
faker-file Documentation

Release 0.14.5

Artur Barseghyan <artur.barseghyan@gmail.com>

Jul 13, 2023

CONTENTS

1	Prerequisites	3
2	Documentation	5
3	Online demos	7
4	Installation	9
4.1	Latest stable version from PyPI	9
4.2	Or development version from GitHub	10
5	Features	11
5.1	Supported file types	11
5.2	Additional providers	12
5.3	Supported file storages	12
6	Usage examples	13
6.1	With Faker	13
6.2	With factory_boy	13
6.2.1	upload/models.py	13
6.2.2	upload/factories.py	14
7	File storages	15
7.1	Usage example with storages	15
7.1.1	FileSystemStorage example	15
7.1.2	PathyFileSystemStorage example	16
7.1.3	AWSS3Storage example	16
8	Testing	17
9	Writing documentation	19
10	License	21
11	Support	23
12	Author	25
13	Project documentation	27
13.1	Quick start	28
13.1.1	Installation	28
13.1.2	Usage	28
13.1.2.1	With Faker	28

13.1.2.2	With <code>factory_boy</code>	30
13.1.2.2.1	upload/models.py	31
13.1.2.2.2	upload/factories.py	32
13.1.2.2.3	Usage example	34
13.2	Recipes	34
13.2.1	When using with <code>Faker</code>	34
13.2.1.1	Imports and initializations	34
13.2.1.2	Create a TXT file with static content	35
13.2.1.3	Create a DOCX file with dynamically generated content	35
13.2.1.4	Create a ZIP file consisting of TXT files with static content	35
13.2.1.5	Create a ZIP file consisting of 3 DOCX files with dynamically generated content	35
13.2.1.6	Create a ZIP file of 9 DOCX files with content generated from template	36
13.2.1.7	Create a nested ZIP file	36
13.2.1.8	Create a ZIP file with variety of different file types within	37
13.2.1.9	Another way to create a ZIP file with variety of different file types within	38
13.2.1.10	Create a EML file consisting of TXT files with static content	39
13.2.1.11	Create a EML file consisting of 3 DOCX files with dynamically generated content	39
13.2.1.12	Create a nested EML file	40
13.2.1.13	Create an EML file with variety of different file types within	40
13.2.1.14	Create a TXT file with static content	41
13.2.1.15	Create a DOCX file with dynamically generated content	41
13.2.1.16	Create a PDF file with predefined template containing dynamic fixtures	42
13.2.1.17	Create a DOCX file with table and image using <code>DynamicTemplate</code>	42
13.2.1.18	Create a ODT file with table and image using <code>DynamicTemplate</code>	43
13.2.1.19	Create a PDF using <i>reportlab</i> generator	46
13.2.1.20	Create a PDF using <i>pdftk</i> generator	46
13.2.1.21	Create a MP3 file	46
13.2.1.22	Create a MP3 file by explicitly specifying MP3 generator class	46
13.2.1.22.1	Google Text-to-Speech	46
13.2.1.22.2	Microsoft Edge Text-to-Speech	47
13.2.1.23	Create a MP3 file with custom MP3 generator	48
13.2.1.24	Pick a random file from a directory given	49
13.2.1.25	Generate a file of a certain size	49
13.2.1.25.1	BIN	49
13.2.1.25.2	TXT	49
13.2.1.26	Generate a lot of files using multiprocessing	50
13.2.1.26.1	Generate 100 DOCX files	50
13.2.1.26.2	Randomize the file format	50
13.2.1.27	Generating files from existing documents using NLP augmentation	51
13.2.1.28	Using <i>raw=True</i> features in tests	53
13.2.1.29	Create a HTML file predefined template	54
13.2.2	When using with Django (and <code>factory_boy</code>)	54
13.2.2.1	Basic example	54
13.2.2.1.1	Imaginary Django model	54
13.2.2.1.2	Correspondent <code>factory_boy</code> factory	55
13.2.2.2	Randomize provider choice	57
13.2.2.3	Use a different locale	58
13.2.2.4	Other Django usage examples	58
13.3	CLI	60
13.3.1	List available provider options	60
13.3.2	List options for a certain provider	61
13.3.3	Generate a file using certain provider	61
13.3.4	Shell auto-completion	61
13.4	Security Policy	62

13.4.1	Reporting a Vulnerability	62
13.4.2	Supported Versions	62
13.5	Contributor Covenant Code of Conduct	62
13.5.1	Our Pledge	62
13.5.2	Our Standards	63
13.5.3	Enforcement Responsibilities	63
13.5.4	Scope	63
13.5.5	Enforcement	63
13.5.6	Enforcement Guidelines	64
13.5.6.1	1. Correction	64
13.5.6.2	2. Warning	64
13.5.6.3	3. Temporary Ban	64
13.5.6.4	4. Permanent Ban	64
13.5.7	Attribution	64
13.6	Contributor guidelines	65
13.6.1	Developer prerequisites	65
13.6.1.1	pre-commit	65
13.6.2	Code standards	65
13.6.3	Requirements	65
13.6.4	Virtual environment	65
13.6.5	Documentation	66
13.6.6	Testing	66
13.6.7	Pull requests	66
13.6.8	Questions	67
13.6.9	Issues	67
13.7	Release history and notes	67
13.7.1	0.14.5	67
13.7.2	0.14.4	67
13.7.3	0.14.3	68
13.7.4	0.14.2	68
13.7.5	0.14.1	68
13.7.6	0.14	68
13.7.7	0.13	68
13.7.8	0.12.6	69
13.7.9	0.12.5	69
13.7.10	0.12.4	69
13.7.11	0.12.3	69
13.7.12	0.12.2	69
13.7.13	0.12.1	69
13.7.14	0.12	69
13.7.15	0.11.5	70
13.7.16	0.11.4	70
13.7.17	0.11.3	70
13.7.18	0.11.2	70
13.7.19	0.11.1	70
13.7.20	0.11	71
13.7.21	0.10.12	71
13.7.22	0.10.11	71
13.7.23	0.10.10	71
13.7.24	0.10.9	71
13.7.25	0.10.8	72
13.7.26	0.10.7	72
13.7.27	0.10.6	72
13.7.28	0.10.5	72

13.7.29	0.10.4	72
13.7.30	0.10.3	73
13.7.31	0.10.2	73
13.7.32	0.10.1	73
13.7.33	0.10	73
13.7.34	0.9.3	73
13.7.35	0.9.2	74
13.7.36	0.9.1	74
13.7.37	0.9	74
13.7.38	0.8	74
13.7.39	0.7	74
13.7.40	0.6	75
13.7.41	0.5	75
13.7.42	0.4	75
13.7.43	0.3	76
13.7.44	0.2	76
13.7.45	0.1	76
13.8	Package	78
13.8.1	faker_file package	78
13.8.1.1	Subpackages	78
13.8.1.1.1	faker_file.providers package	78
13.8.1.1.1.1	Subpackages	78
13.8.1.1.1.2	faker_file.providers.augment_file_from_dir package	78
13.8.1.1.1.3	Subpackages	78
13.8.1.1.1.4	faker_file.providers.augment_file_from_dir.augmenters package	78
13.8.1.1.1.5	Submodules	78
13.8.1.1.1.6	faker_file.providers.augment_file_from_dir.augmenters.base module	78
13.8.1.1.1.7	faker_file.providers.augment_file_from_dir.augmenters.nlpaug_augmenter module	78
13.8.1.1.1.8	Module contents	78
13.8.1.1.1.9	faker_file.providers.augment_file_from_dir.extractors package	78
13.8.1.1.1.10	Submodules	78
13.8.1.1.1.11	faker_file.providers.augment_file_from_dir.extractors.base module	78
13.8.1.1.1.12	faker_file.providers.augment_file_from_dir.extractors.tika_extractor module	78
13.8.1.1.1.13	Module contents	78
13.8.1.1.1.14	Module contents	78
13.8.1.1.1.15	faker_file.providers.helpers package	78
13.8.1.1.1.16	Submodules	78
13.8.1.1.1.17	faker_file.providers.helpers.inner module	78
13.8.1.1.1.18	Module contents	90
13.8.1.1.1.19	faker_file.providers.mixins package	90
13.8.1.1.1.20	Submodules	90
13.8.1.1.1.21	faker_file.providers.mixins.image_mixin module	90
13.8.1.1.1.22	faker_file.providers.mixins.tablular_data_mixin module	90
13.8.1.1.1.23	Module contents	91
13.8.1.1.1.24	faker_file.providers.mp3_file package	91
13.8.1.1.1.25	Subpackages	91
13.8.1.1.1.26	faker_file.providers.mp3_file.generators package	91
13.8.1.1.1.27	Submodules	91
13.8.1.1.1.28	faker_file.providers.mp3_file.generators.base module	91
13.8.1.1.1.29	faker_file.providers.mp3_file.generators.edge_tts_generator module	91
13.8.1.1.1.30	faker_file.providers.mp3_file.generators.gtts_generator module	92
13.8.1.1.1.31	Module contents	92

13.8.1.1.1.32	Module contents	92
13.8.1.1.1.33	Submodules	94
13.8.1.1.1.34	faker_file.providers.bin_file module	94
13.8.1.1.1.35	faker_file.providers.csv_file module	95
13.8.1.1.1.36	faker_file.providers.docx_file module	96
13.8.1.1.1.37	faker_file.providers.eml_file module	98
13.8.1.1.1.38	faker_file.providers.epub_file module	100
13.8.1.1.1.39	faker_file.providers.ico_file module	101
13.8.1.1.1.40	faker_file.providers.jpeg_file module	102
13.8.1.1.1.41	faker_file.providers.odp_file module	103
13.8.1.1.1.42	faker_file.providers.ods_file module	104
13.8.1.1.1.43	faker_file.providers.odt_file module	105
13.8.1.1.1.44	faker_file.providers.pdf_file module	108
13.8.1.1.1.45	faker_file.providers.png_file module	109
13.8.1.1.1.46	faker_file.providers.pptx_file module	110
13.8.1.1.1.47	faker_file.providers.random_file_from_dir module	111
13.8.1.1.1.48	faker_file.providers.rtf_file module	112
13.8.1.1.1.49	faker_file.providers.svg_file module	113
13.8.1.1.1.50	faker_file.providers.tar_file module	114
13.8.1.1.1.51	faker_file.providers.txt_file module	116
13.8.1.1.1.52	faker_file.providers.webp_file module	117
13.8.1.1.1.53	faker_file.providers.xlsx_file module	118
13.8.1.1.1.54	faker_file.providers.zip_file module	119
13.8.1.1.1.55	Module contents	120
13.8.1.1.2	faker_file.storages package	120
13.8.1.1.2.1	Submodules	120
13.8.1.1.2.2	faker_file.storages.aws_s3 module	120
13.8.1.1.2.3	faker_file.storages.azure_cloud_storage module	121
13.8.1.1.2.4	faker_file.storages.base module	121
13.8.1.1.2.5	faker_file.storages.cloud module	122
13.8.1.1.2.6	faker_file.storages.filesystem module	123
13.8.1.1.2.7	faker_file.storages.google_cloud_storage module	123
13.8.1.1.2.8	Module contents	124
13.8.1.1.3	faker_file.tests package	124
13.8.1.1.3.1	Submodules	124
13.8.1.1.3.2	faker_file.tests.test_augment_file_from_dir_provider module	124
13.8.1.1.3.3	faker_file.tests.test_django_integration module	124
13.8.1.1.3.4	faker_file.tests.test_providers module	124
13.8.1.1.3.5	faker_file.tests.test_sqlalchemy_integration module	125
13.8.1.1.3.6	faker_file.tests.test_storages module	125
13.8.1.1.3.7	faker_file.tests.texts module	126
13.8.1.1.3.8	Module contents	126
13.8.1.2	Submodules	126
13.8.1.3	faker_file.base module	126
13.8.1.4	faker_file.constants module	127
13.8.1.5	faker_file.helpers module	127
13.8.1.6	Module contents	127
13.9	Indices and tables	127

Python Module Index **129**

Index **131**

Create files with fake data. In many formats. With no efforts.

PREREQUISITES

All of core dependencies of this package are *MIT* licensed. Most of optional dependencies of this package are *MIT* licensed, while a few are *BSD*-, *Apache 2*- or *GPLv3* licensed. All licenses are mentioned below between the brackets.

- Core package requires Python 3.7, 3.8, 3.9, 3.10 or 3.11.
- [Faker](#) (*MIT*) is the only required dependency.
- [Django](#) (*BSD*) integration with [factory_boy](#) (*MIT*) has been tested with Django 2.2, 3.0, 3.1, 3.2, 4.0 and 4.1.
- DOCX file support requires [python-docx](#) (*MIT*).
- EPUB file support requires [xml2epub](#) (*MIT*) and [Jinja2](#) (*BSD*).
- ICO, JPEG, PNG, SVG and WEBP files support requires [imgkit](#) (*MIT*) and [wkhtmltopdf](#) (*LGPLv3*).
- MP3 file support requires [gTTS](#) (*MIT*) or [edge-tts](#) (*GPLv3*).
- PDF file support requires either combination of [pdftkit](#) (*MIT*) and [wkhtmltopdf](#) (*LGPLv3*), or [reportlab](#) (*BSD*).
- PPTX file support requires [python-pptx](#) (*MIT*).
- ODP file support requires [odfpy](#) (*Apache 2*).
- ODS file support requires [tablib](#) (*MIT*) and [odfpy](#) (*Apache 2*).
- ODT file support requires [odfpy](#) (*Apache 2*).
- XLSX file support requires [tablib](#) (*MIT*) and [openpyxl](#) (*MIT*).
- `PathyFileSystemStorage` storage support requires [pathy](#) (*Apache 2*).
- `AWSS3Storage` storage support requires [pathy](#) (*Apache 2*) and [boto3](#) (*Apache 2*).
- `AzureCloudStorage` storage support requires [pathy](#) (*Apache 2*) and [azure-storage-blob](#) (*MIT*).
- `GoogleCloudStorage` storage support requires [pathy](#) (*Apache 2*) and [google-cloud-storage](#) (*Apache 2*).
- `AugmentFileFromDirProvider` provider requires [nlpaug](#) (*MIT*), [PyTorch](#) (*BSD*), [transformers](#) (*Apache 2*), [numpy](#) (*BSD*), [pandas](#) (*BSD*), [tika](#) (*Apache 2*) and [Apache Tika](#) (*Apache 2*).

DOCUMENTATION

- Documentation is available on [Read the Docs](#).
- For bootstrapping check the [Quick start](#).
- For various ready to use code examples see the [Recipes](#).
- For CLI options see the [CLI](#).
- For guidelines on contributing check the [Contributor guidelines](#).

ONLINE DEMOS

Check the demo(s):

- [REST API demo](#) (based on [faker-file-api](#) REST API)
- [UI frontend demo](#) (based on [faker-file-ui](#) UI frontend)
- [WASM frontend demo](#) (based on [faker-file-wasm](#) WASM frontend)

INSTALLATION

4.1 Latest stable version from PyPI

With all dependencies

```
pip install faker-file[all]
```

Only core

```
pip install faker-file
```

With most common dependencies

Everything, except ML libraries which are required for data augmentation only

```
pip install faker-file[common]
```

With DOCX support

```
pip install faker-file[docx]
```

With EPUB support

```
pip install faker-file[epub]
```

With images support

```
pip install faker-file[images]
```

With PDF support

```
pip install faker-file[pdf]
```

With MP3 support

```
pip install faker-file[mp3]
```

With XLSX support

```
pip install faker-file[xlsx]
```

With ODS support

```
pip install faker-file[ods]
```

With ODT support

```
pip install faker-file[odt]
```

With data augmentation support

```
pip install faker-file[data-augmentation]
```

4.2 Or development version from GitHub

```
pip install https://github.com/barseghyanartur/faker-file/archive/main.tar.gz
```

FEATURES

5.1 Supported file types

- BIN
- CSV
- DOCX
- EML
- EPUB
- ICO
- JPEG
- MP3
- ODS
- ODT
- ODP
- PDF
- PNG
- RTF
- PPTX
- SVG
- TAR
- TXT
- WEBP
- XLSX
- XML
- ZIP

5.2 Additional providers

- **AugmentFileFromDirProvider**: Make an augmented copy of randomly picked file from given directory. The following types are supported : DOCX, EML, EPUB, ODT, PDF, RTF and TXT.
- **GenericFileProvider**: Create files in any format from a predefined template.
- **RandomFileFromDirProvider**: Pick a random file from given directory.

5.3 Supported file storages

- Native file system storage
- AWS S3 storage
- Azure Cloud Storage
- Google Cloud Storage

USAGE EXAMPLES

6.1 With Faker

One way

```
from faker import Faker
from faker_file.providers.txt_file import TxtFileProvider

FAKER = Faker()

file = TxtFileProvider(FAKER).txt_file()
```

If you just need bytes back (instead of creating the file), provide the `raw=True` argument (works with all provider classes and inner functions):

```
raw = TxtFileProvider(FAKER).txt_file(raw=True)
```

Or another

```
from faker import Faker
from faker_file.providers.txt_file import TxtFileProvider

FAKER = Faker()
FAKER.add_provider(TxtFileProvider)

file = FAKER.txt_file()
```

If you just need bytes back:

```
raw = FAKER.txt_file(raw=True)
```

6.2 With factory_boy

6.2.1 upload/models.py

```
from django.db import models

class Upload(models.Model):
```

(continues on next page)

(continued from previous page)

```
# ...  
file = models.FileField()
```

6.2.2 upload/factories.py

Note, that when using `faker-file` with Django and native file system storages, you need to pass your `MEDIA_ROOT` setting as `root_path` value to the chosen file storage as show below.

```
import factory  
from django.conf import settings  
from factory import Faker  
from factory.django import DjangoModelFactory  
from faker_file.providers.docx_file import DocxFileProvider  
from faker_file.storages.filesystem import FileSystemStorage  
  
from upload.models import Upload  
  
FS_STORAGE = FileSystemStorage(  
    root_path=settings.MEDIA_ROOT,  
    rel_path="tmp"  
)  
factory.Faker.add_provider(DocxFileProvider)  
  
class UploadFactory(DjangoModelFactory):  
  
    # ...  
    file = Faker("docx_file", storage=FS_STORAGE)  
  
    class Meta:  
        model = Upload
```

FILE STORAGES

All file operations are delegated to a separate abstraction layer of storages.

The following storages are implemented:

- `FileSystemStorage`: Does not have additional requirements.
- `PathyFileSystemStorage`: Requires `pathy`.
- `AzureCloudStorage`: Requires `pathy` and *Azure* related dependencies.
- `GoogleCloudStorage`: Requires `pathy` and *Google Cloud* related dependencies.
- `AWSS3Storage`: Requires `pathy` and *AWS S3* related dependencies.

7.1 Usage example with storages

7.1.1 *FileSystemStorage* example

Native file system storage. Does not have dependencies.

```
import tempfile
from faker import Faker
from faker_file.providers.txt_file import TxtFileProvider
from faker_file.storages.filesystem import FileSystemStorage

FS_STORAGE = FileSystemStorage(
    root_path=tempfile.gettempdir(), # Use settings.MEDIA_ROOT for Django
    rel_path="tmp",
)

FAKER = Faker()

file = TxtFileProvider(FAKER).txt_file(storage=FS_STORAGE)

FS_STORAGE.exists(file)
```

7.1.2 PathyFileSystemStorage example

Native file system storage. Requires pathy.

```
import tempfile
from pathy import use_fs
from faker import Faker
from faker_file.providers.txt_file import TxtFileProvider
from faker_file.storages.cloud import PathyFileSystemStorage

use_fs(tempfile.gettempdir())
PATHY_FS_STORAGE = PathyFileSystemStorage(
    bucket_name="bucket_name",
    root_path="tmp",
    rel_path="sub-tmp",
)

FAKER = Faker()

file = TxtFileProvider(FAKER).txt_file(storage=PATHY_FS_STORAGE)

PATHY_FS_STORAGE.exists(file)
```

7.1.3 AWSS3Storage example

AWS S3 storage. Requires pathy and boto3.

```
from faker import Faker
from faker_file.providers.txt_file import TxtFileProvider
from faker_file.storages.aws_s3 import AWSS3Storage

S3_STORAGE = AWSS3Storage(
    bucket_name="bucket_name",
    root_path="tmp", # Optional
    rel_path="sub-tmp", # Optional
    # Credentials are optional too. If your AWS credentials are properly
    # set in the ~/.aws/credentials, you don't need to send them
    # explicitly.
    credentials={
        "key_id": "YOUR KEY ID",
        "key_secret": "YOUR KEY SECRET"
    },
)

FAKER = Faker()

file = TxtFileProvider(FAKER).txt_file(storage=S3_STORAGE)

S3_STORAGE.exists(file)
```


TESTING

Simply type:

```
pytest -vrx
```

Or use tox:

```
tox
```

Or use tox to check specific env:

```
tox -e py310-django41
```


WRITING DOCUMENTATION

Keep the following hierarchy.

```
====  
title  
====  
  
header  
=====  
  
sub-header  
-----  
  
sub-sub-header  
~~~~~  
  
sub-sub-sub-header  
^^^^^^  
  
sub-sub-sub-sub-header  
+++++++  
  
sub-sub-sub-sub-sub-header  
*****
```


LICENSE

MIT

SUPPORT

For security issues contact me at the e-mail given in the *Author* section.

For overall issues, go to [GitHub](#).

CHAPTER
TWELVE

AUTHOR

Artur Barseghyan <artur.barseghyan@gmail.com>

PROJECT DOCUMENTATION

Contents:

Table of Contents

- *faker-file*
 - *Prerequisites*
 - *Documentation*
 - *Online demos*
 - *Installation*
 - * *Latest stable version from PyPI*
 - * *Or development version from GitHub*
 - *Features*
 - * *Supported file types*
 - * *Additional providers*
 - * *Supported file storages*
 - *Usage examples*
 - * *With Faker*
 - * *With factory_boy*
 - *upload/models.py*
 - *upload/factories.py*
 - *File storages*
 - * *Usage example with storages*
 - *FileSystemStorage example*
 - *PathyFileSystemStorage example*
 - *AWSS3Storage example*
 - *Testing*
 - *Writing documentation*
 - *License*

- *Support*
- *Author*
- *Project documentation*

13.1 Quick start

13.1.1 Installation

```
pip install faker-file[all]
```

13.1.2 Usage

13.1.2.1 With Faker

Imports and initialization

```
from faker import Faker
from faker_file.providers.augment_file_from_dir import AugmentFileFromDirProvider
from faker_file.providers.bin_file import BinFileProvider
from faker_file.providers.csv_file import CsvFileProvider
from faker_file.providers.docx_file import DocxFileProvider
from faker_file.providers.eml_file import EmlFileProvider
from faker_file.providers.epub_file import EpubFileProvider
from faker_file.providers.ico_file import IcoFileProvider
from faker_file.providers.jpeg_file import JpegFileProvider
from faker_file.providers.mp3_file import Mp3FileProvider
from faker_file.providers.odp_file import OdpFileProvider
from faker_file.providers.ods_file import OdsFileProvider
from faker_file.providers.odt_file import OdtFileProvider
from faker_file.providers.pdf_file import PdfFileProvider
from faker_file.providers.png_file import PngFileProvider
from faker_file.providers.pptx_file import PptxFileProvider
from faker_file.providers.random_file_from_dir import RandomFileFromDirProvider
from faker_file.providers.rtf_file import RtfFileProvider
from faker_file.providers.svg_file import SvgFileProvider
from faker_file.providers.tar_file import TarFileProvider
from faker_file.providers.txt_file import TxtFileProvider
from faker_file.providers.webp_file import WebpFileProvider
from faker_file.providers.xlsx_file import XlsxFileProvider
from faker_file.providers.zip_file import ZipFileProvider

FAKER = Faker()
FAKER.add_provider(AugmentFileFromDirProvider)
FAKER.add_provider(BinFileProvider)
FAKER.add_provider(CsvFileProvider)
FAKER.add_provider(DocxFileProvider)
FAKER.add_provider(EmlFileProvider)
```

(continues on next page)

(continued from previous page)

```

FAKER.add_provider(EpubFileProvider)
FAKER.add_provider(IcoFileProvider)
FAKER.add_provider(JpegFileProvider)
FAKER.add_provider(Mp3FileProvider)
FAKER.add_provider(OdpFileProvider)
FAKER.add_provider(OdsFileProvider)
FAKER.add_provider(OdtFileProvider)
FAKER.add_provider(PdfFileProvider)
FAKER.add_provider(PngFileProvider)
FAKER.add_provider(PptxFileProvider)
FAKER.add_provider(RandomFileFromDirProvider)
FAKER.add_provider(RtfFileProvider)
FAKER.add_provider(SvgFileProvider)
FAKER.add_provider(TarFileProvider)
FAKER.add_provider(TxtFileProvider)
FAKER.add_provider(WebpFileProvider)
FAKER.add_provider(XlsxFileProvider)
FAKER.add_provider(ZipFileProvider)

```

Usage examples

```

augmented_file = FAKER.augment_file_from_dir(source_dir_path="/path/to/source/",)
bin_file = FAKER.bin_file()
csv_file = FAKER.csv_file()
docx_file = FAKER.docx_file()
eml_file = FAKER.eml_file()
epub_file = FAKER.epub_file()
ico_file = FAKER.ico_file()
jpeg_file = FAKER.jpeg_file()
mp3_file = FAKER.mp3_file()
odp_file = FAKER.odp_file()
ods_file = FAKER.ods_file()
odt_file = FAKER.odt_file()
pdf_file = FAKER.pdf_file()
png_file = FAKER.png_file()
pptx_file = FAKER.pptx_file()
random_file = FAKER.random_file_from_dir(source_dir_path="/path/to/source/",)
rtf_file = FAKER.rtf_file()
svg_file = FAKER.svg_file()
tar_file = FAKER.tar_file()
txt_file = FAKER.txt_file()
webp_file = FAKER.webp_file()
xlsx_file = FAKER.xlsx_file()
zip_file = FAKER.zip_file()

```

If you just need bytes back (instead of creating the file), provide the `raw=True` argument (works with all provider classes and inner functions):

```

augmented_raw = FAKER.augment_file_from_dir(
    source_dir_path="/path/to/source/",
    raw=True,
)

```

(continues on next page)

(continued from previous page)

```

bin_raw = FAKER.bin_file(raw=True)
csv_raw = FAKER.csv_file(raw=True)
docx_raw = FAKER.docx_file(raw=True)
eml_raw = FAKER.eml_file(raw=True)
epub_raw = FAKER.epub_file(raw=True)
ico_raw = FAKER.ico_file(raw=True)
jpeg_raw = FAKER.jpeg_file(raw=True)
mp3_raw = FAKER.mp3_file(raw=True)
odp_raw = FAKER.odp_file(raw=True)
ods_raw = FAKER.ods_file(raw=True)
odt_raw = FAKER.odt_file(raw=True)
pdf_raw = FAKER.pdf_file(raw=True)
png_raw = FAKER.png_file(raw=True)
pptx_raw = FAKER.pptx_file(raw=True)
random_raw = FAKER.random_file_from_dir(
    source_dir_path="/path/to/source/",
    raw=True,
)
rtf_raw = FAKER.rtf_file(raw=True)
svg_raw = FAKER.svg_file(raw=True)
tar_raw = FAKER.tar_file(raw=True)
txt_raw = FAKER.txt_file(raw=True)
webp_raw = FAKER.webp_file(raw=True)
xlsx_raw = FAKER.xlsx_file(raw=True)
zip_raw = FAKER.zip_file(raw=True)

```

13.1.2.2 With factory_boy

Imports and initialization

```

from factory import Faker

from faker_file.providers.augment_file_from_dir import AugmentFileFromDirProvider
from faker_file.providers.bin_file import BinFileProvider
from faker_file.providers.csv_file import CsvFileProvider
from faker_file.providers.docx_file import DocxFileProvider
from faker_file.providers.eml_file import EmlFileProvider
from faker_file.providers.epub_file import EpubFileProvider
from faker_file.providers.ico_file import IcoFileProvider
from faker_file.providers.jpeg_file import JpegFileProvider
from faker_file.providers.mp3_file import Mp3FileProvider
from faker_file.providers.odp_file import OdpFileProvider
from faker_file.providers.ods_file import OdsFileProvider
from faker_file.providers.odt_file import OdtFileProvider
from faker_file.providers.pdf_file import PdfFileProvider
from faker_file.providers.png_file import PngFileProvider
from faker_file.providers.pptx_file import PptxFileProvider
from faker_file.providers.random_file_from_dir import RandomFileFromDirProvider
from faker_file.providers.rtf_file import RtfFileProvider
from faker_file.providers.svg_file import SvgFileProvider
from faker_file.providers.tar_file import TarFileProvider

```

(continues on next page)

(continued from previous page)

```

from faker_file.providers.txt_file import TxtFileProvider
from faker_file.providers.webp_file import WebpFileProvider
from faker_file.providers.xlsx_file import XlsxFileProvider
from faker_file.providers.zip_file import ZipFileProvider

Faker.add_provider(AugmentFileFromDirProvider)
Faker.add_provider(BinFileProvider)
Faker.add_provider(CsvFileProvider)
Faker.add_provider(DocxFileProvider)
Faker.add_provider(EmlFileProvider)
Faker.add_provider(EpubFileProvider)
Faker.add_provider(IcoFileProvider)
Faker.add_provider(JpegFileProvider)
Faker.add_provider(Mp3FileProvider)
Faker.add_provider(OdpFileProvider)
Faker.add_provider(OdsFileProvider)
Faker.add_provider(OdtFileProvider)
Faker.add_provider(PdfFileProvider)
Faker.add_provider(PngFileProvider)
Faker.add_provider(PptxFileProvider)
Faker.add_provider(RandomFileFromDirProvider)
Faker.add_provider(RtfFileProvider)
Faker.add_provider(SvgFileProvider)
Faker.add_provider(TarFileProvider)
Faker.add_provider(TxtFileProvider)
Faker.add_provider(WebpFileProvider)
Faker.add_provider(XlsxFileProvider)
Faker.add_provider(ZipFileProvider)

```

13.1.2.2.1 upload/models.py

```

from django.db import models

class Upload(models.Model):
    """Upload model."""

    name = models.CharField(max_length=255, unique=True)
    description = models.TextField(null=True, blank=True)

    # File
    file = models.FileField(null=True)

    class Meta:
        verbose_name = "Upload"
        verbose_name_plural = "Upload"

    def __str__(self):
        return self.name

```

13.1.2.2.2 upload/factories.py

```
from django.conf import settings

from factory import Faker
from factory.django import DjangoModelFactory

from factory import Faker

# Import all needed providers
from faker_file.providers.augment_file_from_dir import (
    AugmentFileFromDirProvider,
)
from faker_file.providers.bin_file import BinFileProvider
from faker_file.providers.csv_file import CsvFileProvider
from faker_file.providers.docx_file import DocxFileProvider
from faker_file.providers.eml_file import EmlFileProvider
from faker_file.providers.epub_file import EpubFileProvider
from faker_file.providers.ico_file import IcoFileProvider
from faker_file.providers.jpeg_file import JpegFileProvider
from faker_file.providers.mp3_file import Mp3FileProvider
from faker_file.providers.odp_file import OdpFileProvider
from faker_file.providers.ods_file import OdsFileProvider
from faker_file.providers.odt_file import OdtFileProvider
from faker_file.providers.pdf_file import PdfFileProvider
from faker_file.providers.png_file import PngFileProvider
from faker_file.providers.pptx_file import PptxFileProvider
from faker_file.providers.random_file_from_dir import (
    RandomFileFromDirProvider,
)
from faker_file.providers.rtf_file import RtfFileProvider
from faker_file.providers.svg_file import SvgFileProvider
from faker_file.providers.tar_file import TarFileProvider
from faker_file.providers.txt_file import TxtFileProvider
from faker_file.providers.webp_file import WebpFileProvider
from faker_file.providers.xlsx_file import XlsxFileProvider
from faker_file.providers.zip_file import ZipFileProvider

# Import file storage, because we need to customize things in
# order for it to work with Django.
from faker_file.storages.filesystem import FileSystemStorage

from upload.models import Upload

# Add all needed providers
Faker.add_provider(AugmentFileFromDirProvider)
Faker.add_provider(BinFileProvider)
Faker.add_provider(CsvFileProvider)
Faker.add_provider(DocxFileProvider)
Faker.add_provider(EmlFileProvider)
Faker.add_provider(EpubFileProvider)
Faker.add_provider(IcoFileProvider)
```

(continues on next page)

(continued from previous page)

```

Faker.add_provider(JpegFileProvider)
Faker.add_provider(Mp3FileProvider)
Faker.add_provider(OdpFileProvider)
Faker.add_provider(OdsFileProvider)
Faker.add_provider(OdtFileProvider)
Faker.add_provider(PdfFileProvider)
Faker.add_provider(PngFileProvider)
Faker.add_provider(PptxFileProvider)
Faker.add_provider(RandomFileFromDirProvider)
Faker.add_provider(RtfFileProvider)
Faker.add_provider(SvgFileProvider)
Faker.add_provider(TarFileProvider)
Faker.add_provider(TxtFileProvider)
Faker.add_provider(WebpFileProvider)
Faker.add_provider(XlsxFileProvider)
Faker.add_provider(ZipFileProvider)

# Define a file storage.
STORAGE = FileSystemStorage(
    root_path=settings.MEDIA_ROOT,
    rel_path="tmp"
)

# Define the upload factory
class UploadFactory(DjangoModelFactory):
    """Upload factory."""

    name = Faker("text", max_nb_chars=100)
    description = Faker("text", max_nb_chars=1000)

    class Meta:
        model = Upload

    class Params:
        bin_file = Trait(file=Faker("bin_file", storage=STORAGE))
        csv_file = Trait(file=Faker("csv_file", storage=STORAGE))
        docx_file = Trait(file=Faker("docx_file", storage=STORAGE))
        eml_file = Trait(file=Faker("eml_file", storage=STORAGE))
        epub_file = Trait(file=Faker("epub_file", storage=STORAGE))
        ico_file = Trait(file=Faker("ico_file", storage=STORAGE))
        jpeg_file = Trait(file=Faker("jpeg_file", storage=STORAGE))
        mp3_file = Trait(file=Faker("mp3_file", storage=STORAGE))
        odp_file = Trait(file=Faker("odp_file", storage=STORAGE))
        ods_file = Trait(file=Faker("ods_file", storage=STORAGE))
        odt_file = Trait(file=Faker("odt_file", storage=STORAGE))
        pdf_file = Trait(file=Faker("pdf_file", storage=STORAGE))
        png_file = Trait(file=Faker("png_file", storage=STORAGE))
        pptx_file = Trait(file=Faker("pptx_file", storage=STORAGE))
        rtf_file = Trait(file=Faker("rtf_file", storage=STORAGE))
        svg_file = Trait(file=Faker("svg_file", storage=STORAGE))
        tar_file = Trait(file=Faker("tar_file", storage=STORAGE))
        txt_file = Trait(file=Faker("txt_file", storage=STORAGE))

```

(continues on next page)

(continued from previous page)

```
webp_file = Trait(file=Faker("webp_file", storage=STORAGE))
xlsx_file = Trait(file=Faker("xlsx_file", storage=STORAGE))
zip_file = Trait(file=Faker("zip_file", storage=STORAGE))
```

13.1.2.2.3 Usage example

```
UploadFactory(bin_file=True) # Upload with BIN file
UploadFactory(docx_file=True) # Upload with DOCX file
UploadFactory(jpeg_file=True) # Upload with JPEG file
UploadFactory(zip_file=True) # Upload with ZIP file
```

13.2 Recipes

13.2.1 When using with Faker

When using with Faker, there are two ways of using the providers.

13.2.1.1 Imports and initializations

One way

```
from faker import Faker
from faker_file.providers.bin_file import BinFileProvider
from faker_file.providers.docx_file import DocxFileProvider
from faker_file.providers.pdf_file import PdfFileProvider
from faker_file.providers.pptx_file import PptxFileProvider
from faker_file.providers.txt_file import TxtFileProvider
from faker_file.providers.zip_file import ZipFileProvider

FAKER = Faker()

# Usage example
file = TxtFileProvider(FAKER).txt_file(content="Lorem ipsum")
```

Or another

```
from faker import Faker
from faker_file.providers.docx_file import DocxFileProvider
from faker_file.providers.pdf_file import PdfFileProvider
from faker_file.providers.pptx_file import PptxFileProvider
from faker_file.providers.txt_file import TxtFileProvider
from faker_file.providers.zip_file import ZipFileProvider

FAKER = Faker()
FAKER.add_provider(DocxFileProvider)
FAKER.add_provider(PdfFileProvider)
FAKER.add_provider(PptxFileProvider)
```

(continues on next page)

(continued from previous page)

```
FAKER.add_provider(TxtFileProvider)
FAKER.add_provider(ZipFileProvider)

# Usage example
file = FAKER.txt_file(content="Lorem ipsum")
```

Throughout documentation we will be mixing these approaches.

13.2.1.2 Create a TXT file with static content

- Content of the file is Lorem ipsum.

```
file = TxtFileProvider(FAKER).txt_file(content="Lorem ipsum")
```

13.2.1.3 Create a DOCX file with dynamically generated content

- Content is generated dynamically.
- Content is limited to 1024 chars.
- Wrap lines after 80 chars.
- Prefix the filename with zzz.

```
file = DocxFileProvider(FAKER).docx_file(
    prefix="zzz",
    max_nb_chars=1_024,
    wrap_chars_after=80,
)
```

13.2.1.4 Create a ZIP file consisting of TXT files with static content

- 5 TXT files in the ZIP archive (default value is 5).
- Content of all files is Lorem ipsum.

```
file = ZipFileProvider(FAKER).zip_file(
    options={"create_inner_file_args": {"content": "Lorem ipsum"}}
)
```

13.2.1.5 Create a ZIP file consisting of 3 DOCX files with dynamically generated content

- 3 DOCX files in the ZIP archive.
- Content is generated dynamically.
- Content is limited to 1024 chars.
- Prefix the filenames in archive with xxx_.
- Prefix the filename of the archive itself with zzz.
- Inside the ZIP, put all files in directory yyy.

```
from faker_file.providers.helpers.inner import create_inner_docx_file
file = ZipFileProvider(FAKER).zip_file(
    prefix="zzz",
    options={
        "count": 3,
        "create_inner_file_func": create_inner_docx_file,
        "create_inner_file_args": {
            "prefix": "xxx_",
            "max_nb_chars": 1_024,
        },
        "directory": "yyy",
    }
)
```

13.2.1.6 Create a ZIP file of 9 DOCX files with content generated from template

- 9 DOCX files in the ZIP archive.
- Content is generated dynamically from given template.

```
from faker_file.providers.helpers.inner import create_inner_docx_file

TEMPLATE = "Hey {{name}},\n{{text}},\nBest regards\n{{name}}"

file = ZipFileProvider(FAKER).zip_file(
    options={
        "count": 9,
        "create_inner_file_func": create_inner_docx_file,
        "create_inner_file_args": {
            "content": TEMPLATE,
        },
    }
)
```

13.2.1.7 Create a nested ZIP file

Create a ZIP file which contains 5 ZIP files which contain 5 ZIP files which contain 5 DOCX files.

- 5 ZIP files in the ZIP archive.
- Content is generated dynamically.
- Prefix the filenames in archive with `nested_level_1_`.
- Prefix the filename of the archive itself with `nested_level_0_`.
- Each of the ZIP files inside the ZIP file in their turn contains 5 other ZIP files, prefixed with `nested_level_2_`, which in their turn contain 5 DOCX files.

```
from faker_file.providers.helpers.inner import (
    create_inner_docx_file,
    create_inner_zip_file,
)
```

(continues on next page)

(continued from previous page)

```

file = ZipFileProvider(FAKER).zip_file(
    prefix="nested_level_0_",
    options={
        "create_inner_file_func": create_inner_zip_file,
        "create_inner_file_args": {
            "prefix": "nested_level_1_",
            "options": {
                "create_inner_file_func": create_inner_zip_file,
                "create_inner_file_args": {
                    "prefix": "nested_level_2_",
                    "options": {
                        "create_inner_file_func": create_inner_docx_file,
                    }
                }
            }
        },
    },
)

```

13.2.1.8 Create a ZIP file with variety of different file types within

- 50 files in the ZIP archive (limited to DOCX, EPUB and TXT types).
- Content is generated dynamically.
- Prefix the filename of the archive itself with zzz_archive_.
- Inside the ZIP, put all files in directory zzz.

```

from faker import Faker
from faker_file.providers.helpers.inner import (
    create_inner_docx_file,
    create_inner_epub_file,
    create_inner_txt_file,
    fuzzy_choice_create_inner_file,
)
from faker_file.providers.zip_file import ZipFileProvider
from faker_file.storages.filesystem import FileSystemStorage

FAKER = Faker()
STORAGE = FileSystemStorage()

kwargs = {"storage": STORAGE, "generator": FAKER}
file = ZipFileProvider(FAKER).zip_file(
    prefix="zzz_archive_",
    options={
        "count": 50,
        "create_inner_file_func": fuzzy_choice_create_inner_file,
        "create_inner_file_args": {
            "func_choices": [
                (create_inner_docx_file, kwargs),
                (create_inner_epub_file, kwargs),
            ]
        }
    }
)

```

(continues on next page)

(continued from previous page)

```
        (create_inner_txt_file, kwargs),
    ],
    },
    "directory": "zzz",
}
)
```

13.2.1.9 Another way to create a ZIP file with variety of different file types within

- 3 files in the ZIP archive (1 DOCX, and 2 XML types).
- Content is generated dynamically.
- Filename of the archive itself is `alice-looking-through-the-glass.zip`.
- Files inside the archive have fixed name (passed with `basename` argument).

```
from faker import Faker
from faker_file.providers.helpers.inner import (
    create_inner_docx_file,
    create_inner_xml_file,
    list_create_inner_file,
)
from faker_file.providers.zip_file import ZipFileProvider
from faker_file.storages.filesystem import FileSystemStorage

FAKER = Faker()
STORAGE = FileSystemStorage()

kwargs = {"storage": STORAGE, "generator": FAKER}
file = ZipFileProvider(FAKER).zip_file(
    basename="alice-looking-through-the-glass",
    options={
        "create_inner_file_func": list_create_inner_file,
        "create_inner_file_args": {
            "func_list": [
                (create_inner_docx_file, {"basename": "doc"}),
                (create_inner_xml_file, {"basename": "doc_metadata"}),
                (create_inner_xml_file, {"basename": "doc_isbn"}),
            ],
        },
    },
)
)
```

Note, that `count` argument (not shown in the example, but commonly accepted by inner functions) will be simply ignored here.

13.2.1.10 Create a EML file consisting of TXT files with static content

- 5 TXT files in the EML email (default value is 5).
- Content of all files is Lorem ipsum.

```
from faker import Faker
from faker_file.providers.eml_file import EmlFileProvider

FAKER = Faker()

file = EmlFileProvider(FAKER).eml_file(
    options={"create_inner_file_args": {"content": "Lorem ipsum"}}
)
```

13.2.1.11 Create a EML file consisting of 3 DOCX files with dynamically generated content

- 3 DOCX files in the EML email.
- Content is generated dynamically.
- Content is limited to 1024 chars.
- Prefix the filenames in email with xxx_.
- Prefix the filename of the email itself with zzz.

```
from faker import Faker
from faker_file.providers.eml_file import EmlFileProvider
from faker_file.providers.helpers.inner import create_inner_docx_file

FAKER = Faker()

file = EmlFileProvider(FAKER).eml_file(
    prefix="zzz",
    options={
        "count": 3,
        "create_inner_file_func": create_inner_docx_file,
        "create_inner_file_args": {
            "prefix": "xxx_",
            "max_nb_chars": 1_024,
        },
    },
)
```

13.2.1.12 Create a nested EML file

Create a EML file which contains 5 EML files which contain 5 EML files which contain 5 DOCX files.

- 5 EML files in the EML file.
- Content is generated dynamically.
- Prefix the filenames in EML email with `nested_level_1_`.
- Prefix the filename of the EML email itself with `nested_level_0_`.
- Each of the EML files inside the EML file in their turn contains 5 other EML files, prefixed with `nested_level_2_`, which in their turn contain 5 DOCX files.

```
from faker import Faker
from faker_file.providers.eml_file import EmlFileProvider
from faker_file.providers.helpers.inner import (
    create_inner_docx_file,
    create_inner_eml_file,
)

FAKER = Faker()

file = EmlFileProvider(FAKER).eml_file(
    prefix="nested_level_0_",
    options={
        "create_inner_file_func": create_inner_eml_file,
        "create_inner_file_args": {
            "prefix": "nested_level_1_",
            "options": {
                "create_inner_file_func": create_inner_eml_file,
                "create_inner_file_args": {
                    "prefix": "nested_level_2_",
                    "options": {
                        "create_inner_file_func": create_inner_docx_file,
                    }
                }
            }
        },
    },
)
```

13.2.1.13 Create an EML file with variety of different file types within

- 10 files in the EML file (limited to DOCX, EPUB and TXT types).
- Content is generated dynamically.
- Prefix the filename of the EML itself with `zzz`.

```
from faker import Faker
from faker_file.providers.helpers.inner import (
    create_inner_docx_file,
    create_inner_epub_file,
    create_inner_txt_file,
```

(continues on next page)

(continued from previous page)

```

        fuzzy_choice_create_inner_file,
    )
    from faker_file.providers.eml_file import EmlFileProvider
    from faker_file.storages.filesystem import FileSystemStorage

    FAKER = Faker()
    STORAGE = FileSystemStorage()

    kwargs = {"storage": STORAGE, "generator": FAKER}

    file = EmlFileProvider(FAKER).eml_file(
        prefix="zzz",
        options={
            "count": 10,
            "create_inner_file_func": fuzzy_choice_create_inner_file,
            "create_inner_file_args": {
                "func_choices": [
                    (create_inner_docx_file, kwargs),
                    (create_inner_epub_file, kwargs),
                    (create_inner_txt_file, kwargs),
                ],
            },
        },
    )

```

13.2.1.14 Create a TXT file with static content

```
file = FAKER.txt_file(content="Lorem ipsum dolor sit amet")
```

13.2.1.15 Create a DOCX file with dynamically generated content

- Content is generated dynamically.
- Content is limited to 1024 chars.
- Wrap lines after 80 chars.
- Prefix the filename with zzz.

```

file = FAKER.docx_file(
    prefix="zzz",
    max_nb_chars=1_024,
    wrap_chars_after=80,
)

```

13.2.1.16 Create a PDF file with predefined template containing dynamic fixtures

- Content template is predefined and contains dynamic fixtures.
- Wrap lines after 80 chars.

```
TEMPLATE = """
{{date}} {{city}}, {{country}}

Hello {{name}},

{{text}} {{text}} {{text}}

{{text}} {{text}} {{text}}

{{text}} {{text}} {{text}}

Address: {{address}}

Best regards,

{{name}}
{{address}}
{{phone_number}}
"""

file = FAKER.pdf_file(content=TEMPLATE, wrap_chars_after=80)
```

13.2.1.17 Create a DOCX file with table and image using DynamicTemplate

When pre-defined templating and dynamic fixtures are not enough and full control is needed, you can use DynamicTemplate wrapper. It takes a list of content modifiers (tuples): (func: Callable, kwargs: dict). Each callable should accept the following arguments:

- provider: Faker Generator instance or Faker instance.
- document: Document instance. Implementation specific.
- data: Dictionary. Used primarily for observability.
- counter: Integer. Index number of the content modifier.
- ****kwargs**: Dictionary. Useful to pass implementation-specific arguments.

The following example shows how to generate a DOCX file with table and image.

```
from io import BytesIO

from faker import Faker
from faker_file.base import DynamicTemplate
from faker_file.providers.docx_file import DocxFileProvider
from faker_file.providers.jpeg_file import JpegFileProvider

def docx_add_table(provider, document, data, counter, **kwargs):
    """Callable responsible for the table generation."""
    table = document.add_table(
```

(continues on next page)

(continued from previous page)

```

        kwargs.get("rows", 3),
        kwargs.get("cols", 4),
    )
    # Modifications of `data` is not required for generation
    # of the file, but is useful for when you want to get
    # the text content of the file.
    data.setdefault("content_modifiers", {})
    data["content_modifiers"].setdefault("add_table", {})
    data["content_modifiers"]["add_table"].setdefault(counter, [])

    for row in table.rows:
        for cell in row.cells:
            text = provider.generator.paragraph()
            cell.text = text
            # Useful when you want to get the text content of the file.
            data["content_modifiers"]["add_table"][counter].append(text)
            data["content"] += ("\r\n" + text)

def docx_add_picture(provider, document, data, counter, **kwargs):
    """Callable responsible for the picture generation."""
    jpeg_file = JpegFileProvider(provider.generator).jpeg_file(raw=True)
    document.add_picture(BytesIO(jpeg_file))

    # Modifications of `data` is not required for generation
    # of the file, but is useful for when you want to get
    # the text content of the file.
    data.setdefault("content_modifiers", {})
    data["content_modifiers"].setdefault("add_picture", {})
    data["content_modifiers"]["add_picture"].setdefault(counter, [])
    data["content_modifiers"]["add_picture"][counter].append(
        jpeg_file.data["content"]
    )
    data["content"] += ("\r\n" + jpeg_file.data["content"])

file = DocxFileProvider(Faker()).docx_file(
    content=DynamicTemplate([(docx_add_table, {}), (docx_add_picture, {})])
)

```

13.2.1.18 Create a ODT file with table and image using DynamicTemplate

Similarly to previous section, the following example shows how to generate an ODT file with table and image.

```

from faker import Faker
from faker_file.providers.odt_file import OdtFileProvider
from faker_file.base import DynamicTemplate
from faker_file.providers.jpeg_file import JpegFileProvider
from odf.draw import Frame, Image
from odf.style import (
    Style, TextProperties,

```

(continues on next page)

(continued from previous page)

```

    TableColumnProperties,
    TableRowProperties,
    TableCellProperties,
    GraphicProperties,
)
from odf.table import Table, TableRow, TableCell, TableColumn
from odf.text import P

FAKER = Faker()

def odt_add_table(provider, document, data, counter, **kwargs):
    """Callable responsible for the table generation."""
    table = Table()
    rows = kwargs.get("rows", 3)
    cols = kwargs.get("cols", 4)
    table_col_style = Style(name="TableColumn", family="table-column")
    table_col_style.addElement(
        TableColumnProperties(columnwidth="2cm")
    )
    document.automaticstyles.addElement(table_col_style)

    table_row_style = Style(name="TableRow", family="table-row")
    table_row_style.addElement(TableRowProperties(rowheight="1cm"))
    document.automaticstyles.addElement(table_row_style)

    # Modifications of `data` is not required for generation
    # of the file, but is useful for when you want to get
    # the text content of the file.
    data.setdefault("content_modifiers", {})
    data["content_modifiers"].setdefault("add_table", {})
    data["content_modifiers"]["add_table"].setdefault(counter, [])

    table_cell_style = Style(name="TableCell", family="table-cell")
    table_cell_style.addElement(
        TableCellProperties(
            padding="0.1cm", border="0.05cm solid #000000"
        )
    )
    document.automaticstyles.addElement(table_cell_style)

    # Create table
    table = Table()
    for i in range(rows):
        table.addElement(TableColumn(stylename=table_col_style))

    for row in range(cols):
        tr = TableRow(stylename=table_row_style)
        table.addElement(tr)
        for col in range(4):
            tc = TableCell(stylename=table_cell_style)
            tr.addElement(tc)

```

(continues on next page)

(continued from previous page)

```

        text = provider.generator.paragraph()
        p = P(text=text)
        tc.addElement(p)
        # Useful when you want to get the text content of the file.
        data["content_modifiers"]["add_table"][counter].append(text)
        data["content"] += "\r\n" + text

    document.text.addElement(table)

def odt_add_picture(provider, document, data, counter, **kwargs):
    """Callable responsible for the picture generation."""
    width = kwargs.get("width", "10cm")
    height = kwargs.get("height", "5cm")
    paragraph = P()
    document.text.addElement(paragraph)
    jpeg_file = JpegFileProvider(provider.generator).jpeg_file()
    image_data = jpeg_file.data["content"]
    image_frame = Frame(
        width=width,
        height=height,
        x="56pt",
        y="56pt",
        anchortype="paragraph",
    )
    href = document.addPicture(jpeg_file.data["filename"])
    image_frame.addElement(Image(href=href))
    paragraph.addElement(image_frame)

    # Modifications of `data` is not required for generation
    # of the file, but is useful for when you want to get
    # the text content of the file.
    data["content"] += "\r\n" + jpeg_file.data["content"]
    data.setdefault("content_modifiers", {})
    data["content_modifiers"].setdefault("add_picture", {})
    data["content_modifiers"]["add_picture"].setdefault(counter, [])
    data["content_modifiers"]["add_picture"][counter].append(
        jpeg_file.data["content"]
    )

file = OdtFileProvider(FAKER).odt_file(
    content=DynamicTemplate([(odt_add_table, {}), (odt_add_picture, {})])
)

```

13.2.1.19 Create a PDF using *reportlab* generator

```
from faker_file.providers.pdf_file.generators.reportlab_generator import (
    ReportlabPdfGenerator,
)

file = FAKER.pdf_file(pdf_generator_cls=ReportlabPdfGenerator)
```

13.2.1.20 Create a PDF using *pdftk* generator

Note, that at the moment, *pdftk* is the default generator. However, you could set it explicitly as follows:

```
from faker_file.providers.pdf_file.generators.pdftk_generator import (
    PdftkPdfGenerator,
)

file = FAKER.pdf_file(pdf_generator_cls=PdftkPdfGenerator)
```

13.2.1.21 Create a MP3 file

```
file = FAKER.mp3_file()
```

13.2.1.22 Create a MP3 file by explicitly specifying MP3 generator class

13.2.1.22.1 Google Text-to-Speech

```
from faker import Faker
from faker_file.providers.mp3_file import Mp3FileProvider
from faker_file.providers.mp3_file.generators.gtts_generator import (
    GttsMp3Generator,
)

FAKER = Faker()

file = Mp3FileProvider(FAKER).mp3_file(mp3_generator_cls=GttsMp3Generator)
```

You can tune arguments too:

```
from faker import Faker
from faker_file.providers.mp3_file import Mp3FileProvider
from faker_file.providers.mp3_file.generators.gtts_generator import (
    GttsMp3Generator,
)

FAKER = Faker()

file = Mp3FileProvider(FAKER).mp3_file(
    mp3_generator_cls=GttsMp3Generator,
    mp3_generator_kwargs={
```

(continues on next page)

(continued from previous page)

```

        "lang": "en",
        "tld": "co.uk",
    }
)

```

Refer to <https://gtts.readthedocs.io/en/latest/module.html#languages-gtts-lang> for list of accepted values for `lang` argument.

Refer to <https://gtts.readthedocs.io/en/latest/module.html#localized-accents> for list of accepted values for `tld` argument.

13.2.1.22.2 Microsoft Edge Text-to-Speech

```

from faker import Faker
from faker_file.providers.mp3_file import Mp3FileProvider
from faker_file.providers.mp3_file.generators.edge_tts_generator import (
    EdgeTtsMp3Generator,
)

FAKER = Faker()

file = Mp3FileProvider(FAKER).mp3_file(mp3_generator_cls=EdgeTtsMp3Generator)

```

You can tune arguments too:

```

from faker import Faker
from faker_file.providers.mp3_file import Mp3FileProvider
from faker_file.providers.mp3_file.generators.edge_tts_generator import (
    EdgeTtsMp3Generator,
)

FAKER = Faker()

file = Mp3FileProvider(FAKER).mp3_file(
    mp3_generator_cls=EdgeTtsMp3Generator,
    mp3_generator_kwargs={
        "voice": "en-GB-LibbyNeural",
    }
)

```

Run `edge-tts -l` from terminal for list of available voices.

13.2.1.23 Create a MP3 file with custom MP3 generator

Default MP3 generator class is `GttsMp3Generator` which uses Google Text-to-Speech services to generate an MP3 file from given or randomly generated text. It does not require additional services to run and the only dependency here is the `gtts` package. You can however implement your own custom MP3 generator class and pass it to the `mp3_file` method in `mp3_generator_cls` argument instead of the default `GttsMp3Generator`. Read about quotas of Google Text-to-Speech services [here](#).

Usage with custom MP3 generator class.

```
# Imaginary `marytts` Python library
from marytts import MaryTTS

# Import BaseMp3Generator
from faker_file.providers.base.mp3_generator import (
    BaseMp3Generator,
)

# Define custom MP3 generator
class MaryTtsMp3Generator(BaseMp3Generator):

    locale: str = "cmu-rms-hsmm"
    voice: str = "en_US"

    def handle_kwargs(self, **kwargs) -> None:
        # Since it's impossible to unify all TTS systems it's allowed
        # to pass arbitrary arguments to the `BaseMp3Generator`
        # constructor. Each implementation class contains its own
        # additional tuning arguments. Check the source code of the
        # implemented MP3 generators as an example.
        if "locale" in kwargs:
            self.locale = kwargs["locale"]
        if "voice" in kwargs:
            self.voice = kwargs["voice"]

    def generate(self) -> bytes:
        # Your implementation here. Note, that `self.content`
        # in this context is the text to make MP3 from.
        # `self.generator` would be the `Faker` or `Generator`
        # instance from which you could extract information on
        # active locale.
        # What comes below is pseudo implementation.
        mary_tts = MaryTTS(locale=self.locale, voice=self.voice)
        return mary_tts.synth_mp3(self.content)

# Generate MP3 file from random text
file = FAKER.mp3_file(
    mp3_generator_cls=MaryTtsMp3Generator,
)
```

See exact implementation of `marytts_mp3_generator` in the examples.

13.2.1.24 Pick a random file from a directory given

- Create an exact copy of the randomly picked file under a different name.
- Prefix of the destination file would be zzz.
- `source_dir_path` is the absolute path to the directory to pick files from.

```
from faker_file.providers.random_file_from_dir import (
    RandomFileFromDirProvider,
)

file = RandomFileFromDirProvider(FAKER).random_file_from_dir(
    source_dir_path="/tmp/tmp/",
    prefix="zzz",
)
```

13.2.1.25 Generate a file of a certain size

The only two file types for which it is easy to foresee the file size are BIN and TXT. Note, that size of BIN files is always exact, while for TXT it is approximate.

13.2.1.25.1 BIN

```
file = BinFileProvider(FAKER).bin_file(length=1024**2) # 1 Mb
file = BinFileProvider(FAKER).bin_file(length=3*1024**2) # 3 Mb
file = BinFileProvider(FAKER).bin_file(length=10*1024**2) # 10 Mb

file = BinFileProvider(FAKER).bin_file(length=1024) # 1 Kb
file = BinFileProvider(FAKER).bin_file(length=3*1024) # 3 Kb
file = BinFileProvider(FAKER).bin_file(length=10*1024) # 10 Kb
```

13.2.1.25.2 TXT

```
file = TxtFileProvider(FAKER).txt_file(max_nb_chars=1024**2) # 1 Mb
file = TxtFileProvider(FAKER).txt_file(max_nb_chars=3*1024**2) # 3 Mb
file = TxtFileProvider(FAKER).txt_file(max_nb_chars=10*1024**2) # 10 Mb

file = TxtFileProvider(FAKER).txt_file(max_nb_chars=1024) # 1 Kb
file = TxtFileProvider(FAKER).txt_file(max_nb_chars=3*1024) # 3 Kb
file = TxtFileProvider(FAKER).txt_file(max_nb_chars=10*1024) # 10 Kb
```

13.2.1.26 Generate a lot of files using multiprocessing

13.2.1.26.1 Generate 100 DOCX files

- Use template.
- Generate 100 DOCX files.

```
from multiprocessing import Pool
from faker import Faker
from faker_file.providers.helpers.inner import create_inner_docx_file
from faker_file.storages.filesystem import FileSystemStorage

FAKER = Faker()
STORAGE = FileSystemStorage()

# Document template
TEMPLATE = "Hey {{name}}, \n{{text}}, \nBest regards \n{{name}}"

with Pool(processes=8) as pool:
    for _ in range(100): # Number of times we want to run our function
        pool.apply_async(
            create_inner_docx_file,
            # Apply async doesn't support kwargs. We have to pass all
            # arguments.
            [STORAGE, "mp", FAKER, None, None, TEMPLATE],
        )
    pool.close()
    pool.join()
```

13.2.1.26.2 Randomize the file format

```
from multiprocessing import Pool

from faker import Faker
from faker_file.providers.helpers.inner import (
    create_inner_docx_file,
    create_inner_epub_file,
    create_inner_pdf_file,
    create_inner_txt_file,
    fuzzy_choice_create_inner_file,
)
from faker_file.storages.filesystem import FileSystemStorage

FAKER = Faker()
STORAGE = FileSystemStorage()

# Document template
TEMPLATE = """
{{date}} {{city}}, {{country}}

Hello {{name}},
```

(continues on next page)

(continued from previous page)

```

{{text}} {{text}} {{text}}

{{text}} {{text}} {{text}}

{{text}} {{text}} {{text}}

Address: {{address}}

Best regards,

{{name}}
{{address}}
{{phone_number}}
"""

kwargs = {"storage": STORAGE, "generator": FAKER, "content": TEMPLATE}

with Pool(processes=8) as pool:
    for _ in range(100): # Number of times we want to run our function
        pool.apply_async(
            fuzzy_choice_create_inner_file,
            [
                [
                    (create_inner_docx_file, kwargs),
                    (create_inner_epub_file, kwargs),
                    (create_inner_pdf_file, kwargs),
                    (create_inner_txt_file, kwargs),
                ]
            ],
        )
    pool.close()
    pool.join()

```

13.2.1.27 Generating files from existing documents using NLP augmentation

See the following example:

```

from faker import Faker
from faker_file.providers.augment_file_from_dir import (
    AugmentFileFromDirProvider,
)

FAKER = Faker()

file = AugmentFileFromDirProvider(FAKER).augment_file_from_dir(
    source_dir_path="/path/to/source/",
)

```

Generated file will resemble text of the original document, but will not be the same. This is useful when you don't want to test on text generated by Faker, but rather something that makes more sense for your use case, still want to ensure uniqueness of the documents.

The following file types are supported:

- DOCX
- EML
- EPUB
- ODT
- PDF
- RTF
- TXT

By default, all supported files are eligible for random selection. You could however narrow that list by providing `extensions` argument:

```
file = AugmentFileFromDirProvider(FAKER).augment_file_from_dir(  
    source_dir_path="/path/to/source/",  
    extensions={"docx", "pdf"}, # Pick only DOCX or PDF  
)
```

By default `bert-base-multilingual-cased` model is used, which is pretrained on the top 104 languages with the largest Wikipedia using a masked language modeling (MLM) objective. If you want to use a different model, specify the proper identifier in the `model_path` argument. Some well working options for `model_path` are:

- `bert-base-multilingual-cased`
- `bert-base-multilingual-uncased`
- `bert-base-cased`
- `bert-base-uncased`
- `bert-base-german-cased`
- `GroNLP/bert-base-dutch-cased`

```
from faker_file.providers.augment_file_from_dir.augmenters import (  
    nlpaug_augmenter  
)  
  
file = AugmentFileFromDirProvider(FAKER).augment_file_from_dir(  
    text_augmenter_cls=(  
        nlpaug_augmenter.ContextualWordEmbeddingsAugmenter  
    ),  
    text_augmenter_kwargs={  
        "model_path": "bert-base-cased",  
        "action": "substitute", # or "insert"  
    }  
)
```

Refer to [nlpaug docs](#) and check *Textual augmenters* examples.

13.2.1.28 Using `raw=True` features in tests

If you pass `raw=True` argument to any provider or inner function, instead of creating a file, you will get bytes back (or to be totally correct, bytes-like object `BytesValue`, which is basically bytes enriched with meta-data). You could then use the bytes content of the file to build a test payload as shown in the example test below:

```
import os
from io import BytesIO

from django.test import TestCase
from django.urls import reverse
from faker import Faker
from faker_file.providers.docx_file import DocxFileProvider
from rest_framework.status import HTTP_201_CREATED
from upload.models import Upload

FAKER = Faker()
FAKER.add_provider(DocxFileProvider)

class UploadTestCase(TestCase):
    """Upload test case."""

    def test_create_docx_upload(self) -> None:
        """Test create an Upload."""
        url = reverse("api:upload-list")

        raw = FAKER.docx_file(raw=True)
        test_file = BytesIO(raw)
        test_file.name = os.path.basename(raw.data["filename"])

        payload = {
            "name": FAKER.word(),
            "description": FAKER.paragraph(),
            "file": test_file,
        }

        response = self.client.post(url, payload, format="json")

        # Test if request is handled properly (HTTP 201)
        self.assertEqual(response.status_code, HTTP_201_CREATED)

        test_upload = Upload.objects.get(id=response.data["id"])

        # Test if the name is properly recorded
        self.assertEqual(str(test_upload.name), payload["name"])

        # Test if file name recorded properly
        self.assertEqual(str(test_upload.file.name), test_file.name)
```

13.2.1.29 Create a HTML file predefined template

If you want to generate a file in a format that is not (yet) supported, you can try to use `GenericFileProvider`. In the following example, an HTML file is generated from a template.

```
from faker import Faker
from faker_file.providers.generic_file import GenericFileProvider

file = GenericFileProvider(Faker()).generic_file(
    content="<html><body><p>{{text}}</p></body></html>",
    extension="html",
)
```

13.2.2 When using with Django (and factory_boy)

When used with Django (to generate fake data with `factory_boy` factories), the `root_path` argument of the correspondent file storage shall be provided. Otherwise (although no errors will be triggered) the generated files will reside outside the `MEDIA_ROOT` directory (by default in `/tmp/` on Linux) and further operations with those files through Django will cause `SuspiciousOperation` exception.

13.2.2.1 Basic example

13.2.2.1.1 Imaginary Django model

```
from django.db import models

class Upload(models.Model):
    """Upload model."""

    name = models.CharField(max_length=255, unique=True)
    description = models.TextField(null=True, blank=True)

    # File
    file = models.FileField(null=True)

    class Meta:
        verbose_name = "Upload"
        verbose_name_plural = "Upload"

    def __str__(self):
        return self.name
```

13.2.2.1.2 Correspondent factory_boy factory

```

from django.conf import settings

from factory import Faker
from factory.django import DjangoModelFactory

# Import all providers we want to use
from faker_file.providers.bin_file import BinFileProvider
from faker_file.providers.csv_file import CsvFileProvider
from faker_file.providers.docx_file import DocxFileProvider
from faker_file.providers.eml_file import EmlFileProvider
from faker_file.providers.epub_file import EpubFileProvider
from faker_file.providers.ico_file import IcoFileProvider
from faker_file.providers.jpeg_file import JpegFileProvider
from faker_file.providers.mp3_file import Mp3FileProvider
from faker_file.providers.ods_file import OdsFileProvider
from faker_file.providers.odt_file import OdtFileProvider
from faker_file.providers.pdf_file import PdfFileProvider
from faker_file.providers.png_file import PngFileProvider
from faker_file.providers.pptx_file import PptxFileProvider
from faker_file.providers.rtf_file import RtfFileProvider
from faker_file.providers.svg_file import SvgFileProvider
from faker_file.providers.txt_file import TxtFileProvider
from faker_file.providers.webp_file import WebpFileProvider
from faker_file.providers.xlsx_file import XlsxFileProvider
from faker_file.providers.zip_file import ZipFileProvider

# Import file storage, because we need to customize things in order for it
# to work with Django.
from faker_file.storages.filesystem import FileSystemStorage

from upload.models import Upload

# Add all providers we want to use
Faker.add_provider(BinFileProvider)
Faker.add_provider(CsvFileProvider)
Faker.add_provider(DocxFileProvider)
Faker.add_provider(EmlFileProvider)
Faker.add_provider(EpubFileProvider)
Faker.add_provider(IcoFileProvider)
Faker.add_provider(JpegFileProvider)
Faker.add_provider(Mp3FileProvider)
Faker.add_provider(OdsFileProvider)
Faker.add_provider(OdtFileProvider)
Faker.add_provider(PdfFileProvider)
Faker.add_provider(PngFileProvider)
Faker.add_provider(PptxFileProvider)
Faker.add_provider(RtfFileProvider)
Faker.add_provider(SvgFileProvider)
Faker.add_provider(TxtFileProvider)
Faker.add_provider(WebpFileProvider)

```

(continues on next page)

(continued from previous page)

```

Faker.add_provider(XlsxFileProvider)
Faker.add_provider(ZipFileProvider)

# Define a file storage. When working with Django and FileSystemStorage
# you need to set the value of `root_path` argument to
# `settings.MEDIA_ROOT`.
STORAGE = FileSystemStorage(
    root_path=settings.MEDIA_ROOT,
    rel_path="tmp"
)

class UploadFactory(DjangoModelFactory):
    """Upload factory."""

    name = Faker("text", max_nb_chars=100)
    description = Faker("text", max_nb_chars=1000)

    class Meta:
        model = Upload

    class Params:
        bin_file = Trait(file=Faker("bin_file", storage=STORAGE))
        csv_file = Trait(file=Faker("csv_file", storage=STORAGE))
        docx_file = Trait(file=Faker("docx_file", storage=STORAGE))
        eml_file = Trait(file=Faker("eml_file", storage=STORAGE))
        epub_file = Trait(file=Faker("epub_file", storage=STORAGE))
        ico_file = Trait(file=Faker("ico_file", storage=STORAGE))
        jpeg_file = Trait(file=Faker("jpeg_file", storage=STORAGE))
        mp3_file = Trait(file=Faker("mp3_file", storage=STORAGE))
        ods_file = Trait(file=Faker("ods_file", storage=STORAGE))
        odt_file = Trait(file=Faker("odt_file", storage=STORAGE))
        pdf_file = Trait(file=Faker("pdf_file", storage=STORAGE))
        png_file = Trait(file=Faker("png_file", storage=STORAGE))
        pptx_file = Trait(file=Faker("pptx_file", storage=STORAGE))
        rtf_file = Trait(file=Faker("rtf_file", storage=STORAGE))
        svg_file = Trait(file=Faker("svg_file", storage=STORAGE))
        txt_file = Trait(file=Faker("txt_file", storage=STORAGE))
        webp_file = Trait(file=Faker("webp_file", storage=STORAGE))
        xlsx_file = Trait(file=Faker("xlsx_file", storage=STORAGE))
        zip_file = Trait(file=Faker("zip_file", storage=STORAGE))

```

And then somewhere in your code:

```

UploadFactory(bin_file=True) # Upload with BIN file
UploadFactory(docx_file=True) # Upload with DOCX file
UploadFactory(jpeg_file=True) # Upload with JPEG file
UploadFactory(zip_file=True) # Upload with ZIP file

```


13.2.2.2 Randomize provider choice

```

from factory import LazyAttribute
from faker import Faker
from random import choice

FAKER = Faker()

PROVIDER_CHOICES = [
    lambda: BinFileProvider(FAKER).bin_file(storage=STORAGE),
    lambda: CsvFileProvider(FAKER).csv_file(storage=STORAGE),
    lambda: DocxFileProvider(FAKER).docx_file(storage=STORAGE),
    lambda: EmlFileProvider(FAKER).eml_file(storage=STORAGE),
    lambda: EpubFileProvider(FAKER).epub_file(storage=STORAGE),
    lambda: IcoFileProvider(FAKER).ico_file(storage=STORAGE),
    lambda: JpegFileProvider(FAKER).jpeg_file(storage=STORAGE),
    lambda: Mp3FileProvider(FAKER).mp3_file(storage=STORAGE),
    lambda: OdsFileProvider(FAKER).ods_file(storage=STORAGE),
    lambda: OdtFileProvider(FAKER).odt_file(storage=STORAGE),
    lambda: PdfFileProvider(FAKER).pdf_file(storage=STORAGE),
    lambda: PngFileProvider(FAKER).png_file(storage=STORAGE),
    lambda: PptxFileProvider(FAKER).pptx_file(storage=STORAGE),
    lambda: RtfFileProvider(FAKER).rtf_file(storage=STORAGE),
    lambda: SvgFileProvider(FAKER).svg_file(storage=STORAGE),
    lambda: TxtFileProvider(FAKER).txt_file(storage=STORAGE),
    lambda: XlsxFileProvider(FAKER).xlsx_file(storage=STORAGE),
    lambda: ZipFileProvider(FAKER).zip_file(storage=STORAGE),
]

def pick_random_provider(*args, **kwargs):
    return choice(PROVIDER_CHOICES)()

class UploadFactory(DjangoModelFactory):
    """Upload factory that randomly picks a file provider."""

    # ...
    class Params:
        # ...
        random_file = Trait(file=LazyAttribute(pick_random_provider))
        # ...

```

And then somewhere in your code:

```
UploadFactory(random_file=True) # Upload with random file
```

13.2.2.3 Use a different locale

```
from factory import Faker
from factory.django import DjangoModelFactory
from faker_file.providers.ods_file import OdsFileProvider

Faker._DEFAULT_LOCALE = "hy_AM" # Set locale to Armenian

Faker.add_provider(OdsFileProvider)

class UploadFactory(DjangoModelFactory):
    """Base Upload factory."""

    name = Faker("text", max_nb_chars=100)
    description = Faker("text", max_nb_chars=1000)
    file = Faker("ods_file")

    class Meta:
        """Meta class."""

        model = Upload
```

13.2.2.4 Other Django usage examples

Faker example with AWS S3 storage

```
from django.conf import settings
from faker import Faker
from faker_file.providers.pdf_file import PdfFileProvider
from faker_file.storages.aws_s3 import AWSS3Storage

FAKER = Faker()
STORAGE = AWSS3Storage(
    bucket_name=settings.AWS_STORAGE_BUCKET_NAME,
    root_path="",
    rel_path="",
)
FAKER.add_provider(PdfFileProvider)

file = PdfFileProvider(FAKER).pdf_file(storage=STORAGE)
```

factory-boy example with AWS S3 storage

```
import factory

from django.conf import settings
from factory import Faker
from factory.django import DjangoModelFactory
from faker_file.storages.aws_s3 import AWSS3Storage

from upload.models import Upload
```

(continues on next page)

(continued from previous page)

```

STORAGE = AWSS3Storage(
    bucket_name=settings.AWS_STORAGE_BUCKET_NAME,
    root_path="",
    rel_path="",
)

```

```
Faker.add_provider(PdfFileProvider)
```

```

class UploadFactory(DjangoModelFactory):
    name = Faker('word')
    description = Faker('text')
    file = Faker("pdf_file", storage=STORAGE)

```

```

class Meta:
    model = Upload

```

```
upload = UploadFactory()
```

Flexible storage selection

```

from django.conf import settings
from django.core.files.storage import default_storage
from faker_file.storages.aws_s3 import AWSS3Storage
from faker_file.storages.filesystem import FileSystemStorage
from storages.backends.s3boto3 import S3Boto3Storage

# Faker doesn't know anything about Django. That's why, if we want to
# support remote storages, we need to manually check which file storage
# backend is used. If `Boto3` storage backend (of the `django-storages`
# package) is used we use the correspondent `AWSS3Storage` class of the
# `faker-file`.
# Otherwise, fall back to native file system storage (`FileSystemStorage`)
# of the `faker-file`.
if isinstance(default_storage, S3Boto3Storage):
    STORAGE = AWSS3Storage(
        bucket_name=settings.AWS_STORAGE_BUCKET_NAME,
        credentials={
            "key_id": settings.AWS_ACCESS_KEY_ID,
            "key_secret": settings.AWS_SECRET_ACCESS_KEY,
        },
        rel_path="tmp",
    )
else:
    STORAGE = FileSystemStorage(
        root_path=settings.MEDIA_ROOT,
        rel_path="tmp",
    )

```

13.3 CLI

It's possible to generate files from CLI.

Note: For using CLI you should install all common dependencies:

```
pip install faker-file[common]
```

13.3.1 List available provider options

```
faker-file --help
```

Output:

```
usage: faker-file [-h] [-o OUTPUT_DIR]
                  {bin_file, csv_file, docx_file, eml_file, epub_file, ico_file, jpeg_file, mp3_
↪ file, odp_file, ods_file, odt_file, pdf_file, png_file, pptx_file, rtf_file, svg_file, tar_file,
↪ txt_file, webp_file, xlsx_file, zip_file}
                  ...
```

CLI for the faker-file package.

positional arguments:

```
{bin_file, csv_file, docx_file, eml_file, epub_file, ico_file, jpeg_file, mp3_file, odp_file,
↪ ods_file, odt_file, pdf_file, png_file, pptx_file, rtf_file, svg_file, tar_file, txt_file, webp_
↪ file, xlsx_file, zip_file}
```

Available file providers.

bin_file	Generate a bin file.
csv_file	Generate a csv file.
docx_file	Generate a docx file.
eml_file	Generate a eml file.
epub_file	Generate a epub file.
ico_file	Generate a ico file.
jpeg_file	Generate a jpeg file.
mp3_file	Generate a mp3 file.
odp_file	Generate a odp file.
ods_file	Generate a ods file.
odt_file	Generate a odt file.
pdf_file	Generate a pdf file.
png_file	Generate a png file.
pptx_file	Generate a pptx file.
rtf_file	Generate a rtf file.
svg_file	Generate a svg file.
tar_file	Generate a tar file.
txt_file	Generate a txt file.
webp_file	Generate a webp file.
xlsx_file	Generate a xlsx file.
zip_file	Generate a zip file.

(continues on next page)

(continued from previous page)

```
options:
  -h, --help          show this help message and exit
```

13.3.2 List options for a certain provider

```
faker-file docx_file --help
```

Output:

```
usage: faker-file docx_file [-h] [--prefix PREFIX] [--max_nb_chars MAX_NB_CHARS] [--wrap_
chars_after WRAP_CHARS_AFTER] [--content CONTENT] [--nb_files NB_FILES]

options:
  -h, --help          show this help message and exit
  --prefix PREFIX      prefix (default: None)
  --max_nb_chars MAX_NB_CHARS
                        max_nb_chars (default: 10000)
  --wrap_chars_after WRAP_CHARS_AFTER
                        wrap_chars_after (default: None)
  --content CONTENT    content (default: None)
  --nb_files NB_FILES  number of files to generate (default: 1)
```

13.3.3 Generate a file using certain provider

```
faker-file docx_file
```

Output:

```
Generated docx_file file: tmp/tmpva0mp3lp.docx
```

13.3.4 Shell auto-completion

First, generate shell auto-completion file.

```
faker-file generate-completion
```

Then, source the generated file:

```
source ~/faker_file_completion.sh
```

Now you can use auto-completion. Simply type `faker-file [tab-tab]` to see the list of available options:

```
$ faker-file
bin_file  eml_file  jpeg_file  ods_file  png_file  svg_file  webp_file
csv_file  epub_file  mp3_file  odt_file  pptx_file  tar_file  xlsx_file
docx_file  ico_file  odp_file  pdf_file  rtf_file  txt_file  zip_file
```

It works with sub options too:

```
$ faker-file docx_file --
--content      --max_nb_chars  --prefix      --wrap_chars_after  --nb_files
```

To update the completion script, simply run the `generate-completion` command again and source the `~/faker_file_completion.sh` as already shown above.

13.4 Security Policy

13.4.1 Reporting a Vulnerability

Do not report security issues on GitHub!

Please report security issues by emailing Artur Barseghyan <artur.barseghyan@gmail.com>.

13.4.2 Supported Versions

Make sure to use the latest version.

The two most recent `faker-file` release series receive security support.

For example, during the development cycle leading to the release of `faker-file` 0.14.x, support will be provided for `faker-file` 0.13.x.

Upon the release of `faker-file` 0.15.x, security support for `faker-file` 0.13.x will end.

Version	Supported	
0.14.x	Yes	
0.13.x	Yes	
< 0.13	No	

13.5 Contributor Covenant Code of Conduct

13.5.1 Our Pledge

We as members, contributors, and leaders pledge to make participation in our community a harassment-free experience for everyone, regardless of age, body size, visible or invisible disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

We pledge to act and interact in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community.

13.5.2 Our Standards

Examples of behavior that contributes to a positive environment for our community include:

- Demonstrating empathy and kindness toward other people
- Being respectful of differing opinions, viewpoints, and experiences
- Giving and gracefully accepting constructive feedback
- Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience
- Focusing on what is best not just for us as individuals, but for the overall community

Examples of unacceptable behavior include:

- The use of sexualized language or imagery, and sexual attention or advances of any kind
- Trolling, insulting or derogatory comments, and personal or political attacks
- Public or private harassment
- Publishing others' private information, such as a physical or email address, without their explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

13.5.3 Enforcement Responsibilities

Community leaders are responsible for clarifying and enforcing our standards of acceptable behavior and will take appropriate and fair corrective action in response to any behavior that they deem inappropriate, threatening, offensive, or harmful.

Community leaders have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, and will communicate reasons for moderation decisions when appropriate.

13.5.4 Scope

This Code of Conduct applies within all community spaces, and also applies when an individual is officially representing the community in public spaces. Examples of representing our community include using an official e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event.

13.5.5 Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported to the community leaders responsible for enforcement at artur.barseghyan@gmail.com. All complaints will be reviewed and investigated promptly and fairly.

All community leaders are obligated to respect the privacy and security of the reporter of any incident.

13.5.6 Enforcement Guidelines

Community leaders will follow these Community Impact Guidelines in determining the consequences for any action they deem in violation of this Code of Conduct:

13.5.6.1 1. Correction

Community Impact: Use of inappropriate language or other behavior deemed unprofessional or unwelcome in the community.

Consequence: A private, written warning from community leaders, providing clarity around the nature of the violation and an explanation of why the behavior was inappropriate. A public apology may be requested.

13.5.6.2 2. Warning

Community Impact: A violation through a single incident or series of actions.

Consequence: A warning with consequences for continued behavior. No interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, for a specified period of time. This includes avoiding interactions in community spaces as well as external channels like social media. Violating these terms may lead to a temporary or permanent ban.

13.5.6.3 3. Temporary Ban

Community Impact: A serious violation of community standards, including sustained inappropriate behavior.

Consequence: A temporary ban from any sort of interaction or public communication with the community for a specified period of time. No public or private interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, is allowed during this period. Violating these terms may lead to a permanent ban.

13.5.6.4 4. Permanent Ban

Community Impact: Demonstrating a pattern of violation of community standards, including sustained inappropriate behavior, harassment of an individual, or aggression toward or disparagement of classes of individuals.

Consequence: A permanent ban from any sort of public interaction within the community.

13.5.7 Attribution

This Code of Conduct is adapted from the Contributor Covenant, version 2.0, available at https://www.contributor-covenant.org/version/2/0/code_of_conduct.html.

Community Impact Guidelines were inspired by Mozilla's code of conduct enforcement ladder.

For answers to common questions about this code of conduct, see the FAQ at <https://www.contributor-covenant.org/faq>. Translations are available at <https://www.contributor-covenant.org/translations>.

13.6 Contributor guidelines

13.6.1 Developer prerequisites

13.6.1.1 pre-commit

Refer to `pre-commit` for installation instructions.

TL;DR:

```
pip install pipx --user # Install pipx
pipx install pre-commit # Install pre-commit
pre-commit install # Install pre-commit hooks
```

Installing `pre-commit` will ensure you adhere to the project code quality standards.

13.6.2 Code standards

`black`, `isort`, `ruff` and `doc8` will be automatically triggered by `pre-commit`. Still, if you want to run checks manually:

```
./scripts/black.sh
./scripts/doc8.sh
./scripts/isort.sh
./scripts/ruff.sh
```

13.6.3 Requirements

Requirements are compiled using `pip-tools`.

```
./scripts/compile_requirements.sh
```

13.6.4 Virtual environment

You are advised to work in virtual environment.

TL;DR:

```
python -m venv env
pip install -e .
pip install -r examples/requirements/django_3_2_and_flask.txt
```

13.6.5 Documentation

Check [documentation](#).

13.6.6 Testing

Check [testing](#).

If you introduce changes or fixes, make sure to test them locally using all supported environments. For that use `tox`.

`tox`

In any case, GitHub Actions will catch potential errors, but using `tox` speeds things up.

13.6.7 Pull requests

You can contribute to the project by making a [pull request](#).

For example:

- To fix documentation typos.
- To improve documentation (for instance, to add new recipe or fix an existing recipe that doesn't seem to work).
- To introduce a new feature (for instance, add support for a non-supported file type).

Good to know:

- Test suite makes extensive use of parametrization. Make sure you have added your changes in the right place.

General list to go through:

- Does your change require documentation update?
- Does your change require update to tests?
- Did you test both Latin and Unicode characters?
- Does your change rely on third-party cloud based service? If so, please make sure it's added to tests that should be retried a couple of times. Example: `@pytest.mark.flaky(reruns=5)`.

When fixing bugs (in addition to the general list):

- Make sure to add regression tests.

When adding a new feature (in addition to the general list):

- Check the licenses of added dependencies carefully and make sure to list them in [prerequisites](#).
- Make sure to update the documentation (check whether the [installation](#), [features](#), [recipes](#) and [quick start](#) require changes).

13.6.8 Questions

Questions can be asked on GitHub [discussions](#).

13.6.9 Issues

For reporting a bug or filing a feature request use GitHub [issues](#).

Do not report security issues on GitHub. Check the [support](#) section.

13.7 Release history and notes

[Sequence based identifiers](#) are used for versioning (schema follows below):

<code>major.minor[.revision]</code>

- It's always safe to upgrade within the same minor version (for example, from 0.3 to 0.3.4).
- Minor version changes might be backwards incompatible. Read the release notes carefully before upgrading (for example, when upgrading from 0.3.4 to 0.4).
- All backwards incompatible changes are mentioned in this document.

13.7.1 0.14.5

2023-05-11

- Minor fixes in `xml_file` provider.

13.7.2 0.14.4

2023-05-11

- Changed type of `data_columns` for `xml_file` provider from `Sequence[Tuple[str, str]]` to `Dict[str, str]`.
- In the `pdf_file` provider, changed default value of `pdf_generator_cls` from concrete `PdfkitPdfGenerator` value to its' string representation `faker_file.providers.pdf_file.generators.pdfkit_generator.PdfkitPdfGenerator`.
- In the `mp3_file` provider, changed default value of `mp3_generator_cls` from concrete `GttsMp3Generator` value to its' string representation `faker_file.providers.mp3_file.generators.gtts_generator.GttsMp3Generator`.

13.7.3 0.14.3

2023-05-10

- Minor fixes in the `GenericFileProvider`.

13.7.4 0.14.2

2023-05-09

- Add `create_inner_generic_file` inner function.
- Add `generic_file` support to CLI.

13.7.5 0.14.1

2023-05-08

- Add support for `list_create_inner_file`-like functions to the EML file provider. If you are using CLI and CLI-completion, make sure to re-generate the completion file.
- Add `GenericFileProvider` provider to support generic file types.

13.7.6 0.14

2023-05-07

Note: This release introduces minor backwards incompatible changes.

- A new argument `basename` has been added to all providers, inner functions and storage classes. If you have customized things or created your own providers, make sure to make appropriate changes in your code. See the source code for more implementation examples. If you are using CLI and CLI-completion, make sure to re-generate the completion file.
- A new inner function `list_create_inner_file` has been added, using which it's possible to create just a list of given files (ignoring count value) using given arguments. The amount of files is determined by the `func_list` (each pair (`Callable`, `kwargs`) corresponds to a single file. Both `ZipFileProvider` and `TarFileProvider` have been altered to reflect these changes.
- Added to support for XML files through `XmlFileProvider`.

13.7.7 0.13

2023-05-05

Note: This release introduces minor backwards incompatible changes.

- Display full path to the created file in the CLI.
- Added `DynamicTemplate` support for PDF file. The `generate` method of the `BasePdfGenerator` and classes derived from it, got two new arguments: `data` (`Dict[str, Any]`), and `provider` (`Union[Faker, Generator, Provider]`). If you have implemented custom generators for PDF (`pdf_file` provider), make sure to reflect mentioned changes in your code.

13.7.8 0.12.6

2023-05-02

- Added `DynamicTemplate` support for DOCX and ODT files.

13.7.9 0.12.5

2023-04-24

Note: In memory of the victims of the [Armenian Genocide](#).

- Expose `mp3_generator_cls` and `pdf_generator_cls` CLI options for `mp3_file` and `pdf_file` respectively.
- Add `num_files` CLI option for all providers.

13.7.10 0.12.4

2023-04-22

- Make it possible to load classes from strings for passing as arguments to `mp3_file` and `pdf_file` providers.

13.7.11 0.12.3

2023-04-21

- Fixes in CLI options.

13.7.12 0.12.2

2023-04-20

- Fixes in CLI options.

13.7.13 0.12.1

2023-04-19

- Added CLI options.

13.7.14 0.12

2023-02-24

Note, that this release introduces breaking changes!

- Make it easy to use a different PDF library with `PdfFileProvider` by adding `pdf_generator_cls` and `pdf_generator_kwargs` optional arguments to the `pdf_file` method. Added `ReportlabPdfGenerator` class based on the famous `reportlab` library. Default is still `PdfkitPdfGenerator`. Since encoding was something specific for `pdfkit` library, it was moved from `pdf_file` method to `PdfkitPdfGenerator`, to which it can be passed in `pdf_generator_kwargs`. If you have passed the `encoding` argument explicitly, make sure

to make correspondent changes. Note, that using the new `ReportlabPdfGenerator` class could speed-up PDF generation by about 40 times.

13.7.15 0.11.5

2023-02-20

- Fixes in typing of `CsvFileProvider`. `Tuple[str, str]` becomes `Tuple[str, ...]`.

13.7.16 0.11.4

2023-02-16

Note: Release dedicated to my dear valentine - Anahit.

- Added `filename` to `data` property of values returned by `Mp3FileProvider` provider (`StringValue`, `BytesValue`).

13.7.17 0.11.3

2023-02-10

- Moved several interface classes from one location to another. If you haven't implemented custom generators, this won't affect you. If you did, make sure to update your imports:
 - `BaseTextAugmenter` has been moved from `faker_file.providers.augment_file_from_dir.augmenters.base` to `faker_file.providers.base.text_augmenter`.
 - `BaseTextExtractor` has been moved from `faker_file.providers.augment_file_from_dir.extractors.base` to `faker_file.providers.base.text_extractor`.
 - `BaseMp3Generator` has been moved from `faker_file.providers.mp3_file.generators.base` to `faker_file.providers.base.mp3_generator`.

13.7.18 0.11.2

2023-02-07

- Add `filename` to `data` property of values returned by providers (`StringValue`, `BytesValue`).

13.7.19 0.11.1

2023-01-31

- Documentation improvements.
- MyPy fixes.

13.7.20 0.11

2023-01-25

- Allow returning binary contents of the file by providing the `raw=True` argument (False by default, works with all provider classes and inner functions). If you have subclassed or overridden provider classes or written custom inner functions, make sure to reflect the changes in your code.

13.7.21 0.10.12

2023-01-21

- Add `TarFileProvider` and `create_inner_tar_file` function.
- Add `OdpFileProvider` and `create_inner_odp_file` function.

13.7.22 0.10.11

2023-01-20

- Improve EPUB document layout.
- Improve PDF document layout.
- Minor documentation improvements.

13.7.23 0.10.10

2023-01-19

- Allow passing `model_name` and `action` arguments to the `ContextualWordEmbeddingsAugmenter`.
- Replace `bert-base-cased` with `bert-base-multilingual-cased` as a default model for `ContextualWordEmbeddingsAugmenter`.
- Improve PPTX document layout.
- Minor fixes in documentation.

13.7.24 0.10.9

2023-01-18

- Add an installation directive `[common]` to install everything except ML libraries.
- Added testing of UTF8 content.

13.7.25 0.10.8

2023-01-16

- Switch to PyPI releases of `gtts`.
- Stop testing against Django 3.0 and 3.1.
- Documentation improvements.
- Tests improvements.

13.7.26 0.10.7

2023-01-13

- Add `OdtFileProvider` and `create_inner_odt_file` function.
- Documentation improvements.
- Async related deprecation fixes in `EdgeTtsMp3Generator`.
- Optimize example factories.

13.7.27 0.10.6

2023-01-11

- Add `AugmentFileFromDirProvider` provider for making augmented copies of randomly picked files from given directory.
- Documentation improvements.
- Fixes in setup.

13.7.28 0.10.5

2023-01-09

- Add `fuzzy_choice_create_inner_file` inner function for easy diversion of files within archives (ZIP, EML).
- Documentation improvements.
- Add `MaryTTS` example (another MP3 generator for `Mp3FileProvider`).

13.7.29 0.10.4

2023-01-08

- Add missing `mp3_generator_kwargs` argument to the `create_inner_mp3_file` function.
- Clean-up.

13.7.30 0.10.3

2023-01-07

Improvements of the Mp3FileProvider module:

- Pass active generator to the Mp3FileProvider in the generator argument if BaseMp3Generator (and all implementations).
- Introduce handle_kwargs method in the BaseMp3Generator to handle arbitrary provider specific tuning.
- Add EdgeTtsMp3Generator MP3 generator.
- Add mp3_generator_kwargs argument to the Mp3FileProvider.mp3_file method.

13.7.31 0.10.2

2023-01-06

- Add Mp3FileProvider.
- Add create_inner_mp3_file inner function.

13.7.32 0.10.1

2023-01-05

- Fixes in ZipFileProvider.

13.7.33 0.10

2023-01-04

Note, that this release introduces breaking changes!

- Move all create_inner*_file functions from faker_file.providers.zip_file to faker_file.providers.helpers.inner module. Adjust your imports accordingly.
- Add EmlFileProvider.
- Add create_inner_eml_file inner function.

13.7.34 0.9.3

2023-01-03

- Add EpubFileProvider provider.

13.7.35 0.9.2

2022-12-23

- Add RrfFileProvider.
- Added SQLAlchemy factory example.

13.7.36 0.9.1

2022-12-19

- Fixes in cloud storage.
- Documentation fixes.

13.7.37 0.9

2022-12-17

- Add optional encoding argument to CsvFileProvider and PdfFileProvider providers.
- Add root_path argument to cloud storages.
- Moved all image related code (IcoFileProvider, JpegFileProvider, PngFileProvider, SvgFileProvider, WebpFileProvider) to ImageMixin. Moved all tabular data related code (OdsFileProvider, XlsxFileProvider) to TabularDataMixin.
- Documentation improvements.

13.7.38 0.8

2022-12-16

Note, that this release introduces breaking changes!

- All file system based operations are moved to a separate abstraction layer of file storages. The following storages have been implemented: FileSystemStorage, PathyFileSystemStorage, AWSS3Storage, GoogleCloudStorage and AzureStorage. The root_path and rel_path params of the providers are deprecated in favour of storages. See the docs more usage examples.

13.7.39 0.7

2022-12-12

- Added RandomFileFromDirProvider which picks a random file from directory given.
- Improved docs.

13.7.40 0.6

2022-12-11

- Pass optional `generator` argument to inner functions of the `ZipFileProvider`.
- Added `create_inner_zip_file` inner function which allows to create nested ZIPs.
- Reached test coverage of 100%.

13.7.41 0.5

2022-12-10

Note, that this release introduces breaking changes!

- Added `ODS` file support.
- Switched to `tablib` for easy, non-variant support of various formats (`XLSX`, `ODS`).
- Silence `imgkit` logging output.
- `ZipFileProvider` allows to pass arbitrary arguments to inner functions. Put all your inner function arguments into a dictionary and pass it in `create_inner_file_args` key inside `options` argument. See the example below.

```
zip_file = ZipFileProvider(None).file(  
    prefix="zzz_archive_",  
    options={  
        "count": 5,  
        "create_inner_file_func": create_inner_docx_file,  
        "create_inner_file_args": {  
            "prefix": "zzz_file_",  
            "max_nb_chars": 1_024,  
            "content": "{{date}}\r\n{{text}}\r\n{{name}}",  
        },  
        "directory": "zzz",  
    }  
)
```

13.7.42 0.4

2022-12-09

Note, that this release introduces breaking changes!

- Remove the concept of content generators (and the correspondent `content_generator` arguments in implemented providers). Instead, allow usage of dynamic fixtures in the provided `content` argument.
- Remove temporary files when creating ZIP archives.
- Various improvements and fixes in docs.

13.7.43 0.3

2022-12-08

- Add support for *BIN*, *CSV* and *XLSX* files.
- Better visual representation of generated images and PDFs.

13.7.44 0.2

2022-12-07

- Added support for *ICO*, *JPEG*, *PNG*, *SVG* and *WEBP* files.
- Documentation improvements.

13.7.45 0.1

2022-12-06

- Initial beta release.

13.8 Package

13.8.1 faker_file package

13.8.1.1 Subpackages

13.8.1.1.1 faker_file.providers package

13.8.1.1.1.1 Subpackages

13.8.1.1.1.2 faker_file.providers.augment_file_from_dir package

13.8.1.1.1.3 Subpackages

13.8.1.1.1.4 faker_file.providers.augment_file_from_dir.augmenters package

13.8.1.1.1.5 Submodules

13.8.1.1.1.6 faker_file.providers.augment_file_from_dir.augmenters.base module

13.8.1.1.1.7 faker_file.providers.augment_file_from_dir.augmenters.nlpaug_augmenter module

13.8.1.1.1.8 Module contents

13.8.1.1.1.9 faker_file.providers.augment_file_from_dir.extractors package

13.8.1.1.1.10 Submodules

13.8.1.1.1.11 faker_file.providers.augment_file_from_dir.extractors.base module

13.8.1.1.1.12 faker_file.providers.augment_file_from_dir.extractors.tika_extractor module

13.8.1.1.1.13 Module contents

13.8.1.1.1.14 Module contents

13.8.1.1.1.15 faker_file.providers.helpers package

13.8.1.1.1.16 Submodules

13.8.1.1.1.17 faker_file.providers.helpers.inner module

`faker_file.providers.helpers.inner.create_inner_bin_file`(*storage*: *Optional*[[BaseStorage](#)] = *None*,
basename: *Optional*[*str*] = *None*, *prefix*:
Optional[*str*] = *None*, *generator*:
Optional[*Union*[*Faker*, *Generator*,
Provider]] = *None*, *length*: *int* = *1* * *1024*
* *1024*, *content*: *Optional*[*bytes*] = *None*,
raw: *bool* = *True*, ***kwargs*) →
BytesValue

```
faker_file.providers.helpers.inner.create_inner_bin_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, length: int = 1 * 1024
                                                         * 1024, content: Optional[bytes] = None,
                                                         **kwargs) → StringValue
```

Create inner BIN file.

```
faker_file.providers.helpers.inner.create_inner_csv_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, header:
                                                         Optional[Sequence[str]] = None,
                                                         data_columns: Tuple[str, str] =
                                                         ('{{name}}', '{{address}}'), num_rows: int
                                                         = 10, include_row_ids: bool = False,
                                                         content: Optional[str] = None, raw: bool
                                                         = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_csv_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, header:
                                                         Optional[Sequence[str]] = None,
                                                         data_columns: Tuple[str, str] =
                                                         ('{{name}}', '{{address}}'), num_rows: int
                                                         = 10, include_row_ids: bool = False,
                                                         content: Optional[str] = None, **kwargs)
                                                         → StringValue
```

Create inner CSV file.

```
faker_file.providers.helpers.inner.create_inner_docx_file(storage: Optional[BaseStorage] = None,
                                                           basename: Optional[str] = None, prefix:
                                                           Optional[str] = None, generator:
                                                           Optional[Union[Faker, Generator,
                                                           Provider]] = None, max_nb_chars: int =
                                                           DEFAULT_TEXT_MAX_NB_CHARS,
                                                           wrap_chars_after: Optional[int] =
                                                           None, content: Optional[str] = None,
                                                           raw: bool = True, **kwargs) →
                                                           BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_docx_file(storage: Optional[BaseStorage] = None,
                                                           basename: Optional[str] = None, prefix:
                                                           Optional[str] = None, generator:
                                                           Optional[Union[Faker, Generator,
                                                           Provider]] = None, max_nb_chars: int =
                                                           DEFAULT_TEXT_MAX_NB_CHARS,
                                                           wrap_chars_after: Optional[int] =
                                                           None, content: Optional[str] = None,
                                                           **kwargs) → StringValue
```

Create inner DOCX file.

```
faker_file.providers.helpers.inner.create_inner_eml_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, options:
                                                         Optional[Dict[str, Any]] = None,
                                                         max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, raw: bool
                                                         = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_eml_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, options:
                                                         Optional[Dict[str, Any]] = None,
                                                         max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, **kwargs)
                                                         → StringValue
```

Create inner EML file.

```
faker_file.providers.helpers.inner.create_inner_epub_file(storage: Optional[BaseStorage] = None,
                                                           basename: Optional[str] = None, prefix:
                                                           Optional[str] = None, generator:
                                                           Optional[Union[Faker, Generator,
                                                           Provider]] = None, max_nb_chars: int =
                                                           DEFAULT_TEXT_MAX_NB_CHARS,
                                                           wrap_chars_after: Optional[int] =
                                                           None, content: Optional[str] = None,
                                                           title: Optional[str] = None,
                                                           chapter_title: Optional[str] = None,
                                                           raw: bool = True, **kwargs) →
                                                           BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_epub_file(storage: Optional[BaseStorage] = None,
                                                           basename: Optional[str] = None, prefix:
                                                           Optional[str] = None, generator:
                                                           Optional[Union[Faker, Generator,
                                                           Provider]] = None, max_nb_chars: int =
                                                           DEFAULT_TEXT_MAX_NB_CHARS,
                                                           wrap_chars_after: Optional[int] =
                                                           None, content: Optional[str] = None,
                                                           title: Optional[str] = None,
                                                           chapter_title: Optional[str] = None,
                                                           **kwargs) → StringValue
```

Create inner EPUB file.


```
faker_file.providers.helpers.inner.create_inner_generic_file(content: Union[bytes, str], extension:
                                                                str, storage: Optional[BaseStorage]
                                                                = None, basename: Optional[str] =
                                                                None, prefix: Optional[str] = None,
                                                                generator: Optional[Union[Faker,
                                                                Generator, Provider]] = None, raw:
                                                                bool = True, **kwargs) →
                                                                BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_generic_file(content: Union[bytes, str], extension:
                                                                str, storage: Optional[BaseStorage]
                                                                = None, basename: Optional[str] =
                                                                None, prefix: Optional[str] = None,
                                                                generator: Optional[Union[Faker,
                                                                Generator, Provider]] = None,
                                                                **kwargs) → StringValue
```

Create inner generic file.

```
faker_file.providers.helpers.inner.create_inner_ico_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_IMAGE_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, raw: bool
                                                         = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_ico_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_IMAGE_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, **kwargs)
                                                         → StringValue
```

Create inner ICO file.

```
faker_file.providers.helpers.inner.create_inner_jpeg_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_IMAGE_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] =
                                                         None, content: Optional[str] = None,
                                                         raw: bool = True, **kwargs) →
                                                         BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_jpeg_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_IMAGE_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] =
                                                         None, content: Optional[str] = None,
                                                         **kwargs) → StringValue
```

Create inner JPEG file.

```
faker_file.providers.helpers.inner.create_inner_mp3_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_AUDIO_MAX_NB_CHARS,
                                                         content: Optional[str] = None,
                                                         mp3_generator_cls: Optional[Union[str,
                                                         Type[BaseMp3Generator]]] = None,
                                                         mp3_generator_kwargs:
                                                         Optional[Dict[str, Any]] = None, raw:
                                                         bool = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_mp3_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_AUDIO_MAX_NB_CHARS,
                                                         content: Optional[str] = None,
                                                         mp3_generator_cls: Optional[Union[str,
                                                         Type[BaseMp3Generator]]] = None,
                                                         mp3_generator_kwargs:
                                                         Optional[Dict[str, Any]] = None,
                                                         **kwargs) → StringValue
```

Create inner ODS file.

```
faker_file.providers.helpers.inner.create_inner_odp_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, raw: bool
                                                         = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_odp_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, **kwargs)
                                                         → Union[BytesValue, StringValue]
```

Create inner ODP file.

```
faker_file.providers.helpers.inner.create_inner_ods_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, data_columns:
                                                         Optional[Dict[str, str]] = None,
                                                         num_rows: int = 10, content:
                                                         Optional[str] = None, raw: bool = True,
                                                         **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_ods_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, data_columns:
                                                         Optional[Dict[str, str]] = None,
                                                         num_rows: int = 10, content:
                                                         Optional[str] = None, **kwargs) →
                                                         StringValue
```

Create inner ODS file.

```
faker_file.providers.helpers.inner.create_inner_odt_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, raw: bool
                                                         = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_odt_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, **kwargs)
                                                         → StringValue
```

Create inner ODT file.

```
faker_file.providers.helpers.inner.create_inner_pdf_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None,
                                                         pdf_generator_cls: Optional[Union[str,
                                                         Type[BasePdfGenerator]]] = None,
                                                         pdf_generator_kwargs: Optional[Dict[str,
                                                         Any]] = None, raw: bool = True,
                                                         **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_pdf_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None,
                                                         pdf_generator_cls: Optional[Union[str,
                                                         Type[BasePdfGenerator]]] = None,
                                                         pdf_generator_kwargs: Optional[Dict[str,
                                                         Any]] = None, **kwargs) → StringValue
```

Create inner PDF file.

```
faker_file.providers.helpers.inner.create_inner_png_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_IMAGE_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, raw: bool
                                                         = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_png_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_IMAGE_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, **kwargs)
                                                         → StringValue
```

Create inner PNG file.

```
faker_file.providers.helpers.inner.create_inner_pptx_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] =
                                                         None, content: Optional[str] = None,
                                                         raw: bool = True, **kwargs) →
                                                         BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_pptx_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] =
                                                         None, content: Optional[str] = None,
                                                         **kwargs) → StringValue
```

Create inner PPTX file.

```
faker_file.providers.helpers.inner.create_inner_rtf_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, raw: bool
                                                         = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_rtf_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_TEXT_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, **kwargs)
                                                         → StringValue
```

Create inner RTF file.

```
faker_file.providers.helpers.inner.create_inner_svg_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_IMAGE_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] = None,
                                                         content: Optional[str] = None, raw: bool
                                                         = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_svg_file(storage: Optional[BaseStorage] = None,  
                                                         basename: Optional[str] = None, prefix:  
                                                         Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
                                                         DEFAULT_IMAGE_MAX_NB_CHARS,  
                                                         wrap_chars_after: Optional[int] = None,  
                                                         content: Optional[str] = None, **kwargs)  
→ StringValue
```

Create inner SVG file.

```
faker_file.providers.helpers.inner.create_inner_tar_file(storage: Optional[BaseStorage] = None,  
                                                         basename: Optional[str] = None, prefix:  
                                                         Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, options:  
                                                         Optional[Dict[str, Any]] = None,  
                                                         compression: Optional[str] = None, raw:  
                                                         bool = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_tar_file(storage: Optional[BaseStorage] = None,  
                                                         basename: Optional[str] = None, prefix:  
                                                         Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, options:  
                                                         Optional[Dict[str, Any]] = None,  
                                                         compression: Optional[str] = None,  
                                                         **kwargs) → StringValue
```

Create inner TAR file.

```
faker_file.providers.helpers.inner.create_inner_txt_file(storage: Optional[BaseStorage] = None,  
                                                         basename: Optional[str] = None, prefix:  
                                                         Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
                                                         DEFAULT_TEXT_MAX_NB_CHARS,  
                                                         wrap_chars_after: Optional[int] = None,  
                                                         content: Optional[str] = None, raw: bool  
                                                         = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_txt_file(storage: Optional[BaseStorage] = None,  
                                                         basename: Optional[str] = None, prefix:  
                                                         Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
                                                         DEFAULT_TEXT_MAX_NB_CHARS,  
                                                         wrap_chars_after: Optional[int] = None,  
                                                         content: Optional[str] = None, **kwargs)  
→ StringValue
```

Create inner TXT file.

```
faker_file.providers.helpers.inner.create_inner_webp_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_IMAGE_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] =
                                                         None, content: Optional[str] = None,
                                                         raw: bool = True, **kwargs) →
                                                         BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_webp_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, max_nb_chars: int =
                                                         DEFAULT_IMAGE_MAX_NB_CHARS,
                                                         wrap_chars_after: Optional[int] =
                                                         None, content: Optional[str] = None,
                                                         **kwargs) → StringValue
```

Create inner WEBP file.

```
faker_file.providers.helpers.inner.create_inner_xlsx_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, data_columns:
                                                         Optional[Dict[str, str]] = None,
                                                         num_rows: int = 10, content:
                                                         Optional[str] = None, raw: bool = True,
                                                         **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_xlsx_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, data_columns:
                                                         Optional[Dict[str, str]] = None,
                                                         num_rows: int = 10, content:
                                                         Optional[str] = None, **kwargs) →
                                                         StringValue
```

Create inner XLSX file.

```
faker_file.providers.helpers.inner.create_inner_xml_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, root_element: str =
                                                         'root', row_element: str = 'row',
                                                         data_columns: Optional[Dict[str, str]] =
                                                         None, num_rows: int = 10, content:
                                                         Optional[str] = None, encoding:
                                                         Optional[str] = None, raw: bool = True,
                                                         **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_xml_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, root_element: str =
                                                         'root', row_element: str = 'row',
                                                         data_columns: Optional[Dict[str, str]] =
                                                         None, num_rows: int = 10, content:
                                                         Optional[str] = None, encoding:
                                                         Optional[str] = None, **kwargs) →
                                                         StringValue
```

Create inner XML file.

```
faker_file.providers.helpers.inner.create_inner_zip_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, options:
                                                         Optional[Dict[str, Any]] = None, raw:
                                                         bool = True, **kwargs) → BytesValue
```

```
faker_file.providers.helpers.inner.create_inner_zip_file(storage: Optional[BaseStorage] = None,
                                                         basename: Optional[str] = None, prefix:
                                                         Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, options:
                                                         Optional[Dict[str, Any]] = None,
                                                         **kwargs) → StringValue
```

Create inner ZIP file.

```
faker_file.providers.helpers.inner.fuzzy_choice_create_inner_file(func_choices:
                                                                    List[Tuple[Callable, Dict[str,
                                                                    Any]]], **kwargs) →
                                                                    Union[BytesValue,
                                                                    StringValue]
```

Create inner file from given list of function choices.

Parameters

func_choices – List of functions to choose from.

Returns

StringValue.

Usage example:

```
from faker import Faker
from faker_file.providers.helpers.inner import (
    create_inner_docx_file, create_inner_epub_file, create_inner_txt_file,
    fuzzy_choice_create_inner_file,
)
from faker_file.storages.filesystem import FileSystemStorage

FAKER = Faker()
STORAGE = FileSystemStorage()

kwargs = {"storage": STORAGE, "generator": FAKER}
file = fuzzy_choice_create_inner_file(
    [
        (create_inner_docx_file, kwargs),
        (create_inner_epub_file, kwargs),
        (create_inner_txt_file, kwargs),
    ]
)
```



```
]
)
```

You could use it in archives to make a variety of different file types within the archive.

```
from faker import Faker from faker_file.providers.helpers.inner import (
    create_inner_docx_file,          create_inner_epub_file,          create_inner_txt_file,
    fuzzy_choice_create_inner_file,

) from faker_file.providers.zip_file import ZipFileProvider from faker_file.storages.filesystem import
FileSystemStorage

FAKER = Faker() STORAGE = FileSystemStorage()

kwargs = {"storage": STORAGE, "generator": FAKER} file = ZipFileProvider(FAKER).zip_file(
    prefix="zzz_archive_", options={
        "count": 50, "create_inner_file_func": fuzzy_choice_create_inner_file, "create_inner_file_args": {
            "func_choices": [
                (create_inner_docx_file, kwargs), (create_inner_epub_file, kwargs), (create_inner_txt_file, kwargs),
            ],
        }, "directory": "zzz",
    }
)
```

```
faker_file.providers.helpers.inner.list_create_inner_file(func_list: List[Tuple[Callable, Dict[str,
Any]]], **kwargs) →
List[Union[BytesValue, StringValue]]
```

Generates multiple files based on the provided list of functions and arguments.

Parameters

func_list – List of tuples, each containing a function to generate a file and its arguments.

Returns

List of generated file names.

Usage example:

```
from faker import Faker from faker_file.providers.helpers.inner import (
    create_inner_docx_file, create_inner_xml_file, list_create_inner_file,

) from faker_file.providers.zip_file import ZipFileProvider from faker_file.storages.filesystem import
FileSystemStorage

FAKER = Faker() STORAGE = FileSystemStorage()

kwargs = {"storage": STORAGE, "generator": FAKER} file = ZipFileProvider(FAKER).zip_file(
    basename="alice-looking-through-the-glass", options={
        "create_inner_file_func": list_create_inner_file, "create_inner_file_args": {
            "func_list": [
                (create_inner_docx_file, {"basename": "doc"}), (create_inner_xml_file,
                {"basename": "doc_metadata"}), (create_inner_xml_file, {"basename":
                "doc_isbn"}),
            ],
        },
    )
```

```
        ],
    },
}

)
```

Note, that while all other inner functions return back *Union[BytesValue, StringValue]* value, *list_create_inner_file* returns back a *List[Union[BytesValue, StringValue]]* value.

Notably, all inner functions were designed to support archives (such as ZIP, TAR and EML, but the list may grow in the future). If the inner function passed in the *create_inner_file_func* argument returns a List of *Union[BytesValue, StringValue]* values, the *option* argument is being ignored and generated files are simply limited to what has been passed in the *func_list* list of tuples.

13.8.1.1.1.18 Module contents

13.8.1.1.1.19 `faker_file.providers.mixins` package

13.8.1.1.1.20 Submodules

13.8.1.1.1.21 `faker_file.providers.mixins.image_mixin` module

```
class faker_file.providers.mixins.image_mixin.ImageMixin
```

Bases: *FileMixin*

Image mixin.

extension: str

formats: List[str]

generator: Union[Faker, Generator, Provider]

numerify: Callable

random_element: Callable

13.8.1.1.1.22 `faker_file.providers.mixins.tablular_data_mixin` module

```
class faker_file.providers.mixins.tablular_data_mixin.TabularDataMixin
```

Bases: *FileMixin*

Tabular data mixin.

extension: str

formats: List[str]

generator: Union[Faker, Generator, Provider]

numerify: Callable

random_element: Callable

13.8.1.1.1.23 Module contents

13.8.1.1.1.24 `faker_file.providers.mp3_file` package

13.8.1.1.1.25 Subpackages

13.8.1.1.1.26 `faker_file.providers.mp3_file.generators` package

13.8.1.1.1.27 Submodules

13.8.1.1.1.28 `faker_file.providers.mp3_file.generators.base` module

13.8.1.1.1.29 `faker_file.providers.mp3_file.generators.edge_tts_generator` module

```
class faker_file.providers.mp3_file.generators.edge_tts_generator.EdgeTtsMp3Generator(content:
                                                                    str,
                                                                    gen-
                                                                    era-
                                                                    tor:
                                                                    Union[Faker,
                                                                    Gen-
                                                                    era-
                                                                    tor,
                                                                    Provider],
                                                                    **kwargs)
```

Bases: `BaseMp3Generator`

Edge Text-to-Speech generator.

Usage example:

```
from faker import Faker from faker_file.providers.mp3_file import Mp3FileProvider from
faker_file.providers.mp3_file.generators import edge_tts_generator

FAKER = Faker()

file = Mp3FileProvider(FAKER).mp3_file(
    mp3_generator_cls=edge_tts_generator.EdgeTtsMp3Generator
)
```

generate(**kwargs) → bytes

Generate MP3.

handle_kwargs(**kwargs) → None

Handle kwargs.

voice: str = 'en-GB-SoniaNeural'

13.8.1.1.1.30 `faker_file.providers.mp3_file.generators.gtts_generator` module

```
class faker_file.providers.mp3_file.generators.gtts_generator.GttsMp3Generator(content: str,  
generator:  
Union[Faker,  
Generator,  
Provider],  
**kwargs)
```

Bases: `BaseMp3Generator`

Google Text-to-Speech generator.

Usage example:

```
from faker import Faker from faker_file.providers.mp3_file import Mp3FileProvider from  
faker_file.providers.mp3_file.generators.gtts_generator import (  
    GttsMp3Generator,  
)  
FAKER = Faker()  
file = Mp3FileProvider(FAKER).mp3_file(  
    mp3_generator_cls=GttsMp3Generator  
)  
generate(**kwargs) → bytes  
    Generate MP3.  
handle_kwargs(**kwargs) → None  
    Handle kwargs.  
lang: str = 'en'  
tld: str = 'com'
```

13.8.1.1.1.31 Module contents

13.8.1.1.1.32 Module contents

```
class faker_file.providers.mp3_file.Mp3FileProvider(generator: Any)
```

Bases: `BaseProvider`, `FileMixin`

MP3 file provider.

Usage example:

```
from faker import Faker from faker_file.providers.mp3_file import Mp3FileProvider  
FAKER = Faker() file = Mp3FileProvider(FAKER).mp3_file()
```

Usage example with options:

```
file = Mp3FileProvider(FAKER).mp3_file(  
    prefix="zzz", max_nb_chars=500,  
)
```

Usage example with `FileSystemStorage` storage (for *Django*):

```

from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = Mp3FileProvider(FAKER).mp3_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=500,
)

```

Default MP3 generator class is *GttsMp3Generator* which uses Google Text-to-Speech services to generate an MP3 file from given or randomly generated text. It does not require additional services to run and the only dependency here is the *gtts* package. You can however implement your own custom MP3 generator class and pass it to the *mp3_file* method in *mp3_generator_cls* argument instead of the default *GttsMp3Generator*.

Usage with custom MP3 generator class.

```

# Imaginary marytts Python library from marytts import MaryTTS
# Import BaseMp3Generator from faker_file.providers.base.mp3_generator import (
    BaseMp3Generator,
)

# Define custom MP3 generator class MaryTtsMp3Generator(BaseMp3Generator):
    locale: str = "cmu-rms-hsmm" voice: str = "en_US"

    def handle_kwargs(self, **kwargs) -> None:
        # Since it's impossible to unify all TTS systems it's allowed # to pass arbitrary arguments to the BaseMp3Generator # constructor. Each implementation class contains its own # additional tuning arguments. Check the source code of the # implemented MP3 generators as an example. if "locale" in kwargs:
            self.locale = kwargs["locale"]

        if "voice" in kwargs:
            self.voice = kwargs["voice"]

    def generate(self) -> bytes:
        # Your implementation here. Note, that self.content # in this context is the text to make MP3 from. # self.generator would be the Faker or Generator # instance from which you could extract information on # active locale. # What comes below is pseudo implementation. mary_tts = MaryTTS(locale=self.locale, voice=self.voice) return mary_tts.synth_mp3(self.content)

# Generate MP3 file from random text file = Mp3FileProvider(FAKER).mp3_file(
    mp3_generator_cls=MaryTtsMp3Generator,
)

extension: str = 'mp3'

mp3_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_AUDIO_MAX_NB_CHARS, content: Optional[str] = None, mp3_generator_cls: Optional[Union[str, Type[BaseMp3Generator]]] = DEFAULT_MP3_GENERATOR, mp3_generator_kwargs: Optional[Dict[str, Any]] = None, raw: bool = True, **kwargs) -> BytesValue

```

```
mp3_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_AUDIO_MAX_NB_CHARS, content: Optional[str] = None, mp3_generator_cls: Optional[Union[str, Type[BaseMp3Generator]]] = DEFAULT_MP3_GENERATOR, mp3_generator_kwargs: Optional[Dict[str, Any]] = None, **kwargs) → StringValue
```

Generate a MP3 file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **mp3_generator_cls** – Mp3 generator class.
- **mp3_generator_kwargs** – Mp3 generator kwargs.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.1.33 Submodules

13.8.1.1.1.34 `faker_file.providers.bin_file` module

```
class faker_file.providers.bin_file.BinFileProvider(generator: Any)
```

Bases: *BaseProvider*, *FileMixin*

BIN file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.bin_file import BinFileProvider

file = BinFileProvider(Faker()).bin_file()
```

Usage example with options:

```
file = BinFileProvider(Faker()).bin_file(
    prefix="zzz", length=1024**2,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = BinFileProvider(Faker()).bin_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", length=1024**2,
)
```

Usage example with AWS S3 storage:

```
from faker_file.storages.aws_s3 import AWSS3Storage

file = BinFileProvider(Faker()).bin_file(
    storage=AWSS3Storage(bucket_name="My-test-bucket"), prefix="zzz", length=1024**2,
)

bin_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] =
None, length: int = 1 * 1024 * 1024, content: Optional[bytes] = None, raw: bool = True,
**kwargs) → BytesValue

bin_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] =
None, length: int = 1 * 1024 * 1024, content: Optional[bytes] = None, **kwargs) → StringValue

Generate a BIN file with random bytes.
```

Parameters

- **storage** – Storage class. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **length** –
- **content** – File content. If given, used as is.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

extension: str = 'bin'

13.8.1.1.135 faker_file.providers.csv_file module

class `faker_file.providers.csv_file.CsvFileProvider(generator: Any)`

Bases: `BaseProvider`, `FileMixin`

CSV file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.csv_file import CsvFileProvider

file = CsvFileProvider(Faker()).csv_file()
```

Usage example with options:

```
from faker_file.providers.csv_file import CsvFileProvider

file = CsvFileProvider(Faker()).csv_file(
    prefix="zzz", num_rows=100, data_columns=('{{name}}', '{{sentence}}', '{{address}}'), include_row_ids=True,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = CsvFileProvider(Faker()).csv_file()
```

```
storage=FileSystemStorage(
    root_path=settings.MEDIA_ROOT, rel_path="tmp",
), prefix="zzz", num_rows=100,
)

csv_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] =
None, header: Optional[Sequence[str]] = None, data_columns: Tuple[str, ...] = ('{{name}}',
'{{address}}'), num_rows: int = 10, include_row_ids: bool = False, content: Optional[str] = None,
encoding: Optional[str] = None, raw: bool = True, **kwargs) → BytesValue

csv_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] =
None, header: Optional[Sequence[str]] = None, data_columns: Tuple[str, ...] = ('{{name}}',
'{{address}}'), num_rows: int = 10, include_row_ids: bool = False, content: Optional[str] = None,
encoding: Optional[str] = None, **kwargs) → StringValue
```

Generate a CSV file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **header** – The header argument expects a list or a tuple of strings that will serve as the header row if supplied.
- **data_columns** – The data_columns argument expects a list or a tuple of string tokens, and these string tokens will be passed to `pystr_format()` for data generation. Argument Groups are used to pass arguments to the provider methods. Both header and data_columns must be of the same length.
- **num_rows** – The num_rows argument controls how many rows of data to generate, and the include_row_ids argument may be set to `True` to include a sequential row ID column.
- **include_row_ids** –
- **content** – File content. If given, used as is.
- **encoding** – Encoding.
- **raw** – If set to `True`, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

extension: str = 'csv'

13.8.1.1.136 faker_file.providers.docx_file module

```
class faker_file.providers.docx_file.DocxFileProvider(generator: Any)
```

Bases: *BaseProvider*, *FileMixin*

DOCX file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.docx_file import DocxFileProvider

file = DocxFileProvider(Faker()).docx_file()
```


Usage example with options:

```
file = DocxFileProvider(Faker()).docx_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings from faker_file.storages.filesystem import FileSystemStorage

file = DocxFileProvider(Faker()).docx_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with content modifiers:

```
from io import BytesIO from faker_file.base import DynamicTemplate from
faker_file.providers.jpeg_file import JpegFileProvider

def add_table(provider, document, data, counter, **kwargs):

    table = document.add_table(
        kwargs.get("rows", 3), kwargs.get("cols", 4),
    ) data.setdefault("content_modifiers", { }) data["content_modifiers"].setdefault("add_table",
    { }) data["content_modifiers"]["add_table"].setdefault(counter, [])

    for row in table.rows:

        for cell in row.cells:
            text = provider.generator.paragraph() cell.text = text
            data["content_modifiers"]["add_table"][counter].append(
                text
            ) data["content"] += ("
" + text)

def add_picture(provider, document, data, counter, **kwargs):

    jpeg_file = JpegFileProvider(provider.generator).jpeg_file(
        raw=True
    ) picture = document.add_picture(BytesIO(jpeg_file))

    data.setdefault("content_modifiers", { }) data["content_modifiers"].setdefault("add_picture",
    { }) data["content_modifiers"]["add_picture"].setdefault(counter, [])

    data["content_modifiers"]["add_picture"][counter].append(
        jpeg_file.data["content"]
    ) data["content"] += ("
" + jpeg_file.data["content"])

    file = DocxFileProvider(Faker()).docx_file(
        content=DynamicTemplate([(add_table, { }), (add_picture, { })])
    )
```

```
docx_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[Union[str, DynamicTemplate]] = None, raw: bool = True, **kwargs) → BytesValue
```

```
docx_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[Union[str, DynamicTemplate]] = None, **kwargs) → StringValue
```

Generate a DOCX file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements (still being a string), which are then replaced by correspondent fixtures. Can alternatively be a *DynamicTemplate* - list of content modifiers (callables to call after the document instance has been created). Each callable should accept the following arguments: provider, document, data, counter and ****kwargs**.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

extension: str = 'docx'

13.8.1.1.1.37 faker_file.providers.eml_file module

```
class faker_file.providers.eml_file.EmlFileProvider(generator: Any)
```

Bases: BaseProvider, *FileMixin*

EML file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.eml_file import EmlFileProvider

FAKER = Faker()

file = EmlFileProvider(FAKER).eml_file()
```

Usage example with attachments:

```
from faker_file.providers.helpers.inner import create_inner_docx_file
from faker_file.providers.eml_file import EmlFileProvider

file = EmlFileProvider(FAKER).eml_file(
    prefix="zzz_email_", options={
```

```

        "count": 5, "create_inner_file_func": create_inner_docx_file, "create_inner_file_args": {
            "prefix": "zzz_docx_file_", "max_nb_chars": 1_024,
        },
    }
)

```

Usage example of nested EMLs attachments:

```

from faker_file.providers.helpers.inner import create_inner_eml_file

file = EmlFileProvider(FAKER).eml_file(
    options={
        "create_inner_file_func": create_inner_eml_file, "create_inner_file_args": {
            "options": {
                "create_inner_file_func": create_inner_docx_file,
            }
        }
    }
)

```

If you want to see, which files were included inside the EML, check the `file.data["files"]`.

eml_file(*storage*: *Optional*[[BaseStorage](#)] = *None*, *basename*: *Optional*[*str*] = *None*, *prefix*: *Optional*[*str*] = *None*, *options*: *Optional*[*Dict*[*str*, *Any*]] = *None*, *max_nb_chars*: *int* = *DEFAULT_TEXT_MAX_NB_CHARS*, *wrap_chars_after*: *Optional*[*int*] = *None*, *content*: *Optional*[*str*] = *None*, *raw*: *bool* = *True*, ***kwargs*) → *BytesValue*

eml_file(*storage*: *Optional*[[BaseStorage](#)] = *None*, *basename*: *Optional*[*str*] = *None*, *prefix*: *Optional*[*str*] = *None*, *options*: *Optional*[*Dict*[*str*, *Any*]] = *None*, *max_nb_chars*: *int* = *DEFAULT_TEXT_MAX_NB_CHARS*, *wrap_chars_after*: *Optional*[*int*] = *None*, *content*: *Optional*[*str*] = *None*, ***kwargs*) → *StringValue*

Generate an EML file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **options** – Options (non-structured) for complex types, such as ZIP.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to *True*, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

```
extension: str = 'eml'
```

13.8.1.1.138 `faker_file.providers.epub_file` module

```
class faker_file.providers.epub_file.EpubFileProvider(generator: Any)
```

Bases: `BaseProvider`, `FileMixin`

EPUB file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.epub_file import EpubFileProvider

file = EpubFileProvider(Faker()).epub_file()
```

Usage example with options:

```
file = EpubFileProvider(Faker()).epub_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with `FileSystemStorage` storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = EpubFileProvider(Faker()).epub_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

epub_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, title: Optional[str] = None, chapter_title: Optional[str] = None, raw: bool = True, **kwargs*) → *BytesValue*

epub_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, title: Optional[str] = None, chapter_title: Optional[str] = None, **kwargs*) → *StringValue*

Generate a EPUB file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **title** – E-book title. Might contain dynamic elements, which are then replaced by correspondent fixtures.

- **chapter_title** – Chapter title. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

extension: `str = 'epub'`

13.8.1.1.139 faker_file.providers.ico_file module

class `faker_file.providers.ico_file.IcoFileProvider(generator: Any)`

Bases: `BaseProvider`, `ImageMixin`

ICO file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.png_file import IcoFileProvider

file = IcoFileProvider(Faker()).ico_file()
```

Usage example with options:

```
file = IcoFileProvider(Faker()).ico_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = IcoFileProvider(Faker()).ico_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

extension: `str = 'ico'`

ico_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_IMAGE_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, raw: bool = True, **kwargs*) → *BytesValue*

ico_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_IMAGE_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, **kwargs*) → *StringValue*

Generate an ICO file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.

- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.1.40 faker_file.providers.jpeg_file module

class `faker_file.providers.jpeg_file.JpegFileProvider(generator: Any)`

Bases: `BaseProvider`, `ImageMixin`

JPEG file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.jpeg_file import JpegFileProvider

file = JpegFileProvider(None).jpeg_file()
```

Usage example with options:

```
file = JpegFileProvider(None).jpeg_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = JpegFileProvider(Faker()).jpeg_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

extension: `str = 'jpg'`

jpeg_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_IMAGE_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, raw: bool = True, **kwargs*) → *BytesValue*

jpeg_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_IMAGE_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, **kwargs*) → *StringValue*

Generate a JPEG file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.

- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.141 faker_file.providers.odp_file module

class `faker_file.providers.odp_file.OdpFileProvider(generator: Any)`

Bases: `BaseProvider`, `FileMixin`

ODP file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.odp_file import OdpFileProvider

FAKER = Faker()

file = OdpFileProvider(FAKER).odp_file()
```

Usage example with options:

```
file = OdpFileProvider(FAKER).odp_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = OdpFileProvider(FAKER).odp_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

extension: `str = 'odp'`

odp_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, raw: bool = True, **kwargs*) → *BytesValue*

odp_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, **kwargs*) → *StringValue*

Generate an ODP file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.

- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.1.42 `faker_file.providers.ods_file` module

class `faker_file.providers.ods_file.OdsFileProvider(generator: Any)`

Bases: `BaseProvider`, `TabularDataMixin`

ODS file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.ods_file import OdsFileProvider

file = OdsFileProvider(Faker()).ods_file()
```

Usage example with options:

```
from faker import Faker
from faker_file.providers.ods_file import OdsFileProvider

file = OdsFileProvider(Faker()).ods_file(
    prefix="zzz", num_rows=100, data_columns={
        "name": "{{name}}", "residency": "{{address}}",
    }, include_row_ids=True,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = OdsFileProvider(Faker()).ods_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", num_rows=100, data_columns={
        "name": "{{name}}", "residency": "{{address}}",
    }, include_row_ids=True,
)
```

extension: `str = 'ods'`

ods_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, data_columns: Optional[Dict[str, str]] = None, num_rows: int = 10, content: Optional[str] = None, raw: bool = True, **kwargs*) → *BytesValue*

ods_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, data_columns: Optional[Dict[str, str]] = None, num_rows: int = 10, content: Optional[str] = None, **kwargs*) → *StringValue*

Generate an ODS file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **data_columns** – The *data_columns* argument expects a list or a tuple of string tokens, and these string tokens will be passed to *pystr_format()* for data generation. Argument Groups are used to pass arguments to the provider methods. Both *header* and *data_columns* must be of the same length.
- **num_rows** – The *num_rows* argument controls how many rows of data to generate, and the *include_row_ids* argument may be set to *True* to include a sequential row ID column.
- **content** – List of dicts with content (JSON-like format). If given, used as is.
- **raw** – If set to *True*, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.1.43 faker_file.providers.odt_file module

class *faker_file.providers.odt_file.OdtFileProvider*(*generator: Any*)

Bases: *BaseProvider*, *FileMixin*

ODT file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.odt_file import OdtFileProvider

FAKER = Faker()

file = OdtFileProvider(FAKER).odt_file()
```

Usage example with options:

```
file = OdtFileProvider(FAKER).odt_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = OdtFileProvider(FAKER).odt_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
```

```
)
```

Usage example with content modifiers:

```
from faker_file.base import DynamicTemplate from faker_file.providers.jpeg_file import
JpegFileProvider from odf.draw import Frame, Image from odf.style import (
    Style, TextProperties, TableColumnProperties, TableRowProperties, Table-
    CellProperties, GraphicProperties,
) from odf.table import Table, TableRow, TableCell, TableColumn from odf.text import
P

def add_table(provider, document, data, counter, **kwargs):
    table = Table() rows = kwargs.get("rows", 3) cols = kwargs.get("cols", 4)
    table_col_style = Style(name="TableColumn", family="table-column") ta-
    ble_col_style.addElement(
        TableColumnProperties(columnwidth="2cm")
    ) document.automaticstyles.addElement(table_col_style)
    table_row_style = Style(name="TableRow", family="table-row") ta-
    ble_row_style.addElement(TableRowProperties(rowheight="1cm")) docu-
    ment.automaticstyles.addElement(table_row_style)
    data.setdefault("content_modifiers", {}) data["content_modifiers"].setdefault("add_table",
    {}) data["content_modifiers"]["add_table"].setdefault(counter, [])
    table_cell_style = Style(name="TableCell", family="table-cell") ta-
    ble_cell_style.addElement(
        TableCellProperties(
            padding="0.1cm", border="0.05cm solid #000000"
        )
    ) document.automaticstyles.addElement(table_cell_style)
    # Create table table = Table() for i in range(rows):
        table.addElement(TableColumn(stylename=table_col_style))

    for row in range(cols):
        tr = TableRow(stylename=table_row_style) table.addElement(tr) for col in
        range(4):
            tc = TableCell(stylename=table_cell_style) tr.addElement(tc) text
            = provider.generator.paragraph() p = P(text=text) tc.addElement(p)
            data["content_modifiers"]["add_table"][counter].append(text)
            data["content"] += "
" + text

    document.text.addElement(table)

def add_picture(
    provider, document, data, counter, width="10cm", height="5cm", **kwargs,
):
    paragraph = P() document.text.addElement(paragraph) jpeg_file = Jpeg-
    FileProvider(provider.generator).jpeg_file() image_data = jpeg_file.data["content"] im-
    age_frame = Frame(
```

```

        width=width, height=height, x="56pt", y="56pt", anchortype="paragraph",
    )
    href = document.addPicture(jpeg_file.data["filename"])
    image_frame.addElement(Image(href=href))
    paragraph.addElement(image_frame)

    data["content"] += "

+ jpeg_file.data["content"]

    data.setdefault("content_modifiers", {})
    data["content_modifiers"].setdefault("add_picture",
    {})
    data["content_modifiers"]["add_picture"].setdefault(counter, [])

    data["content_modifiers"]["add_picture"][counter].append(
        jpeg_file.data["content"]
    )

    file = OdtFileProvider(FAKER).odt_file(
        content=DynamicTemplate([(add_table, {}), (add_picture, {})])
    )

extension: str = 'odt'

odt_file(storage: Optional[BaseStorage] = None,
    basename: Optional[str] = None,
    prefix: Optional[str] = None,
    max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS,
    wrap_chars_after: Optional[int] = None,
    content: Optional[Union[str, DynamicTemplate]] = None,
    raw: bool = True,
    **kwargs) → BytesValue

odt_file(storage: Optional[BaseStorage] = None,
    basename: Optional[str] = None,
    prefix: Optional[str] = None,
    max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS,
    wrap_chars_after: Optional[int] = None,
    content: Optional[Union[str, DynamicTemplate]] = None,
    **kwargs) → StringValue

```

Generate an ODT file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.1.44 `faker_file.providers.pdf_file` module

class `faker_file.providers.pdf_file.PdfFileProvider(generator: Any)`

Bases: `BaseProvider`, `FileMixin`

PDF file provider.

Usage example:

```
from faker_file.providers.pdf_file import PdfFileProvider

file = PdfFileProvider(None).pdf_file()
```

Usage example with options:

```
from faker_file.providers.pdf_file import PdfFileProvider

file = PdfFileProvider(None).pdf_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with `FileSystemStorage` storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = PdfFileProvider(Faker()).pdf_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Default PDF generator class is `PdfkitPdfGenerator` which uses `pdfkit` Python package and `wkhtmltopdf` system package for generating PDFs from randomly generated text. The quality of the produced PDFs is very good, but it's less performant than `ReportlabPdfGenerator` (factor 40x), which does not require additional system dependencies to run. To use it, pass `ReportlabPdfGenerator` class in `pdf_generator_cls` argument.

```
from faker_file.providers.pdf_file.generators import (
    reportlab_generator,
)

file = PdfFileProvider(None).pdf_file(
    max_nb_chars=1_000, wrap_chars_after=80, pdf_generator_cls=reportlab_generator.ReportlabPdfGenerator,
)
```

extension: `str = 'pdf'`

pdf_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[Union[str, DynamicTemplate]] = None, pdf_generator_cls: Optional[Union[str, Type[BasePdfGenerator]]] = DEFAULT_PDF_GENERATOR, pdf_generator_kwargs: Optional[Dict[str, Any]] = None, raw: bool = True, **kwargs*) → *BytesValue*

pdf_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[Union[str, DynamicTemplate]] = None, pdf_generator_cls: Optional[Union[str, Type[BasePdfGenerator]]] = DEFAULT_PDF_GENERATOR, pdf_generator_kwargs: Optional[Dict[str, Any]] = None, **kwargs*) → *StringValue*

Generate a PDF file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **pdf_generator_cls** – PDF generator class.
- **pdf_generator_kwargs** – PDF generator kwargs.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.1.45 `faker_file.providers.png_file` module

class `faker_file.providers.png_file.PngFileProvider(generator: Any)`

Bases: `BaseProvider`, `ImageMixin`

PNG file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.png_file import PngFileProvider

file = PngFileProvider(Faker()).png_file()
```

Usage example with options:

```
file = PngFileProvider(Faker()).png_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = PngFileProvider(Faker()).png_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

```
extension: str = 'png'
```

```
png_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] =  
None, max_nb_chars: int = DEFAULT_IMAGE_MAX_NB_CHARS, wrap_chars_after:  
Optional[int] = None, content: Optional[str] = None, raw: bool = True, **kwargs) → BytesValue
```

```
png_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] =  
None, max_nb_chars: int = DEFAULT_IMAGE_MAX_NB_CHARS, wrap_chars_after:  
Optional[int] = None, content: Optional[str] = None, **kwargs) → StringValue
```

Generate a PNG file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.146 faker_file.providers.pptx_file module

```
class faker_file.providers.pptx_file.PptxFileProvider(generator: Any)
```

Bases: *BaseProvider*, *FileMixin*

PPTX file provider.

Usage example:

```
from faker_file.providers.pptx_file import PptxFileProvider  
file = PptxFileProvider(None).pptx_file()
```

Usage example with options:

```
from faker_file.providers.pptx_file import PptxFileProvider  
  
file = PptxFileProvider(None).pptx_file(  
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,  
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings from faker_file.storages.filesystem import FileSystemStorage  
  
file = PptxFileProvider(Faker()).pptx_file(  
    storage=FileSystemStorage(  
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
```

```

    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)

extension:  str = 'pptx'

pptx_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str]
           = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after:
           Optional[int] = None, content: Optional[str] = None, raw: bool = True, **kwargs) → BytesValue

pptx_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str]
           = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after:
           Optional[int] = None, content: Optional[str] = None, **kwargs) → StringValue

```

Generate a file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.1.47 `faker_file.providers.random_file_from_dir` module

```

class faker_file.providers.random_file_from_dir.RandomFileFromDirProvider(generator: Any)
    Bases: BaseProvider, FileMixin

```

Random file from given directory provider.

Usage example:

```

from faker_file.providers.random_file_from_dir import (
    RandomFileFromDirProvider,
)

file = RandomFileFromDirProvider(None).random_file_from_dir(
    source_dir_path="/tmp/tmp/",
)

```

Usage example with options:

```

from faker_file.providers.random_file_from_dir import (
    RandomFileFromDirProvider,
)

```

```
file = RandomFileFromDirProvider(None).random_file_from_dir(
    source_dir_path="/tmp/tmp/", prefix="zzz",
)

extension: str = ''

random_file_from_dir(source_dir_path: str, storage: Optional[BaseStorage] = None, basename:
    Optional[str] = None, prefix: Optional[str] = None, raw: bool = True, **kwargs)
    → BytesValue

random_file_from_dir(source_dir_path: str, storage: Optional[BaseStorage] = None, basename:
    Optional[str] = None, prefix: Optional[str] = None, **kwargs) → StringValue
```

Pick a random file from given directory.

Parameters

- **source_dir_path** – Source files directory.
- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.148 faker_file.providers.rtf_file module

```
class faker_file.providers.rtf_file.RtfFileProvider(generator: Any)
```

Bases: *BaseProvider*, *FileMixin*

RTF file provider.

Usage example:

```
from faker_file.providers.rtf_file import RtfFileProvider
file = RtfFileProvider(None).rtf_file()
```

Usage example with options:

```
from faker_file.providers.rtf_file import RtfFileProvider
file = RtfFileProvider(None).rtf_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings from faker_file.storages.filesystem import FileSystemStorage
file = RtfFileProvider(Faker()).rtf_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```



```
extension: str = 'rtf'
```

```
rtf_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] =
None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after:
Optional[int] = None, content: Optional[str] = None, raw: bool = True, **kwargs) → BytesValue
```

```
rtf_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] =
None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after:
Optional[int] = None, content: Optional[str] = None, **kwargs) → StringValue
```

Generate a RTF file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.149 faker_file.providers.svg_file module

```
class faker_file.providers.svg_file.SvgFileProvider(generator: Any)
```

Bases: *BaseProvider*, *ImageMixin*

SVG file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.svg_file import SvgFileProvider

file = SvgFileProvider(Faker()).svg_file()
```

Usage example with options:

```
file = SvgFileProvider(Faker()).svg_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with *FileSystemStorage* storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = SvgFileProvider(Faker()).svg_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
```

```
)  
  
extension: str = 'svg'  
  
svg_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] =  
None, max_nb_chars: int = DEFAULT_IMAGE_MAX_NB_CHARS, wrap_chars_after:  
Optional[int] = None, content: Optional[str] = None, raw: bool = True, **kwargs) → BytesValue  
  
svg_file(storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] =  
None, max_nb_chars: int = DEFAULT_IMAGE_MAX_NB_CHARS, wrap_chars_after:  
Optional[int] = None, content: Optional[str] = None, **kwargs) → StringValue
```

Generate an SVG file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.1.50 `faker_file.providers.tar_file` module

```
class faker_file.providers.tar_file.TarFileProvider(generator: Any)
```

Bases: `BaseProvider`, `FileMixin`

TAR file provider.

Usage example:

```
from faker import Faker  
from faker_file.providers.tar_file import TarFileProvider  
  
FAKER = Faker()  
  
file = TarFileProvider(FAKER).tar_file()
```

Usage example with options:

```
from faker_file.providers.helpers.inner import create_inner_docx_file  
from faker_file.providers.tar_file import TarFileProvider  
  
file = TarFileProvider(FAKER).tar_file(  
    prefix="ttt_archive_", options={  
        "count": 5, "create_inner_file_func": create_inner_docx_file, "create_inner_file_args": {  
            "prefix": "ttt_docx_file_", "max_nb_chars": 1_024,  
        }, "directory": "ttt",
```

```
    },
)
```

Usage example of nested TARs:

```
from faker_file.providers.helpers.inner import create_inner_tar_file

file = TarFileProvider(FAKER).tar_file(
    options={
        "create_inner_file_func": create_inner_tar_file, "create_inner_file_args": {
            "options": {
                "create_inner_file_func": create_inner_docx_file,
            }
        }
    },
)
```

If you want to see, which files were included inside the TAR, check the `file.data["files"]`.

extension: `str = 'tar'`

tar_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, options: Optional[Dict[str, Any]] = None, compression: Optional[str] = None, raw: bool = True, **kwargs*) → *BytesValue*

tar_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, options: Optional[Dict[str, Any]] = None, compression: Optional[str] = None, **kwargs*) → *StringValue*

Generate a TAR file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **options** – Options (non-structured) for complex types, such as ZIP.
- **compression** – Desired compression. Can be *None* or *gz*, *bz2* or *xz*.
- **raw** – If set to *True*, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.151 `faker_file.providers.txt_file` module

class `faker_file.providers.txt_file.TxtFileProvider(generator: Any)`

Bases: `BaseProvider`, `FileMixin`

TXT file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.txt_file import TxtFileProvider

file = TxtFileProvider(Faker()).txt_file()
```

Usage example with options:

```
file = TxtFileProvider(Faker()).txt_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with `FileSystemStorage` storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = TxtFileProvider(Faker()).txt_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

extension: `str = 'txt'`

txt_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, raw: bool = True, **kwargs*) → *BytesValue*

txt_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_TEXT_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, **kwargs*) → *StringValue*

Generate a TXT file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to `True`, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.1.52 faker_file.providers.webp_file module

class `faker_file.providers.webp_file.WebpFileProvider(generator: Any)`

Bases: `BaseProvider`, `ImageMixin`

WEBP file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.webp_file import WebpFileProvider

file = WebpFileProvider(Faker()).webp_file()
```

Usage example with options:

```
file = WebpFileProvider(Faker()).webp_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

Usage example with `FileSystemStorage` storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = WebpFileProvider(Faker()).webp_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)
```

extension: `str = 'webp'`

webp_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_IMAGE_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, raw: bool = True, **kwargs*) → *BytesValue*

webp_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, max_nb_chars: int = DEFAULT_IMAGE_MAX_NB_CHARS, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, **kwargs*) → *StringValue*

Generate a WEBP file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **max_nb_chars** – Max number of chars for the content.
- **wrap_chars_after** – If given, the output string would be separated by line breaks after the given position.
- **content** – File content. Might contain dynamic elements, which are then replaced by correspondent fixtures.
- **raw** – If set to `True`, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.1.53 `faker_file.providers.xlsx_file` module

class `faker_file.providers.xlsx_file.XlsxFileProvider(generator: Any)`

Bases: `BaseProvider`, `TabularDataMixin`

XLSX file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.xlsx_file import XlsxFileProvider

file = XlsxFileProvider(Faker()).xlsx_file()
```

Usage example with options:

```
from faker import Faker
from faker_file.providers.xlsx_file import XlsxFileProvider

file = XlsxFileProvider(Faker()).xlsx_file(
    prefix="zzz", num_rows=100, data_columns={
        "name": "{{name}}", "residency": "{{address}}",
    }, include_row_ids=True,
)
```

Usage example with `FileSystemStorage` storage (for *Django*):

```
from django.conf import settings
from faker_file.storages.filesystem import FileSystemStorage

file = XlsxFileProvider(Faker()).xlsx_file(
    storage=FileSystemStorage(
        root_path=settings.MEDIA_ROOT, rel_path="tmp",
    ), prefix="zzz", num_rows=100, data_columns={
        "name": "{{name}}", "residency": "{{address}}",
    }, include_row_ids=True,
)
```

extension: `str = 'xlsx'`

xlsx_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, data_columns: Optional[Dict[str, str]] = None, num_rows: int = 10, content: Optional[str] = None, raw: bool = True, **kwargs*) → *BytesValue*

xlsx_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, data_columns: Optional[Dict[str, str]] = None, num_rows: int = 10, content: Optional[str] = None, **kwargs*) → *StringValue*

Generate a XLSX file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **data_columns** – The `data_columns` argument expects a list or a tuple of string tokens, and these string tokens will be passed to `pystr_format()` for data generation. Argument Groups are used to pass arguments to the provider methods. Both `header` and `data_columns` must be of the same length.

- **num_rows** – The `num_rows` argument controls how many rows of data to generate, and the `include_row_ids` argument may be set to `True` to include a sequential row ID column.
- **content** – List of dicts with content (JSON-like format). If given, used as is.
- **raw** – If set to `True`, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.154 faker_file.providers.zip_file module

class `faker_file.providers.zip_file.ZipFileProvider(generator: Any)`

Bases: `BaseProvider`, `FileMixin`

ZIP file provider.

Usage example:

```
from faker import Faker
from faker_file.providers.zip_file import ZipFileProvider

FAKER = Faker()

file = ZipFileProvider(FAKER).zip_file()
```

Usage example with options:

```
from faker_file.providers.helpers.inner import create_inner_docx_file
from faker_file.providers.zip_file import ZipFileProvider

file = ZipFileProvider(FAKER).zip_file(
    prefix="zzz_archive_", options={
        "count": 5, "create_inner_file_func": create_inner_docx_file, "create_inner_file_args": {
            "prefix": "zzz_docx_file_", "max_nb_chars": 1_024,
        }, "directory": "zzz",
    },
)
```

Usage example of nested ZIPs:

```
from faker_file.providers.helpers.inner import create_inner_zip_file

file = ZipFileProvider(FAKER).zip_file(
    options={
        "create_inner_file_func": create_inner_zip_file, "create_inner_file_args": {
            "options": {
                "create_inner_file_func": create_inner_docx_file,
            },
        },
    },
)
```

If you want to see, which files were included inside the ZIP, check the `file.data["files"]`.

extension: `str = 'zip'`

zip_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, options: Optional[Dict[str, Any]] = None, raw: bool = True, **kwargs*) → *BytesValue*

zip_file(*storage: Optional[BaseStorage] = None, basename: Optional[str] = None, prefix: Optional[str] = None, options: Optional[Dict[str, Any]] = None, **kwargs*) → *Union[BytesValue, StringValue]*

Generate a ZIP file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **basename** – File basename (without extension).
- **prefix** – File name prefix.
- **options** – Options (non-structured) for complex types, such as ZIP.
- **raw** – If set to True, return *BytesValue* (binary content of the file). Otherwise, return *StringValue* (path to the saved file).

Returns

Relative path (from root directory) of the generated file or raw content of the file.

13.8.1.1.155 Module contents

13.8.1.1.2 faker_file.storages package

13.8.1.1.2.1 Submodules

13.8.1.1.2.2 faker_file.storages.aws_s3 module

```
class faker_file.storages.aws_s3.AWSS3Storage(bucket_name: str, root_path: Optional[str] = 'tmp',
                                              rel_path: Optional[str] = 'tmp', credentials:
                                              Optional[Dict[str, Any]] = None, *args, **kwargs)
```

Bases: *CloudStorage*

AWS S3 Storage.

Usage example:

```
from faker_file.storages.aws_s3 import AWSS3Storage

s3_storage = AWSS3Storage(
    bucket_name="artur-testing-1", rel_path="tmp",
) file = s3_storage.generate_filename(prefix="zzz_", extension="docx") s3_storage.write_text(file,
"Lorem ipsum") s3_storage.write_bytes(file, b"Lorem ipsum")
```

authenticate(*key_id: str, key_secret: str, **kwargs*) → *None*

Authenticate to AWS S3.

schema: `str = 's3'`

13.8.1.1.2.3 `faker_file.storages.azure_cloud_storage` module

```
class faker_file.storages.azure_cloud_storage.AzureCloudStorage(bucket_name: str, root_path:
    Optional[str] = 'tmp', rel_path:
    Optional[str] = 'tmp',
    credentials: Optional[Dict[str,
    Any]] = None, *args, **kwargs)
```

Bases: `CloudStorage`

Azure Cloud Storage.

Usage example:

```
from faker_file.storages.azure_cloud_storage import AzureCloudStorage

azure_storage = AzureCloudStorage(
    bucket_name="artur-testing-1", rel_path="tmp",
)
file = azure_storage.generate_filename(prefix="ZZZ_", extension="docx")
azure_storage.write_text(file, "Lorem ipsum")
azure_storage.write_bytes(file, b"Lorem ipsum")
```

authenticate(connection_string: str, **kwargs) → None

Authenticate to Azure Cloud Storage.

bucket: Pathy

bucket_name: str

credentials: Dict[str, str]

schema: Optional[str] = 'azure'

13.8.1.1.2.4 `faker_file.storages.base` module

```
class faker_file.storages.base.BaseStorage(*args, **kwargs)
```

Bases: object

Base storage.

abspath(filename: Any) → str

Return absolute path.

exists(filename: Any) → bool

Check if file exists.

generate_filename(extension: str, prefix: Optional[str] = None, basename: Optional[str] = None) → Any

Generate filename.

relpath(filename: Any) → str

Return relative path.

write_bytes(filename: Any, data: bytes) → int

Write bytes.

write_text(filename: Any, data: str, encoding: Optional[str] = None) → int

Write text.

13.8.1.1.2.5 faker_file.storages.cloud module

```
class faker_file.storages.cloud.CloudStorage(bucket_name: str, root_path: Optional[str] = 'tmp',
                                             rel_path: Optional[str] = 'tmp', credentials:
                                             Optional[Dict[str, Any]] = None, *args, **kwargs)
```

Bases: [BaseStorage](#)

Base cloud storage.

abspath(filename: Pathy) → str

Return relative path.

abstract authenticate(*args, **kwargs)

bucket: Pathy

bucket_name: str

credentials: Dict[str, str]

exists(filename: Union[Pathy, str]) → bool

Check if file exists.

generate_filename(extension: str, prefix: Optional[str] = None, basename: Optional[str] = None) → Pathy

Generate filename.

relpath(filename: Pathy) → str

Return relative path.

schema: Optional[str] = None

write_bytes(filename: Pathy, data: bytes) → int

Write bytes.

write_text(filename: Pathy, data: str, encoding: Optional[str] = None) → int

Write text.

```
class faker_file.storages.cloud.PathyFileSystemStorage(bucket_name: str, root_path: Optional[str]
                                                       = 'tmp', rel_path: Optional[str] = 'tmp',
                                                       credentials: Optional[Dict[str, Any]] =
                                                       None, *args, **kwargs)
```

Bases: [CloudStorage](#)

Pathy FileSystem Storage.

Usage example:

```
from faker_file.storages.cloud import PathyFileSystemStorage
```

```
fs_storage = PathyFileSystemStorage(bucket_name="artur-testing-1") file =
fs_storage.generate_filename(prefix="zzz_", extension="docx") fs_storage.write_text(file, "Lorem
ipsum") fs_storage.write_bytes(file, b"Lorem ipsum")
```

authenticate(**kwargs) → None

Authenticate. Does nothing.

schema: str = 'file'

13.8.1.1.2.6 faker_file.storages.filesystem module

```
class faker_file.storages.filesystem.FileSystemStorage(root_path: Optional[str] = '/tmp', rel_path:
Optional[str] = 'tmp', *args, **kwargs)
```

Bases: [BaseStorage](#)

File storage.

Usage example:

```
from faker_file.storages.filesystem import FileSystemStorage

storage = FileSystemStorage() file = storage.generate_filename(prefix="zzz_", extension="docx")
storage.write_text(file, "Lorem ipsum") storage.write_bytes(file, b"Lorem ipsum")
```

Initialization with params:

```
storage = FileSystemStorage()
```

abspath(filename: *str*) → *str*

Return absolute path.

exists(filename: *str*) → *bool*

Write bytes.

generate_filename(extension: *str*, prefix: *Optional[str] = None*, basename: *Optional[str] = None*) → *str*

Generate filename.

relpath(filename: *str*) → *str*

Return relative path.

write_bytes(filename: *str*, data: *bytes*) → *int*

Write bytes.

write_text(filename: *str*, data: *str*, encoding: *Optional[str] = None*) → *int*

Write text.

13.8.1.1.2.7 faker_file.storages.google_cloud_storage module

```
class faker_file.storages.google_cloud_storage.GoogleCloudStorage(bucket_name: str, root_path:
Optional[str] = 'tmp',
rel_path: Optional[str] =
'tmp', credentials:
Optional[Dict[str, Any]] =
None, *args, **kwargs)
```

Bases: [CloudStorage](#)

Google Cloud Storage.

Usage example:

```
from faker_file.storages.google_cloud_storage import GoogleCloudStorage

gs_storage = GoogleCloudStorage(
    bucket_name="artur-testing-1", rel_path="tmp",
) file = gs_storage.generate_filename(prefix="zzz_", extension="docx") gs_storage.write_text(file,
"Lorem ipsum") gs_storage.write_bytes(file, b"Lorem ipsum")
```

authenticate(*json_file_path: str, **kwargs*) → None

Authenticate to Google Cloud Storage.

bucket: Pathy

bucket_name: str

credentials: Dict[str, str]

schema: Optional[str] = 'gs'

13.8.1.1.2.8 Module contents

13.8.1.1.3 faker_file.tests package

13.8.1.1.3.1 Submodules

13.8.1.1.3.2 faker_file.tests.test_augment_file_from_dir_provider module

13.8.1.1.3.3 faker_file.tests.test_django_integration module

class `faker_file.tests.test_django_integration.DjangoIntegrationTestCase`(*methodName='runTest'*)

Bases: TestCase

Django integration test case.

FAKER: Faker

test_file

13.8.1.1.3.4 faker_file.tests.test_providers module

class `faker_file.tests.test_providers.ProvidersTestCase`(*methodName='runTest'*)

Bases: TestCase

Providers test case.

setUp()

Hook method for setting up the test fixture before exercising it.

test_broken_imports

test_faker

test_faker_retry_failures

test_load_class_from_non_existing_path() → None

Test load_class_from_path invalid path.

test_load_class_from_path_class_not_found() → None

Test load_class_from_path class not found.

test_load_class_from_path_no_class_type() → None

Test load_class_from_path imported is not class.

```
test_mp3_file_generate_not_implemented_exception()
test_pdf_file_generate_not_implemented_exception()
test_raw_standalone_providers
test_raw_standalone_providers_allow_failures
test_raw_standalone_providers_retry_failures
test_standalone_providers
test_standalone_providers_allow_failures
test_standalone_providers_retry_failures
test_standalone_tar_file
test_standalone_tar_file_allow_failures
test_standalone_zip_file
test_standalone_zip_file_allow_failures
```

13.8.1.1.3.5 `faker_file.tests.test_sqlalchemy_integration` module

13.8.1.1.3.6 `faker_file.tests.test_storages` module

```
class faker_file.tests.test_storages.TestStoragesTestCase(methodName='runTest')
```

```
    Bases: TestCase
```

```
    Test storages.
```

```
    test_base_storage_exceptions
```

```
    test_cloud_storage_exceptions
```

```
    test_file_system_storage_abspath()
```

```
        Test FileSystemStorage abspath.
```

```
    test_pathy_file_system_storage_abspath()
```

```
        Test PathyFileSystemStorage abspath.
```

```
    test_storage
```

```
    test_storage_generate_filename_exceptions
```

```
    test_storage_initialization_exceptions
```

13.8.1.1.3.7 `faker_file.tests.texts` module

13.8.1.1.3.8 Module contents

13.8.1.2 Submodules

13.8.1.3 `faker_file.base` module

class `faker_file.base.BytesValue`

Bases: `bytes`

data: `Dict[str, Any] = {}`

class `faker_file.base.DynamicTemplate`(*content_modifiers: List[Tuple[callable, Dict[str, Any]]]*)

Bases: `object`

Dynamic template.

class `faker_file.base.FileMixin`

Bases: `object`

File mixin.

extension: `str`

formats: `List[str]`

generator: `Union[Faker, Generator, Provider]`

numerify: `Callable`

random_element: `Callable`

class `faker_file.base.StringList`(*strings: Optional[List[str]] = None, separator: str = ' '*)

Bases: `object`

String list.

Usage example:

```
my_string = StringList(separator="
```

```
"
```

```
my_string += "grape" my_string += "peaches" print(my_string)
```

add_string(*value: str*) → `None`

remove_string(*value: str*) → `None`

class `faker_file.base.StringValue`

Bases: `str`

data: `Dict[str, Any] = {}`

`faker_file.base.returns_list`(*func: Callable*) → `bool`

Checks if callable returns a list of `Union[BytesValue, StringValue]`.

Returns True if it's a List. Returns False otherwise.

13.8.1.4 `faker_file.constants` module

13.8.1.5 `faker_file.helpers` module

`faker_file.helpers.load_class_from_path(full_path: str) → Type`

Load a class from a given full path string identifier.

Parameters

full_path – The full path to the class, e.g. ‘module.submodule.MyClass’.

Returns

The loaded class.

Raise

If the module cannot be found or the class does not exist in the module, it raises `ImportError`.

Usage example:

```
my_class = load_class_from_path("module.submodule.MyClass") instance = my_class()
```

`faker_file.helpers.wrap_text(text: str, wrap_chars_after: int) → str`

13.8.1.6 Module contents

13.9 Indices and tables

- [genindex](#)
- [modindex](#)
- [search](#)

PYTHON MODULE INDEX

f

- [faker_file](#), 127
- [faker_file.base](#), 126
- [faker_file.constants](#), 127
- [faker_file.helpers](#), 127
- [faker_file.providers](#), 120
- [faker_file.providers.augment_file_from_dir.augmenters](#), 78
- [faker_file.providers.bin_file](#), 94
- [faker_file.providers.csv_file](#), 95
- [faker_file.providers.docx_file](#), 96
- [faker_file.providers.eml_file](#), 98
- [faker_file.providers.epub_file](#), 100
- [faker_file.providers.helpers](#), 90
- [faker_file.providers.helpers.inner](#), 78
- [faker_file.providers.ico_file](#), 101
- [faker_file.providers.jpeg_file](#), 102
- [faker_file.providers.mixins](#), 91
- [faker_file.providers.mixins.image_mixin](#), 90
- [faker_file.providers.mixins.tablular_data_mixin](#), 90
- [faker_file.providers.mp3_file](#), 92
- [faker_file.providers.mp3_file.generators](#), 92
- [faker_file.providers.mp3_file.generators.edge_tts_generator](#), 91
- [faker_file.providers.mp3_file.generators.gtts_generator](#), 92
- [faker_file.providers.odp_file](#), 103
- [faker_file.providers.ods_file](#), 104
- [faker_file.providers.odt_file](#), 105
- [faker_file.providers.pdf_file](#), 108
- [faker_file.providers.png_file](#), 109
- [faker_file.providers.pptx_file](#), 110
- [faker_file.providers.random_file_from_dir](#), 111
- [faker_file.providers.rtf_file](#), 112
- [faker_file.providers.svg_file](#), 113
- [faker_file.providers.tar_file](#), 114
- [faker_file.providers.txt_file](#), 116
- [faker_file.providers.webp_file](#), 117
- [faker_file.providers.xlsx_file](#), 118
- [faker_file.providers.zip_file](#), 119
- [faker_file.storages](#), 124
- [faker_file.storages.aws_s3](#), 120
- [faker_file.storages.azure_cloud_storage](#), 121
- [faker_file.storages.base](#), 121
- [faker_file.storages.cloud](#), 122
- [faker_file.storages.filesystem](#), 123
- [faker_file.storages.google_cloud_storage](#), 123
- [faker_file.tests](#), 126
- [faker_file.tests.test_django_integration](#), 124
- [faker_file.tests.test_providers](#), 124
- [faker_file.tests.test_storages](#), 125
- [faker_file.tests.texts](#), 126

A

`abspath()` (*faker_file.storages.base.BaseStorage* method), 121

`abspath()` (*faker_file.storages.cloud.CloudStorage* method), 122

`abspath()` (*faker_file.storages.filesystem.FileSystemStorage* method), 123

`add_string()` (*faker_file.base.StringList* method), 126

`authenticate()` (*faker_file.storages.aws_s3.AWSS3Storage* method), 120

`authenticate()` (*faker_file.storages.azure_cloud_storage.AzureCloudStorage* method), 121

`authenticate()` (*faker_file.storages.cloud.CloudStorage* method), 122

`authenticate()` (*faker_file.storages.cloud.PathyFileSystemStorage* method), 122

`authenticate()` (*faker_file.storages.google_cloud_storage.GoogleCloudStorage* method), 123

AWSS3Storage (class in *faker_file.storages.aws_s3*), 120

AzureCloudStorage (class in *faker_file.storages.azure_cloud_storage*), 121

B

BaseStorage (class in *faker_file.storages.base*), 121

`bin_file()` (*faker_file.providers.bin_file.BinFileProvider* method), 95

BinFileProvider (class in *faker_file.providers.bin_file*), 94

`bucket` (*faker_file.storages.azure_cloud_storage.AzureCloudStorage* attribute), 121

`bucket` (*faker_file.storages.cloud.CloudStorage* attribute), 122

`bucket` (*faker_file.storages.google_cloud_storage.GoogleCloudStorage* attribute), 124

`bucket_name` (*faker_file.storages.azure_cloud_storage.AzureCloudStorage* attribute), 121

`bucket_name` (*faker_file.storages.cloud.CloudStorage* attribute), 122

`bucket_name` (*faker_file.storages.google_cloud_storage.GoogleCloudStorage* attribute), 124

BytesValue (class in *faker_file.base*), 126

C

CloudStorage (class in *faker_file.storages.cloud*), 122

`create_inner_bin_file()` (in *faker_file.providers.helpers.inner*), 78

`create_inner_csv_file()` (in *faker_file.providers.helpers.inner*), 79

`create_inner_docx_file()` (in *faker_file.providers.helpers.inner*), 79

`create_inner eml_file()` (in *faker_file.providers.helpers.inner*), 79

`create_inner_gif_file()` (in *faker_file.providers.helpers.inner*), 80

`create_inner_generic_file()` (in *faker_file.providers.helpers.inner*), 80

`create_inner_ico_file()` (in *faker_file.providers.helpers.inner*), 81

`create_inner_jpeg_file()` (in *faker_file.providers.helpers.inner*), 81

`create_inner_mp3_file()` (in *faker_file.providers.helpers.inner*), 82

`create_inner_odp_file()` (in *faker_file.providers.helpers.inner*), 82

`create_inner_ods_file()` (in *faker_file.providers.helpers.inner*), 83

`create_inner_odt_file()` (in *faker_file.providers.helpers.inner*), 83

`create_inner_pdf_file()` (in *faker_file.providers.helpers.inner*), 83

`create_inner_png_file()` (in *faker_file.providers.helpers.inner*), 84

`create_inner_pptx_file()` (in *faker_file.providers.helpers.inner*), 84

`create_inner_rtf_file()` (in *faker_file.providers.helpers.inner*), 85

`create_inner_svg_file()` (in *faker_file.providers.helpers.inner*), 85

`create_inner_tar_file()` (in *faker_file.providers.helpers.inner*), 86

`create_inner_txt_file()` (in *faker_file.providers.helpers.inner*), 86

`create_inner_webp_file()` (in *faker_file.providers.helpers.inner*), 86

`create_inner_xlsx_file()` (in module `extension(faker_file.providers.eml_file.EmlFileProvider attribute), 99`
`faker_file.providers.helpers.inner`), 87
`create_inner_xml_file()` (in module `extension(faker_file.providers.epub_file.EpubFileProvider attribute), 101`
`faker_file.providers.helpers.inner`), 87
`create_inner_zip_file()` (in module `extension(faker_file.providers.ico_file.IcoFileProvider attribute), 101`
`faker_file.providers.helpers.inner`), 88
`credentials(faker_file.storages.azure_cloud_storage.AzureCloudStorage attribute), 121`
`extension(faker_file.providers.jpeg_file.JpegFileProvider attribute), 102`
`credentials(faker_file.storages.cloud.CloudStorage attribute), 122`
`extension(faker_file.providers.mixins.image_mixin.ImageMixin attribute), 90`
`credentials(faker_file.storages.google_cloud_storage.GoogleCloudStorage attribute), 124`
`extension(faker_file.providers.mixins.tablular_data_mixin.TabularData attribute), 90`
`csv_file(faker_file.providers.csv_file.CsvFileProvider method), 96`
`extension(faker_file.providers.mp3_file.Mp3FileProvider attribute), 93`
`CsvFileProvider` (class in `extension(faker_file.providers.odp_file.OdpFileProvider attribute), 103`
`faker_file.providers.csv_file`), 95
`extension(faker_file.providers.ods_file.OdsFileProvider attribute), 104`
`extension(faker_file.providers.odt_file.OdtFileProvider attribute), 107`
D
`data(faker_file.base.BytesValue attribute), 126`
`data(faker_file.base.StringValue attribute), 126`
`DjangoIntegrationTestCase` (class in `extension(faker_file.providers.pdf_file.PdfFileProvider attribute), 108`
`faker_file.tests.test_django_integration`), 124
`extension(faker_file.providers.png_file.PngFileProvider attribute), 109`
`docx_file(faker_file.providers.docx_file.DocxFileProvider method), 97`
`extension(faker_file.providers.pptx_file.PptxFileProvider attribute), 111`
`DocxFileProvider` (class in `extension(faker_file.providers.random_file_from_dir.RandomFileFromDir attribute), 112`
`faker_file.providers.docx_file`), 96
`extension(faker_file.providers.rtf_file.RtfFileProvider attribute), 112`
`DynamicTemplate` (class in `extension(faker_file.providers.svg_file.SvgFileProvider attribute), 114`
`faker_file.base`), 126
`extension(faker_file.providers.tar_file.TarFileProvider attribute), 115`
E
`EdgeTtsMp3Generator` (class in `extension(faker_file.providers.txt_file.TxtFileProvider attribute), 116`
`faker_file.providers.mp3_file.generators.edge_tts_generator`), 91
`extension(faker_file.providers.webp_file.WebpFileProvider attribute), 117`
`eml_file(faker_file.providers.eml_file.EmlFileProvider method), 99`
`extension(faker_file.providers.xlsx_file.XlsxFileProvider attribute), 118`
`EmlFileProvider` (class in `extension(faker_file.providers.zip_file.ZipFileProvider attribute), 120`
`faker_file.providers.eml_file`), 98
`epub_file(faker_file.providers.epub_file.EpubFileProvider method), 100`
`extension(faker_file.providers.xlsx_file.XlsxFileProvider attribute), 118`
`EpubFileProvider` (class in `extension(faker_file.providers.zip_file.ZipFileProvider attribute), 120`
`faker_file.providers.epub_file`), 100
`exists(faker_file.storages.base.BaseStorage method), 121`
F
`exists(faker_file.storages.cloud.CloudStorage method), 122`
`exists(faker_file.storages.filesystem.FileSystemStorage method), 123`
`extension(faker_file.base.FileMixin attribute), 126`
`extension(faker_file.providers.bin_file.BinFileProvider attribute), 95`
`extension(faker_file.providers.csv_file.CsvFileProvider attribute), 96`
`extension(faker_file.providers.docx_file.DocxFileProvider attribute), 98`
`FAKER(faker_file.tests.test_django_integration.DjangoIntegrationTestCase attribute), 124`
`faker_file`
`module, 127`
`faker_file.base`
`module, 126`
`faker_file.constants`
`module, 127`
`faker_file.helpers`
`module, 127`

<code>faker_file.providers</code>	<code>faker_file.providers.tar_file</code>
module, 120	module, 114
<code>faker_file.providers.augment_file_from_dir.augmenter</code>	<code>faker_file.providers.txt_file</code>
module, 78	module, 116
<code>faker_file.providers.bin_file</code>	<code>faker_file.providers.webp_file</code>
module, 94	module, 117
<code>faker_file.providers.csv_file</code>	<code>faker_file.providers.xlsx_file</code>
module, 95	module, 118
<code>faker_file.providers.docx_file</code>	<code>faker_file.providers.zip_file</code>
module, 96	module, 119
<code>faker_file.providers.eml_file</code>	<code>faker_file.storages</code>
module, 98	module, 124
<code>faker_file.providers.epub_file</code>	<code>faker_file.storages.aws_s3</code>
module, 100	module, 120
<code>faker_file.providers.helpers</code>	<code>faker_file.storages.azure_cloud_storage</code>
module, 90	module, 121
<code>faker_file.providers.helpers.inner</code>	<code>faker_file.storages.base</code>
module, 78	module, 121
<code>faker_file.providers.ico_file</code>	<code>faker_file.storages.cloud</code>
module, 101	module, 122
<code>faker_file.providers.jpeg_file</code>	<code>faker_file.storages.filesystem</code>
module, 102	module, 123
<code>faker_file.providers.mixins</code>	<code>faker_file.storages.google_cloud_storage</code>
module, 91	module, 123
<code>faker_file.providers.mixins.image_mixin</code>	<code>faker_file.tests</code>
module, 90	module, 126
<code>faker_file.providers.mixins.tablular_data_mixin</code>	<code>faker_file.tests.test_django_integration</code>
module, 90	module, 124
<code>faker_file.providers.mp3_file</code>	<code>faker_file.tests.test_providers</code>
module, 92	module, 124
<code>faker_file.providers.mp3_file.generators</code>	<code>faker_file.tests.test_storages</code>
module, 92	module, 125
<code>faker_file.providers.mp3_file.generators.edge_tts_generator</code>	<code>faker_file.tests.texts</code>
module, 91	module, 126
<code>faker_file.providers.mp3_file.generators.gtts_generator</code>	<code>FileMixin</code> (class in <code>faker_file.base</code>), 126
module, 92	<code>FileSystemStorage</code> (class in <code>faker_file.storages.filesystem</code>), 123
<code>faker_file.providers.odp_file</code>	<code>formats</code> (<code>faker_file.base.FileMixin</code> attribute), 126
module, 103	<code>formats</code> (<code>faker_file.providers.mixins.image_mixin.ImageMixin</code> attribute), 90
<code>faker_file.providers.ods_file</code>	<code>formats</code> (<code>faker_file.providers.mixins.tablular_data_mixin.TabularDataMixin</code> attribute), 90
module, 104	
<code>faker_file.providers.odt_file</code>	<code>fuzzy_choice_create_inner_file()</code> (in module <code>faker_file.providers.helpers.inner</code>), 88
module, 105	
<code>faker_file.providers.pdf_file</code>	
module, 108	
<code>faker_file.providers.png_file</code>	
module, 109	
<code>faker_file.providers.pptx_file</code>	
module, 110	
<code>faker_file.providers.random_file_from_dir</code>	
module, 111	
<code>faker_file.providers.rtf_file</code>	
module, 112	
<code>faker_file.providers.svg_file</code>	
module, 113	

G

`generate()` (`faker_file.providers.mp3_file.generators.edge_tts_generator.EdgeTtsGenerator` method), 91

`generate()` (`faker_file.providers.mp3_file.generators.gtts_generator.GttsGenerator` method), 92

`generate_filename()` (`faker_file.storages.base.BaseStorage` method), 121

`generate_filename()`
 (*faker_file.storages.cloud.CloudStorage*
 method), 122

`generate_filename()`
 (*faker_file.storages.filesystem.FileSystemStorage*
 method), 123

`generator` (*faker_file.base.FileMixin* attribute), 126

`generator` (*faker_file.providers.mixins.image_mixin.ImageMixin*
 attribute), 90

`generator` (*faker_file.providers.mixins.tablular_data_mixin.TablularDataMixin*
 attribute), 90

`GoogleCloudStorage` (class in *faker_file.storages.google_cloud_storage*),
123

`GttsMp3Generator` (class in *faker_file.providers.mp3_file.generators.gtts_generator*),
92

H

`handle_kwargs()` (*faker_file.providers.mp3_file.generators.edge_tts_generator*
 method), 91

`handle_kwargs()` (*faker_file.providers.mp3_file.generators.gtts_generator*
 method), 92

I

`ico_file()` (*faker_file.providers.ico_file.IcoFileProvider*
 method), 101

`IcoFileProvider` (class in *faker_file.providers.ico_file*), 101

`ImageMixin` (class in *faker_file.providers.mixins.image_mixin*),
90

J

`jpeg_file()` (*faker_file.providers.jpeg_file.JpegFileProvider*
 method), 102

`JpegFileProvider` (class in *faker_file.providers.jpeg_file*), 102

L

`lang` (*faker_file.providers.mp3_file.generators.gtts_generator.GttsMp3Generator*
 attribute), 92

`list_create_inner_file()` (in *faker_file.providers.helpers.inner*), 89

`load_class_from_path()` (in *faker_file.helpers*), 127

M

module

- `faker_file`, 127
- `faker_file.base`, 126
- `faker_file.constants`, 127
- `faker_file.helpers`, 127
- `faker_file.providers`, 120
- `faker_file.providers.augment_file_from_dir.augmenters`,
78
- `faker_file.providers.bin_file`, 94
- `faker_file.providers.csv_file`, 95
- `faker_file.providers.docx_file`, 96
- `faker_file.providers.eml_file`, 98
- `faker_file.providers.epub_file`, 100
- `faker_file.providers.helpers`, 90
- `faker_file.providers.helpers.inner`, 78
- `faker_file.providers.ico_file`, 101
- `faker_file.providers.jpeg_file`, 102
- `faker_file.providers.mixins`, 91
- `faker_file.providers.mixins.image_mixin`,
90
- `faker_file.providers.mixins.tablular_data_mixin`,
90
- `faker_file.providers.mp3_file`, 92
- `faker_file.providers.mp3_file.generators`,
92
- `faker_file.providers.mp3_file.generators.edge_tts_generator`,
91
- `faker_file.providers.mp3_file.generators.gtts_generator`,
92
- `faker_file.providers.odp_file`, 103
- `faker_file.providers.ods_file`, 104
- `faker_file.providers.odt_file`, 105
- `faker_file.providers.pdf_file`, 108
- `faker_file.providers.png_file`, 109
- `faker_file.providers.pptx_file`, 110
- `faker_file.providers.random_file_from_dir`,
111
- `faker_file.providers.rtf_file`, 112
- `faker_file.providers.svg_file`, 113
- `faker_file.providers.tar_file`, 114
- `faker_file.providers.txt_file`, 116
- `faker_file.providers.webp_file`, 117
- `faker_file.providers.xlsx_file`, 118
- `faker_file.providers.zip_file`, 119
- `faker_file.storages`, 124
- `faker_file.storages.aws_s3`, 120
- `faker_file.storages.azure_cloud_storage`,
121
- `faker_file.storages.base`, 121
- `faker_file.storages.cloud`, 122
- `faker_file.storages.filesystem`, 123
- `faker_file.storages.google_cloud_storage`,
123
- `faker_file.tests`, 126
- `faker_file.tests.test_django_integration`,
124
- `faker_file.tests.test_providers`, 124
- `faker_file.tests.test_storages`, 125
- `faker_file.tests.texts`, 126

mp3_file() (*faker_file.providers.mp3_file.Mp3FileProvider* method), 93
 Mp3FileProvider (class in *faker_file.providers.mp3_file*), 92
N
 numerify (*faker_file.base.FileMixin* attribute), 126
 numerify (*faker_file.providers.mixins.image_mixin.ImageMixin* attribute), 90
 numerify (*faker_file.providers.mixins.tablular_data_mixin.TablularDataMixin* attribute), 90
O
 odp_file() (*faker_file.providers.odp_file.OdpFileProvider* method), 103
 OdpFileProvider (class in *faker_file.providers.odp_file*), 103
 ods_file() (*faker_file.providers.ods_file.OdsFileProvider* method), 104
 OdsFileProvider (class in *faker_file.providers.ods_file*), 104
 odt_file() (*faker_file.providers.odt_file.OdtFileProvider* method), 107
 OdtFileProvider (class in *faker_file.providers.odt_file*), 105
P
 PathyFileSystemStorage (class in *faker_file.storages.cloud*), 122
 pdf_file() (*faker_file.providers.pdf_file.PdfFileProvider* method), 108
 PdfFileProvider (class in *faker_file.providers.pdf_file*), 108
 png_file() (*faker_file.providers.png_file.PngFileProvider* method), 110
 PngFileProvider (class in *faker_file.providers.png_file*), 109
 pptx_file() (*faker_file.providers.pptx_file.PptxFileProvider* method), 111
 PptxFileProvider (class in *faker_file.providers.pptx_file*), 110
 ProvidersTestCase (class in *faker_file.tests.test_providers*), 124
R
 random_element (*faker_file.base.FileMixin* attribute), 126
 random_element (*faker_file.providers.mixins.image_mixin.ImageMixin* attribute), 90
 random_element (*faker_file.providers.mixins.tablular_data_mixin.TablularDataMixin* attribute), 90
 random_file_from_dir() (*faker_file.providers.random_file_from_dir.RandomFileFromDirProvider* method), 112
 RandomFileFromDirProvider (class in *faker_file.providers.random_file_from_dir*), 111
 relpath() (*faker_file.storages.base.BaseStorage* method), 121
 relpath() (*faker_file.storages.cloud.CloudStorage* method), 122
 relpath() (*faker_file.storages.filesystem.FileSystemStorage* method), 123
 returns_list() (in module *faker_file.base*), 126
 rtf_file() (*faker_file.providers.rtf_file.RtfFileProvider* method), 113
 RtfFileProvider (class in *faker_file.providers.rtf_file*), 112
S
 schema (*faker_file.storages.aws_s3.AWSS3Storage* attribute), 120
 schema (*faker_file.storages.azure_cloud_storage.AzureCloudStorage* attribute), 121
 schema (*faker_file.storages.cloud.CloudStorage* attribute), 122
 schema (*faker_file.storages.cloud.PathyFileSystemStorage* attribute), 122
 schema (*faker_file.storages.google_cloud_storage.GoogleCloudStorage* attribute), 124
 setUp() (*faker_file.tests.test_providers.ProvidersTestCase* method), 124
 StringList (class in *faker_file.base*), 126
 StringValue (class in *faker_file.base*), 126
 svg_file() (*faker_file.providers.svg_file.SvgFileProvider* method), 114
 SvgFileProvider (class in *faker_file.providers.svg_file*), 113
T
 TabularDataMixin (class in *faker_file.providers.mixins.tablular_data_mixin*), 90
 tar_file() (*faker_file.providers.tar_file.TarFileProvider* method), 115
 TarFileProvider (class in *faker_file.providers.tar_file*), 114
 test_base_storage_exceptions (*faker_file.tests.test_storages.TestStoragesTestCase* attribute), 125
 test_broken_imports (*faker_file.tests.test_providers.ProvidersTestCase* attribute), 124
 test_cloud_storage_exceptions (*faker_file.tests.test_storages.TestStoragesTestCase* attribute), 125

[test_faker\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 124](#)
[test_faker_retry_failures\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 124](#)
[test_file\(*faker_file.tests.test_django_integration.DjangoIntegrationTestCase* attribute\), 124](#)
[test_file_system_storage_abspath\(*faker_file.tests.test_storages.TestStoragesTestCase* method\), 125](#)
[test_load_class_from_non_existing_path\(*faker_file.tests.test_providers.ProvidersTestCase* method\), 124](#)
[test_load_class_from_path_class_not_found\(*faker_file.tests.test_providers.ProvidersTestCase* method\), 124](#)
[test_load_class_from_path_no_class_type\(*faker_file.tests.test_providers.ProvidersTestCase* method\), 124](#)
[test_mp3_file_generate_not_implemented_exception\(*faker_file.tests.test_providers.ProvidersTestCase* method\), 124](#)
[test_pathy_file_system_storage_abspath\(*faker_file.tests.test_storages.TestStoragesTestCase* method\), 125](#)
[test_pdf_file_generate_not_implemented_exception\(*faker_file.tests.test_providers.ProvidersTestCase* method\), 125](#)
[test_raw_standalone_providers\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 125](#)
[test_raw_standalone_providers_allow_failures\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 125](#)
[test_raw_standalone_providers_retry_failures\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 125](#)
[test_standalone_providers\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 125](#)
[test_standalone_providers_allow_failures\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 125](#)
[test_standalone_providers_retry_failures\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 125](#)
[test_standalone_tar_file\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 125](#)
[test_standalone_tar_file_allow_failures\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 125](#)
[test_standalone_zip_file\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 124](#)
[test_standalone_zip_file_allow_failures\(*faker_file.tests.test_providers.ProvidersTestCase* attribute\), 125](#)
[test_storage\(*faker_file.tests.test_storages.TestStoragesTestCase* attribute\), 125](#)
[test_storage_generate_filename_exceptions\(*faker_file.tests.test_storages.TestStoragesTestCase* attribute\), 125](#)
[test_storage_initialization_exceptions\(*faker_file.tests.test_storages.TestStoragesTestCase* attribute\), 125](#)
[TestStoragesTestCase \(class in *faker_file.tests.test_storages*\), 125](#)
[tld\(*faker_file.providers.mp3_file.generators.gtts_generator.GttsMp3Generator* attribute\), 92](#)
[txt_file\(*faker_file.providers.txt_file.TxtFileProvider* method\), 116](#)
[TxtFileProvider \(class in *faker_file.providers.txt_file*\), 116](#)
[voice\(*faker_file.providers.mp3_file.generators.edge_tts_generator.EdgeTtsGenerator* attribute\), 91](#)
[webp_file\(*faker_file.providers.webp_file.WebpFileProvider* method\), 117](#)
[WebpFileProvider \(class in *faker_file.providers.webp_file*\), 117](#)
[wrap_text\(\) \(in module *faker_file.helpers*\), 127](#)
[write_bytes\(*faker_file.storages.base.BaseStorage* method\), 121](#)
[write_bytes\(*faker_file.storages.cloud.CloudStorage* method\), 122](#)
[write_bytes\(*faker_file.storages.filesystem.FileSystemStorage* method\), 123](#)
[write_text\(*faker_file.storages.base.BaseStorage* method\), 121](#)
[write_text\(*faker_file.storages.cloud.CloudStorage* method\), 122](#)
[write_text\(*faker_file.storages.filesystem.FileSystemStorage* method\), 123](#)
[xlsx_file\(*faker_file.providers.xlsx_file.XlsxFileProvider* method\), 118](#)
[XlsxFileProvider \(class in *faker_file.providers.xlsx_file*\), 118](#)
[zip_file\(*faker_file.providers.zip_file.ZipFileProvider* method\), 120](#)

ZipFileProvider (*class in faker_file.providers.zip_file*),
[119](#)