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# **faker-file Documentation**

***Release 0.7***

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**Generate fake files**





## 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*- or *Apache 2* licensed. All licenses are mentioned below between the brackets.

- Core package requires Python 3.7, 3.8, 3.9, 3.10 and 3.11.
- 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*).
- ICO, JPEG, PNG, SVG and WEBP files support requires `imgkit` (*MIT*).
- PDF file support requires `pdftk` (*MIT*).
- PPTX file support requires `python-pptx` (*MIT*).
- ODS file support requires `tablib` (*MIT*) and `odfpy` (*Apache 2*).
- XLSX file support requires `tablib` (*MIT*) and `openpyxl` (*MIT*).



## DOCUMENTATION

Documentation is available on [Read the Docs](#).



## INSTALLATION

Latest stable version on PyPI:

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

Or development version from GitHub:

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



## **SUPPORTED FILE TYPES**

- BIN
- CSV
- DOCX
- ICO
- JPEG
- ODS
- PDF
- PNG
- PPTX
- SVG
- TXT
- WEBP
- XLSX
- ZIP





## USAGE EXAMPLES

### 5.1 With Faker

#### 5.1.1 One way

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

FAKER = Faker()

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

#### 5.1.2 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/factory.py

Note, that when using `faker-file` with Django, you need to pass your `MEDIA_ROOT` setting as `root_path` value (which is by default set to `tempfile.gettempdir()`).

```
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 upload.models import Upload

factory.Faker.add_provider(DocxFileProvider)

class UploadFactory(DjangoModelFactory):

    # ...
    file = Faker("docx_file", root_path=settings.MEDIA_ROOT)

    class Meta:
        model = Upload
```

## TESTING

Simply type:

```
pytest -vvv
```

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  
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sub-sub-header  
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sub-sub-sub-header  
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sub-sub-sub-sub-header  
+++++++  
  
sub-sub-sub-sub-sub-header  
*****
```



**LICENSE**

MIT





## SUPPORT

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

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



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## PROJECT DOCUMENTATION

Contents:

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## 11.1 Quick start

### 11.1.1 Installation

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

### 11.1.2 Usage

#### 11.1.2.1 With Faker

```
from faker import Faker
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.ico_file import IcoFileProvider
from faker_file.providers.jpeg_file import JpegFileProvider
from faker_file.providers.ods_file import OdsFileProvider
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.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

FAKER = Faker()
FAKER.add_provider(BinFileProvider)
FAKER.add_provider(CsvFileProvider)
FAKER.add_provider(DocxFileProvider)
FAKER.add_provider(IcoFileProvider)
FAKER.add_provider(JpegFileProvider)
FAKER.add_provider(OdsFileProvider)
FAKER.add_provider(PdfFileProvider)
FAKER.add_provider(PngFileProvider)
FAKER.add_provider(PptxFileProvider)
FAKER.add_provider(SvgFileProvider)
FAKER.add_provider(TxtFileProvider)
FAKER.add_provider(WebpFileProvider)
FAKER.add_provider(XlsxFileProvider)
FAKER.add_provider(ZipFileProvider)

bin_file = FAKER.bin_file()
csv_file = FAKER.csv_file()
docx_file = FAKER.docx_file()
ico_file = FAKER.ico_file()
jpeg_file = FAKER.jpeg_file()
ods_file = FAKER.ods_file()
pdf_file = FAKER.pdf_file()
png_file = FAKER.png_file()
```

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```
pptx_file = FAKER.pptx_file()
svg_file = FAKER.svg_file()
txt_file = FAKER.txt_file()
webp_file = FAKER.webp_file()
xlsx_file = FAKER.xlsx_file()
zip_file = FAKER.zip_file()
```

### 11.1.2.2 With factory\_boy

#### 11.1.2.2.1 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)

    # Files
    docx_file = models.FileField(null=True)
    pdf_file = models.FileField(null=True)
    pptx_file = models.FileField(null=True)
    txt_file = models.FileField(null=True)
    zip_file = models.FileField(null=True)

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

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

#### 11.1.2.2.2 upload/factories.py

```
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.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

from upload.models import Upload
```

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```
# Add all providers we want to use
Faker.add_provider(DocxFileProvider)
Faker.add_provider(PdfFileProvider)
Faker.add_provider(PptxFileProvider)
Faker.add_provider(TxtFileProvider)
Faker.add_provider(ZipFileProvider)

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

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

    # Files
    docx_file = Faker("docx_file", root_path=settings.MEDIA_ROOT)
    pdf_file = Faker("pdf_file", root_path=settings.MEDIA_ROOT)
    pptx_file = Faker("pptx_file", root_path=settings.MEDIA_ROOT)
    txt_file = Faker("txt_file", root_path=settings.MEDIA_ROOT)
    zip_file = Faker("zip_file", root_path=settings.MEDIA_ROOT)

    class Meta:
        model = Upload
```

## 11.2 Recipes

### 11.2.1 When using with Faker

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

#### 11.2.1.1 Imports and initializations

##### 11.2.1.1.1 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")
```



#### 11.2.1.1.2 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.

#### 11.2.1.2 Create a TXT file with static content

- Content of the file is Lorem ipsum.

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

#### 11.2.1.3 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,
)
```

#### 11.2.1.4 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={"content": "Lorem ipsum"})
```

#### 11.2.1.5 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.zip_file 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",
)
)
```

#### 11.2.1.6 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.zip_file 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": {
```

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```

        "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,
                }
            },
        },
    },
}
)

```

#### 11.2.1.7 Create a TXT file with static content

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

#### 11.2.1.8 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,
)

```

#### 11.2.1.9 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}}

```

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```
Address: {{address}}

Best regards,

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

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

#### 11.2.1.10 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",
)
```

### 11.2.2 When using with Django (and factory\_boy)

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

#### 11.2.2.1 Basic example

##### 11.2.2.1.1 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)

    # Files
```

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```

docx_file = models.FileField(null=True)
pdf_file = models.FileField(null=True)
pptx_file = models.FileField(null=True)
txt_file = models.FileField(null=True)
zip_file = models.FileField(null=True)
file = models.FileField(null=True)

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

def __str__(self):
    return self.name

```

#### 11.2.2.1.2 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.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

from upload.models import Upload

# Add all providers we want to use
Faker.add_provider(DocxFileProvider)
Faker.add_provider(PdfFileProvider)
Faker.add_provider(PptxFileProvider)
Faker.add_provider(TxtFileProvider)
Faker.add_provider(ZipFileProvider)

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

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

    # Files
    docx_file = Faker("docx_file", root_path=settings.MEDIA_ROOT)
    pdf_file = Faker("pdf_file", root_path=settings.MEDIA_ROOT)
    pptx_file = Faker("pptx_file", root_path=settings.MEDIA_ROOT)
    txt_file = Faker("txt_file", root_path=settings.MEDIA_ROOT)
    zip_file = Faker("zip_file", root_path=settings.MEDIA_ROOT)
    file = Faker("txt_file", root_path=settings.MEDIA_ROOT)

```

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```
class Meta:
    model = Upload
```

#### 11.2.2.2 Randomize provider choice

```
from random import choice

from factory import LazyAttribute
from faker import Faker as FakerFaker

FAKER = FakerFaker()

PROVIDER_CHOICES = [
    lambda: DocxFileProvider(FAKER).docx_file(root_path=settings.MEDIA_ROOT),
    lambda: PdfFileProvider(FAKER).pdf_file(root_path=settings.MEDIA_ROOT),
    lambda: PptxFileProvider(FAKER).pptx_file(root_path=settings.MEDIA_ROOT),
    lambda: TxtFileProvider(FAKER).txt_file(root_path=settings.MEDIA_ROOT),
    lambda: ZipFileProvider(FAKER).zip_file(root_path=settings.MEDIA_ROOT),
]

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

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

    # ...
    file = LazyAttribute(pick_random_provider)
    # ...
```

#### 11.2.2.3 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.

##### 11.2.2.3.1 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
```

### 11.2.2.3.2 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
```

## 11.3 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.

### 11.3.1 0.7

2022-12-12

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

### 11.3.2 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%.

### 11.3.3 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",
    }
)
```

### 11.3.4 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.

### 11.3.5 0.3

2022-12-08

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

### 11.3.6 0.2

2022-12-07

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

### 11.3.7 0.1

2022-12-06

- Initial beta release.



## 11.4 Package

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### 11.4.1 faker\_file package

#### 11.4.1.1 Subpackages

##### 11.4.1.1.1 faker\_file.providers package

##### 11.4.1.1.1.1 Submodules

##### 11.4.1.1.1.2 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_file.providers.bin_file import BinFileProvider
file = BinFileProvider(None).bin_file()
```

Usage example with options:

```
from faker_file.providers.bin_file import BinFileProvider
file = BinFileProvider(None).bin_file(
    prefix="zzz", length=1024**2,
)
```

**bin\_file**(*root\_path: Optional[str] = None, rel\_path: str = 'tmp', prefix: Optional[str] = None, length: int = 1048576, content: Optional[bytes] = None, \*\*kwargs*) → *StringValue*

Generate a CSV file with random text.

#### Parameters

- **root\_path** – Path of your files root directory (in case of Django it would be *settings.MEDIA\_ROOT*).
- **rel\_path** – Relative path (from root directory).
- **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'
```

#### 11.4.1.1.1.3 `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_file.providers.csv_file import CsvFileProvider

file = CsvFileProvider(None).csv_file()
```

Usage example with options:

```
from faker_file.providers.csv_file import CsvFileProvider

file = CsvFileProvider(None).csv_file(
    prefix="zzz", num_rows=100, data_columns=('{{name}}', '{{sentence}}', '{{address}}'), include_row_ids=True,
)
```

```
csv_file(root_path: Optional[str] = None, rel_path: str = 'tmp', 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, **kwargs) →
StringValue
```

Generate a CSV file with random text.

##### Parameters

- **root\_path** – Path of your files root directory (in case of Django it would be `settings.MEDIA_ROOT`).
- **rel\_path** – Relative path (from root directory).
- **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** –
- **prefix** – File name prefix.
- **content** – File content. If given, used as is.

##### Returns

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

```
extension: str = 'csv'
```

#### 11.4.1.1.1.4 `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_file.providers.docx_file import DocxFileProvider

file = DocxFileProvider(None).docx_file()
```

Usage example with options:

```
from faker_file.providers.docx_file import DocxFileProvider

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

**docx\_file**(*root\_path: Optional[str] = None, rel\_path: str = 'tmp', 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

- **root\_path** – Path of your files root directory (in case of Django it would be *settings.MEDIA\_ROOT*).
- **rel\_path** – Relative path (from root directory).
- **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'`

#### 11.4.1.1.1.5 `faker_file.providers.ico_file` module

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

Bases: `BaseProvider`, `FileMixin`

ICO file provider.

Usage example:

```
from faker_file.providers.png_file import IcoFileProvider

file = IcoFileProvider(None).ico_file()
```

Usage example with options:

```
from faker_file.providers.ico_file import IcoFileProvider

file = IcoFileProvider(None).ico_file(
    prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
)

extension: str = 'ico'

ico_file(root_path: Optional[str] = None, rel_path: str = 'tmp', 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

- **root\_path** – Path of your files root directory (in case of Django it would be *settings.MEDIA\_ROOT*).
- **rel\_path** – Relative path (from root directory).
- **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.

#### 11.4.1.1.1.6 faker\_file.providers.jpeg\_file module

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

Bases: *BaseProvider*, *FileMixin*

JPEG file provider.

Usage example:

```
from faker_file.providers.jpeg_file import JpegFileProvider

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

Usage example with options:

```
from faker_file.providers.jpeg_file import JpegFileProvider

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

extension: str = 'jpg'

jpeg_file(root_path: Optional[str] = None, rel_path: str = 'tmp', 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**

- **root\_path** – Path of your files root directory (in case of Django it would be *settings.MEDIA\_ROOT*).
- **rel\_path** – Relative path (from root directory).
- **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.

**11.4.1.1.1.7 faker\_file.providers.ods\_file module**

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

Bases: `BaseProvider`, `FileMixin`

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,
)
```

**extension:** `str = 'ods'`

**ods\_file**(*root\_path: Optional[str] = None, rel\_path: str = 'tmp', prefix: Optional[str] = None, data\_columns: Optional[Dict[str, str]] = None, num\_rows: int = 10, content: Optional[str] = None, \*\*kwargs*) → *StringValue*

Generate a ODS file with random text.

**Parameters**

- **root\_path** – Path of your files root directory (in case of Django it would be *settings.MEDIA\_ROOT*).
- **rel\_path** – Relative path (from root directory).
- **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.

**11.4.1.1.1.8 `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,  
)
```

**extension:** `str = 'pdf'`

**pdf\_file**(*root\_path: Optional[str] = None, rel\_path: str = 'tmp', prefix: Optional[str] = None, max\_nb\_chars: int = 10000, wrap\_chars\_after: Optional[int] = None, content: Optional[str] = None, \*\*kwargs*) → *StringValue*

Generate a PDF file with random text.

**Parameters**

- **root\_path** – Path of your files root directory (in case of Django it would be `settings.MEDIA_ROOT`).
- **rel\_path** – Relative path (from root directory).
- **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.

#### 11.4.1.1.1.9 faker\_file.providers.png\_file module

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

Bases: `BaseProvider`, `FileMixin`

PNG file provider.

Usage example:

```
from faker_file.providers.png_file import PngFileProvider
file = PngFileProvider(None).png_file()
```

Usage example with options:

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

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

**png\_file**(*root\_path: Optional[str] = None, rel\_path: str = 'tmp', 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

- **root\_path** – Path of your files root directory (in case of Django it would be `settings.MEDIA_ROOT`).
- **rel\_path** – Relative path (from root directory).
- **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.

#### 11.4.1.1.1.10 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,
)

extension:  str = 'pptx'

pptx_file(root_path: Optional[str] = None, rel_path: str = 'tmp', 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

- **root\_path** – Path of your files root directory (in case of Django it would be *settings.MEDIA\_ROOT*).
- **rel\_path** – Relative path (from root directory).
- **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.

#### 11.4.1.1.11 `faker_file.providers.svg_file` module

```
class faker_file.providers.svg_file.SvgFileProvider(generator: Any)
    Bases: BaseProvider, FileMixin

    SVG file provider.

    Usage example:

    from faker_file.providers.svg_file import SvgFileProvider
    file = SvgFileProvider(None).svg_file()

    Usage example with options:

    from faker_file.providers.svg_file import SvgFileProvider

    file = SvgFileProvider(None).svg_file(
        prefix="zzz", max_nb_chars=100_000, wrap_chars_after=80,
    )

extension:  str = 'svg'

svg_file(root_path: Optional[str] = None, rel_path: str = 'tmp', 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**

- **root\_path** – Path of your files root directory (in case of Django it would be *settings.MEDIA\_ROOT*).
- **rel\_path** – Relative path (from root directory).
- **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.

**11.4.1.1.12 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_file.providers.txt_file import TxtFileProvider
file = TxtFileProvider(None).txt_file()
```

Usage example with options:

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

**extension:** `str = 'txt'`

**txt\_file**(*root\_path: Optional[str] = None, rel\_path: str = 'tmp', 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**

- **root\_path** – Path of your files root directory (in case of Django it would be *settings.MEDIA\_ROOT*).
- **rel\_path** – Relative path (from root directory).
- **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.

#### 11.4.1.1.13 `faker_file.providers.webp_file` module

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

Bases: `BaseProvider`, `FileMixin`

WEBP file provider.

Usage example:

```
from faker_file.providers.webp_file import WebpFileProvider
file = WebpFileProvider(None).webp_file()
```

Usage example with options:

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

**extension:** `str = 'webp'`

**webp\_file**(*root\_path: Optional[str] = None, rel\_path: str = 'tmp', 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

- **root\_path** – Path of your files root directory (in case of Django it would be `settings.MEDIA_ROOT`).
- **rel\_path** – Relative path (from root directory).
- **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.

#### 11.4.1.1.1.14 `faker_file.providers.xlsx_file` module

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

Bases: `BaseProvider`, `FileMixin`

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,
)
```

**extension:** `str = 'xlsx'`

**xlsx\_file**(*root\_path: Optional[str] = None, rel\_path: str = 'tmp', 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

- **root\_path** – Path of your files root directory (in case of Django it would be `settings.MEDIA_ROOT`).
- **rel\_path** – Relative path (from root directory).
- **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.

#### 11.4.1.1.15 `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.zip_file import (
    ZipFileProvider, create_inner_docx_file
)

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:

```
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**(*root\_path: Optional[str] = None, rel\_path: str = 'tmp', prefix: Optional[str] = None, options: Optional[Dict[str, Any]] = None, \*\*kwargs*) → *StringValue*

Generate a ZIP file with random text.

##### Parameters

- **root\_path** – Path of your files root directory (in case of Django it would be *settings.MEDIA\_ROOT*).

- **rel\_path** – Relative path (from root directory).
- **prefix** – File name prefix.
- **options** – Options (non-structured) for complex types, such as zip.

#### Returns

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

```
faker_file.providers.zip_file.create_inner_bin_file(root_path: Optional[str] = None, rel_path: str =
'tmp', prefix: Optional[str] = None, generator:
Optional[Union[Provider, Faker]] = None,
length: int = 1048576, content: Optional[str] =
None, **kwargs) → StringValue
```

Create inner BIN file.

```
faker_file.providers.zip_file.create_inner_csv_file(root_path: Optional[str] = None, rel_path: str =
'tmp', prefix: Optional[str] = None, generator:
Optional[Union[Provider, Faker]] = 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.zip_file.create_inner_docx_file(root_path: Optional[str] = None, rel_path: str =
'tmp', prefix: Optional[str] = None,
generator: Optional[Union[Provider, Faker]]
= 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.zip_file.create_inner_ico_file(root_path: Optional[str] = None, rel_path: str =
'tmp', prefix: Optional[str] = None, generator:
Optional[Union[Provider, Faker]] = 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.zip_file.create_inner_jpeg_file(root_path: Optional[str] = None, rel_path: str =
'tmp', prefix: Optional[str] = None,
generator: Optional[Union[Provider, Faker]]
= 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.zip_file.create_inner_ods_file(root_path: Optional[str] = None, rel_path: str =
'tmp', prefix: Optional[str] = None, generator:
Optional[Union[Provider, Faker]] = 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.zip_file.create_inner_pdf_file(root_path: Optional[str] = None, rel_path: str =  
                                                    'tmp', prefix: Optional[str] = None, generator:  
                                                    Optional[Union[Provider, Faker]] = 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.zip_file.create_inner_png_file(root_path: Optional[str] = None, rel_path: str =  
                                                    'tmp', prefix: Optional[str] = None, generator:  
                                                    Optional[Union[Provider, Faker]] = 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.zip_file.create_inner_pptx_file(root_path: Optional[str] = None, rel_path: str =  
                                                    'tmp', prefix: Optional[str] = None,  
                                                    generator: Optional[Union[Provider, Faker]]  
                                                    = 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.zip_file.create_inner_svg_file(root_path: Optional[str] = None, rel_path: str =  
                                                    'tmp', prefix: Optional[str] = None, generator:  
                                                    Optional[Union[Provider, Faker]] = 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.zip_file.create_inner_txt_file(root_path: Optional[str] = None, rel_path: str =  
                                                    'tmp', prefix: Optional[str] = None, generator:  
                                                    Optional[Union[Provider, Faker]] = None,  
                                                    max_nb_chars: int = 10000, wrap_chars_after:  
                                                    Optional[int] = None, content: Optional[str] =  
                                                    None, **kwargs) → StringValue
```

```
faker_file.providers.zip_file.create_inner_webp_file(root_path: Optional[str] = None, rel_path: str =  
                                                    'tmp', prefix: Optional[str] = None,  
                                                    generator: Optional[Union[Provider, Faker]]  
                                                    = 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.zip_file.create_inner_xlsx_file(root_path: Optional[str] = None, rel_path: str  
                                                    = 'tmp', prefix: Optional[str] = None,  
                                                    generator: Optional[Union[Provider, Faker]]  
                                                    = 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.zip_file.create_inner_zip_file(root_path: Optional[str] = None, rel_path: str =  
                                                    'tmp', prefix: Optional[str] = None, generator:  
                                                    Optional[Union[Provider, Faker]] = None,  
                                                    options: Optional[Dict[str, Any]] = None,  
                                                    **kwargs) → StringValue
```

Create inner ZIP file.

#### 11.4.1.1.16 Module contents

#### 11.4.1.1.2 faker\_file.tests package

##### 11.4.1.1.2.1 Submodules

##### 11.4.1.1.2.2 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
```

##### 11.4.1.1.2.3 faker\_file.tests.test\_providers module

```
class faker_file.tests.test_providers.ProvidersTestCase(methodName='runTest')  
    Bases: TestCase  
    Providers test case.  
    FAKER: Faker  
    test_broken_imports  
    test_faker  
    test_generate_filename_failure() → None  
        Test generate filename failure.  
    test_standalone_providers  
    test_standalone_providers_allow_failures
```

```
test_standalone_zip_file
test_standalone_zip_file_allow_failures
```

#### 11.4.1.1.2.4 Module contents

#### 11.4.1.2 Submodules

#### 11.4.1.3 `faker_file.base` module

```
class faker_file.base.FileMixin
    Bases: object
    File mixin.
    extension: str
    formats: List[str]
    generator: Union[Provider, Faker]
    numerify: Callable
    random_element: Callable

class faker_file.base.StringValue
    Bases: str
    data: Dict[str, Any] = {}
```

#### 11.4.1.4 `faker_file.constants` module

#### 11.4.1.5 `faker_file.helpers` module

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

#### 11.4.1.6 Module contents



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