
faker-file Documentation

Release 0.10.12

Artur Barseghyan <artur.barseghyan@gmail.com>

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Generate files with fake data

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*).
- MP3 file support requires *gtts* (*MIT*) or *edge-tts* (*GPLv3*).
- PDF file support requires *pdftkit* (*MIT*).
- 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*), *torch* (*BSD*), *transformers* (*Apache 2*), *numpy* (*BSD*), *pandas* (*BSD*) and *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](#).

INSTALLATION

3.1 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 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]
```

3.2 Or development version from GitHub

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

FEATURES

4.1 Supported file types

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

4.2 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.
- `RandomFileFromDirProvider`: Pick a random file from given directory.

4.3 Supported file storages

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

USAGE EXAMPLES

5.1 With Faker

One way

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

FAKER = Faker()

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

Or another

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

FAKER = Faker()
FAKER.add_provider(TxtFileProvider)

file = FAKER.txt_file()
```

5.2 With factory_boy

5.2.1 upload/models.py

```
from django.db import models

class Upload(models.Model):

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

5.2.2 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.

6.1 Usage example with storages

6.1.1 *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)
```

6.1.2 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)
```

6.1.3 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
ELEVEN

AUTHOR

Artur Barseghyan <artur.barseghyan@gmail.com>

PROJECT DOCUMENTATION

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- *Project documentation*

12.1 Quick start

12.1.1 Installation

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

12.1.2 Usage

12.1.2.1 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)
FAKER.add_provider(EpubFileProvider)
FAKER.add_provider(IcoFileProvider)
```

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```
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()
```

12.1.2.2 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
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)
```

12.1.2.2.1 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

```

12.1.2.2.2 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

```

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```

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)
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:

```

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```
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))
    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))
```

12.1.2.2.3 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
```

12.2 Recipes

12.2.1 When using with Faker

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

12.2.1.1 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)
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.

12.2.1.2 Create a TXT file with static content

- Content of the file is Lorem ipsum.

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

12.2.1.3 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,
)
```

12.2.1.4 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"}}
)
```

12.2.1.5 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",
    }
)
```

12.2.1.6 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,
        },
    }
)
```

12.2.1.7 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,
)

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,
                    }
                }
            }
        },
    }
)
```

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```

    },
}
)

```

12.2.1.8 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),
                (create_inner_txt_file, kwargs),
            ],
        },
        "directory": "zzz",
    }
)

```

12.2.1.9 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"}}
)
```

12.2.1.10 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,
        },
    },
)
```

12.2.1.11 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,
                    }
                }
            }
        },
    },
)
```

12.2.1.12 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,
```

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```
        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),
                ],
            },
        },
    )
```

12.2.1.13 Create a TXT file with static content

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

12.2.1.14 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,
)
```

12.2.1.15 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)

```

12.2.1.16 Create a MP3 file

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

12.2.1.17 Create a MP3 file by explicitly specifying MP3 generator class

12.2.1.17.1 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 (

```

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```
GttsMp3Generator,
)

FAKER = Faker()

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

12.2.1.17.2 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.

12.2.1.18 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.mp3_file.generators.base 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.

12.2.1.19 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",
)
```

12.2.1.20 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.

12.2.1.20.1 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
```

12.2.1.20.2 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
```


12.2.1.21 Generate a lot of files using multiprocessing

12.2.1.21.1 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()
```

12.2.1.21.2 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}},
```

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```
{{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()
```

12.2.1.22 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.

12.2.2 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.

12.2.2.1 Basic example

12.2.2.1.1 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
```

12.2.2.1.2 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
```

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```

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)
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:

```

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```

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

```

12.2.2.2 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),

```

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```

    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
```

12.2.2.3 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

```

12.2.2.4 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

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
```

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```

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",
    )

```

12.3 Security Policy

12.3.1 Reporting a Vulnerability

Do not report security issues on GitHub!

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

12.3.2 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` 0.11.x, support will be provided for `faker-file` 0.10.x.

Upon the release of `faker-file` 0.12.x, security support for `faker-file` 0.10.x will end.

Version	Supported	
0.10.x	Yes	
0.9.x	Yes	

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< 0.9

No

12.4 Release history and notes

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

```
major.minor[.revision]
```

- 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.

12.4.1 0.10.12

2023-01-21

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

12.4.2 0.10.11

2023-01-20

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

12.4.3 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.

12.4.4 0.10.9

2023-01-18

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

12.4.5 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.

12.4.6 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.

12.4.7 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.

12.4.8 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).

12.4.9 0.10.4

2023-01-08

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

12.4.10 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.

12.4.11 0.10.2

2023-01-06

- Add `Mp3FileProvider`.
- Add `create_inner_mp3_file` inner function.

12.4.12 0.10.1

2023-01-05

- Fixes in `ZipFileProvider`.

12.4.13 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.

12.4.14 0.9.3

2023-01-03

- Add EpubFileProvider provider.

12.4.15 0.9.2

2022-12-23

- Add RrfFileProvider.
- Added SQLAlchemy factory example.

12.4.16 0.9.1

2022-12-19

- Fixes in cloud storage.
- Documentation fixes.

12.4.17 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.

12.4.18 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.

12.4.19 0.7

2022-12-12

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

12.4.20 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%.

12.4.21 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",  
    }  
)
```

12.4.22 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.

12.4.23 0.3

2022-12-08

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

12.4.24 0.2

2022-12-07

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

12.4.25 0.1

2022-12-06

- Initial beta release.

12.5 Package

12.5.1 `faker_file` package

12.5.1.1 Subpackages

12.5.1.1.1 `faker_file.providers` package

12.5.1.1.1.1 Subpackages

12.5.1.1.1.2 `faker_file.providers.augment_file_from_dir` package

12.5.1.1.1.3 Subpackages

12.5.1.1.1.4 `faker_file.providers.augment_file_from_dir.augmenters` package

12.5.1.1.1.5 Submodules

12.5.1.1.1.6 `faker_file.providers.augment_file_from_dir.augmenters.base` module

```
class faker_file.providers.augment_file_from_dir.augmenters.base.BaseTextAugmenter(**kwargs)
    Bases: object
    Base text augmenter.

    augment(text: str) → str

    handle_kwargs(**kwargs)
        Handle kwargs.
```


12.5.1.1.1.7 `faker_file.providers.augment_file_from_dir.augmenters.nlpaug_augmenter` module

12.5.1.1.1.8 Module contents

12.5.1.1.1.9 `faker_file.providers.augment_file_from_dir.extractors` package

12.5.1.1.1.10 Submodules

12.5.1.1.1.11 `faker_file.providers.augment_file_from_dir.extractors.base` module

12.5.1.1.1.12 `faker_file.providers.augment_file_from_dir.extractors.tika_extractor` module

12.5.1.1.1.13 Module contents

12.5.1.1.1.14 Module contents

12.5.1.1.1.15 `faker_file.providers.helpers` package

12.5.1.1.1.16 Submodules

12.5.1.1.1.17 `faker_file.providers.helpers.inner` module

```
faker_file.providers.helpers.inner.create_inner_bin_file(storage: Optional[BaseStorage] = None,
                                                         prefix: Optional[str] = None, generator:
                                                         Optional[Union[Faker, Generator,
                                                         Provider]] = None, length: int =
                                                         1048576, content: Optional[str] = None,
                                                         **kwargs) → StringValue
```

Create inner BIN file.

```
faker_file.providers.helpers.inner.create_inner_csv_file(storage: Optional[BaseStorage] = 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,
                                                           prefix: Optional[str] = None, generator:
                                                           Optional[Union[Faker, Generator,
                                                           Provider]] = None, max_nb_chars: int =
                                                           10000, 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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
                                                         Provider]] = None, options:  
                                                         Optional[Dict[str, Any]] = None,  
                                                         max_nb_chars: int = 10000,  
                                                         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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
                                                         Provider]] = None, max_nb_chars: int =  
                                                         10000, 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_ico_file(storage: Optional[BaseStorage] = None,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
                                                         Provider]] = None, max_nb_chars: int =  
                                                         5000, 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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
                                                         Provider]] = None, max_nb_chars: int =  
                                                         5000, 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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
                                                         Provider]] = None, max_nb_chars: int =  
                                                         500, content: Optional[str] = None,  
                                                         mp3_generator_cls:  
                                                         Optional[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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
10000, wrap_chars_after: Optional[int] =  
None, content: Optional[str] = None,  
**kwargs) → StringValue
```

Create inner ODP file.

```
faker_file.providers.helpers.inner.create_inner_ods_file(storage: Optional[BaseStorage] = 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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
10000, 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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
10000, wrap_chars_after: Optional[int] =  
None, content: Optional[str] = None,  
**kwargs) → StringValue
```

Create inner PDF file.

```
faker_file.providers.helpers.inner.create_inner_png_file(storage: Optional[BaseStorage] = None,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
5000, 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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
10000, 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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
10000, 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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
5000, 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,  
                                                         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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
10000, 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,  
                                                         prefix: Optional[str] = None, generator:  
                                                         Optional[Union[Faker, Generator,  
Provider]] = None, max_nb_chars: int =  
5000, 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,  
                                                         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_zip_file(storage: Optional[BaseStorage] = 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) →
                                                                    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",
    }
)
```

12.5.1.1.1.18 Module contents

12.5.1.1.1.19 `faker_file.providers.mixins` package

12.5.1.1.1.20 Submodules

12.5.1.1.1.21 `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
```

12.5.1.1.1.22 `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
```

12.5.1.1.1.23 Module contents

12.5.1.1.1.24 `faker_file.providers.mp3_file` package

12.5.1.1.1.25 Subpackages

12.5.1.1.1.26 `faker_file.providers.mp3_file.generators` package

12.5.1.1.1.27 Submodules

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

```
class faker_file.providers.mp3_file.generators.base.BaseMp3Generator(content: str, generator:
                                                                    Union[Faker, Generator,
                                                                    Provider], **kwargs)
```

Bases: `object`

Base MP3 generator.

content: `str`

generate(***kwargs*) → bytes

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

handle_kwargs(***kwargs*)

Handle kwargs.

12.5.1.1.1.29 `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() → bytes
    Generate MP3.
handle_kwargs(**kwargs) → None
    Handle kwargs.
voice: str = 'en-GB-SoniaNeural'

```

12.5.1.1.1.30 `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() → bytes
    Generate MP3.
handle_kwargs(**kwargs) → None
    Handle kwargs.
lang: str = 'en'
tld: str = 'com'

```

12.5.1.1.1.31 Module contents

12.5.1.1.1.32 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.mp3_file.generators.base 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: ~typing.Optional[~faker_file.storages.base.BaseStorage] = None, prefix:  
    ~typing.Optional[str] = None, max_nb_chars: int = 500, content: ~typing.Optional[str] = None,  
    mp3_generator_cls:  
        ~typing.Type[~faker_file.providers.mp3_file.generators.base.BaseMp3Generator] = <class  
            'faker_file.providers.mp3_file.generators.gtts_generator.GttsMp3Generator'>,  
    mp3_generator_kwargs: ~typing.Optional[~typing.Dict[str, ~typing.Any]] = None, **kwargs) →  
    StringValue
```

Generate a MP3 file with random text.

Parameters

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

Returns

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

12.5.1.1.1.33 Submodules

12.5.1.1.1.34 `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, prefix: Optional[str] = None, length: int = 1048576, content: Optional[bytes] = None, **kwargs*) → *StringValue*

Generate a CSV file with random text.

Parameters

- **storage** – Storage class. Defaults to *FileSystemStorage*.
- **prefix** – File name prefix.
- **length** –
- **content** – File content. If given, used as is.

Returns

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

extension: str = 'bin'

12.5.1.1.1.35 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, prefix: Optional[str] = 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, encoding:
Optional[str] = None, **kwargs) → StringValue
```

Generate a CSV file with random text.

Parameters

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

Returns

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

extension: `str = 'csv'`

12.5.1.1.136 `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,
```

```
)
docx_file(storage: Optional[BaseStorage] = None, prefix: Optional[str] = None, max_nb_chars: int =
    10000, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, **kwargs) →
    StringValue
```

Generate a DOCX file with random text.

Parameters

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

Returns

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

extension: `str = 'docx'`

12.5.1.1.1.37 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, prefix: Optional[str] = None, options: Optional[Dict[str, Any]] = None, max_nb_chars: int = 10000, 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*.
- **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.

Returns

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

extension: `str = 'eml'`

12.5.1.1.138 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, prefix: Optional[str] = None, max_nb_chars: int = 10000, 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*.
- **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.

Returns

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

extension: `str = 'epub'`

12.5.1.1.139 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, prefix: Optional[str] = None, max_nb_chars: int = 5000,
        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*.
- **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.

Returns

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

12.5.1.1.1.40 `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, prefix: Optional[str] = None, max_nb_chars: int = 5000, 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*.
- **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.

Returns

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

12.5.1.1.1.41 `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, 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*.
- **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.
- **prefix** – File name prefix.
- **content** – List of dicts with content (JSON-like format). If given, used as is.

Returns

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

12.5.1.1.1.42 `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,  
)
```

extension: `str = 'odt'`

odt_file(*storage: Optional[BaseStorage] = None, prefix: Optional[str] = None, max_nb_chars: int = 10000, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, **kwargs*) → *StringValue*

Generate an ODT file with random text.

Parameters

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

Returns

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

12.5.1.1.1.43 `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,
)
```

extension: `str = 'pdf'`

```
pdf_file(storage: Optional[BaseStorage] = None, prefix: Optional[str] = None, max_nb_chars: int = 10000, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, encoding: Optional[str] = 'utf-8', **kwargs) → StringValue
```

Generate a PDF file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **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.
- **encoding** – Encoding of the file.

Returns

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

12.5.1.1.1.44 `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, prefix: Optional[str] = None, max_nb_chars: int = 5000, 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*.
- **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.

Returns

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

12.5.1.1.1.45 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, prefix: Optional[str] = None, max_nb_chars: int = 10000, wrap_chars_after: Optional[int] = None, content: Optional[str] = None, **kwargs*) → *StringValue*

Generate a file with random text.

Parameters

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

Returns

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

12.5.1.1.146 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, 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`.
- **prefix** – File name prefix.

Returns

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

12.5.1.1.1.47 `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, prefix: Optional[str] = None, max_nb_chars: int = 10000, 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*.
- **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.

Returns

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

12.5.1.1.1.48 `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, prefix: Optional[str] = None, max_nb_chars: int = 5000, 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*.
- **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.

Returns

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

12.5.1.1.1.49 `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, prefix: Optional[str] = None, max_nb_chars: int = 10000, 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*.
- **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.

Returns

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

12.5.1.1.1.50 `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, prefix: Optional[str] = None, max_nb_chars: int = 5000, 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*.
- **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.

Returns

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

12.5.1.1.151 `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, 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*.
- **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.
- **prefix** – File name prefix.
- **content** – List of dicts with content (JSON-like format). If given, used as is.

Returns

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

12.5.1.1.1.52 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, prefix: Optional[str] = None, options: Optional[Dict[str, Any]] = None, **kwargs*) → *StringValue*

Generate a ZIP file with random text.

Parameters

- **storage** – Storage. Defaults to *FileSystemStorage*.
- **prefix** – File name prefix.
- **options** – Options (non-structured) for complex types, such as ZIP.

Returns

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

12.5.1.1.1.53 Module contents**12.5.1.1.2 faker_file.storages package****12.5.1.1.2.1 Submodules****12.5.1.1.2.2 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'
```

12.5.1.1.2.3 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: str = 'azure'

```

12.5.1.1.2.4 `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(prefix: str, extension: str) → 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.

```

12.5.1.1.2.5 `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.

    authenticate(**kwargs)

```

bucket: Pathy

bucket_name: str

credentials: Dict[str, str]

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

Check if file exists.

generate_filename(prefix: str, extension: str) → Pathy

Generate filename.

relpath(filename: Pathy) → str

Return relative path.

schema: 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'

12.5.1.1.2.6 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(prefix: str, extension: str) → 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.
```

12.5.1.1.2.7 `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: str = 'gs'
```


12.5.1.1.2.8 Module contents

12.5.1.1.3 `faker_file.tests` package

12.5.1.1.3.1 Submodules

12.5.1.1.3.2 `faker_file.tests.test_augment_file_from_dir_provider` module

12.5.1.1.3.3 `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`

12.5.1.1.3.4 `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_mp3_file_generate_not_implemented_exception()`

`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`

12.5.1.1.3.5 `faker_file.tests.test_sqlalchemy_integration` module

12.5.1.1.3.6 `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

12.5.1.1.3.7 `faker_file.tests.texts` module

12.5.1.1.3.8 Module contents

12.5.1.2 Submodules

12.5.1.3 `faker_file.base` module

```
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.StringValue
```

Bases: `str`

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

12.5.1.4 `faker_file.constants` module

12.5.1.5 `faker_file.helpers` module

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

12.5.1.6 Module contents

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