PyUploadcare Documentation

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Uploadcare Ltd

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The most important thing for us at Uploadcare is to make file uploading on the web really easy. Everyone is used to the routine work, related to allowing users upload their userpics or attach resumes: from installing image processing libraries to creating folder with right permissions to ensuring the server never goes down or out of space to enabling CDN. Feature like ability to simply use a picture from Facebook or manual cropping are much more burdensome, hence rare. Uploadcare's goal is to change the status quo.

This library consists of an API interface for Uploadcare and a couple of Django goodies.

A simple Uploadcare `FileField` can be added to an existing Django project in just a couple of *simple steps*. As a result, your users are going to be able to see the progress of the upload, choose files from Google Drive or Instagram, and edit form while files are uploading asynchornously.

Contents:

CHAPTER 1

Installation

This part of the documentation covers the installation of PyUploadcare.

1.1 Pip

Installing pyuploadcare is simple with pip:

```
$ pip install pyuploadcare
```

or, if you're into vintage:

```
$ easy_install pyuploadcare
```

1.2 Get the Code

PyUploadcare is developed on GitHub. You can clone the public repository:

```
$ git clone git://github.com/uploadcare/pyuploadcare.git
```

After that you can install it:

```
$ python setup.py install
```

CHAPTER 2

Quickstart

This page gives a good introduction in how to get started with PyUploadcare. This assumes you have already installed PyUploadcare. If you do not, head over to the *Installation* section.

Warning: Keep in mind that Uploadcare signature authentication will fail if computer clock is not synchronized.

2.1 Get API Keys

First of all, you'll need API keys: public and private. You can get them at the Uploadcare website. If you don't have an account yet, you can use demo keys, as in example. However, the files on demo account are regularly deleted, so create an account as soon as Uploadcare catches your fancy.

2.2 How to use it with Django?

Assume you have a Django project with *gallery* app.

2.2.1 Application Setup

Add `pyuploadcare.dj` into `INSTALLED_APPS`:

```
INSTALLED_APPS = (
    # ...
    'pyuploadcare.dj',

    'gallery',
)
```

As soon as you *got your API keys*, add them to your Django settings file:

```
UPLOADCARE = {
    'pub_key': 'demopublickey',
    'secret': 'demoprivatekey',
}
```

Uploadcare image field adding to your `gallery/models.py` is really simple. Like that:

```
from django.db import models

from pyuploadcare.dj import ImageField


class Photo(models.Model):

    title = models.CharField(max_length=255)
    photo = ImageField()
```

`ImageField` doesn't require any arguments, file paths or whatever. **It just works.** That's the point of it all. It looks nice in the admin interface as well:

Obviously, you would want to use Uploadcare field outside an admin. It's going to work just as well, but, however, you have to remember to add `{{ form.media }}` in the `<head>` tag of your page:

```
{{ form.media }}

<form action="" method="post">
    {% csrf_token %}
    {{ form.as_p }}
    <input type="submit" value="Save"/>
</form>
```

This is a default Django form property which is going to render any scripts needed for the form to work, in our case – Uploadcare scripts.

2.2.2 Using it in templates

You can construct url with all effects manually:

```
{% for photo in photos %}
    {{ photo.title }}
    {{ photo.photo.cdn_url }}-/resize/400x300/-/effect/flip/-/effect/grayscale/
{% endfor %}
```

Refer to CDN docs for more information.

2.3 How to use it in command line?

```
$ ucare -h
```

CHAPTER 3

Django Widget

3.1 Settings

Besides required `pub_key`, `secret` settings there are optional settings, for example, `widget_version` or `widget_variant`:

```
UPLOADCARE = {
    'pub_key': 'demopublickey',
    'secret': 'demoprivatekey',
    'widget_version': '2.3.1',
    'widget_variant': 'min',  // without jQuery
}
```

PyUploadcare takes assets from Uploadcare CDN by default, e.g.:

```
<script src="https://ucarecdn.com/widget/x.y.z/uploadcare/uploadcare.full.min.js"></script>
```

If you don't want to use hosted assets you have to turn off this feature:

```
UPLOADCARE = {
    # ...
    'use_hosted_assets': False,
}
```

In this case local assets will be used.

If you want to provide custom url for assets then you have to specify widget url:

```
UPLOADCARE = {
    # ...
    'use_hosted_assets': False,
    'widget_url': 'http://path.to/your/widget.js',
}
```

Uploadcare widget will use default upload handler url, unless you specify:

```
UPLOADCARE = {
    # ...
    'upload_base_url' = 'http://path.to/your/upload/handler',
}
```

3.2 Model Fields

As you will see, with Uploadcare, adding and working with a file field is just as simple as with a TextField. To attach Uploadcare files to a model, you can use a *FileField* or *ImageField*. These fields play by common Django rules. South migrations are supported.

Note: When you call `your_model_form.is_valid()` or call `photo.full_clean()` directly it invokes `File.store()` method automatically. In other cases you should store objects manually, e.g:

```
photo.photo_2x3 = File('a771f854-c2cb-408a-8c36-71af77811f3b')
photo.save()

photo.photo_2x3.store()
```

3.2.1 FileField

`FileField` does not require an uploaded file to be any certain format.

```
from django.db import models

from pyuploadcare.dj import FileField


class Candidate(models.Model):

    resume = FileField()
```

3.2.2 ImageField

`ImageField` requires an uploaded file to be an image. An optional parameter `manual_crop` enables, if specified, a manual cropping tool: your user can select a part of an image she wants to use. If its value is an empty string, the user can select any part of an image; you can also use values like `"3:4"` or `"200x300"` to get exact proportions or dimensions of resulting image. Consult widget documentation regarding setting up the manual crop:

```
from django.db import models

from pyuploadcare.dj import ImageField


class Candidate(models.Model):

    photo = ImageField(blank=True, manual_crop="")
```

3.2.3 FileGroupField

`FileGroupField` allows you to upload more than one file at a time. It stores uploaded files as a group:

```
from django.db import models

from pyuploadcare.dj import FileGroupField
```

```
class Book(models.Model):

    pages = FileGroupField()
```

3.2.4 ImageGroupField

`ImageGroupField` allows you to upload more than one **image** at a time. It stores uploaded images as a group:

```
from django.db import models

from pyuploadcare.dj import ImageGroupField


class Gallery(models.Model):

    photos = ImageGroupField()
```

CHAPTER 4

Command Line Tool

In order to show help message:

```
$ ucare -h
```

CHAPTER 5

Deprecated Bits

This part of the documentation contains things that eventually will be deleted.

`PYUPLOADCARE_USE_HOSTED_ASSETS` django setting. Use `UPLOADCARE['use_hosted_assets']` instead.

`PYUPLOADCARE_WIDGET_URL` django setting. Use `UPLOADCARE['widget_url']` instead.

`PYUPLOADCARE_UPLOAD_BASE_URL` django setting. Use `UPLOADCARE['upload_base_url']` instead.

CHAPTER 6

API Reference

6.1 Core API

You can use pyuploadcare in any Python project. At first you need assign your project keys to conf object. After that you will be able to do direct api calls or use api resources:

```
>>> import pyuploadcare
>>> pyuploadcare.conf.pub_key = '<your public key>'
>>> pyuploadcare.conf.secret = '<your private key>'
>>> f = pyuploadcare.File('6c5e9526-b0fe-4739-8975-72e8d5ee6342')
>>> f.cdn_url
http://www.ucarecdn.com/6c5e9526-b0fe-4739-8975-72e8d5ee6342/
```

6.1.1 File API Resource

class pyuploadcare.api_resources.**File**(*cdn_url_or_file_id*)

File resource for working with user-uploaded files.

It can take file UUID or group CDN url:

```
>>> file_ = File('a771f854-c2cb-408a-8c36-71af77811f3b')
>>> file_.cdn_url
http://www.ucarecdn.com/a771f854-c2cb-408a-8c36-71af77811f3b/
>>> print File('https://ucarecdn.com/a771f854-c2cb-408a-8c36-71af77811f3b/-/effect/flip/')
http://www.ucarecdn.com/a771f854-c2cb-408a-8c36-71af77811f3b/-/effect/flip/
```

uuid

File UUID [1], e.g. a771f854-c2cb-408a-8c36-71af77811f3b.

default_effects

String of default effects that is used by File.cdn_url, e.g. effect/flip/-/effect/mirror/.

class FileFromUrl(*token*)

Contains the logic around an upload from url.

It expects uploading token, for instance:

```
>>> ffu = FileFromUrl(token='a6a2db73-2aaf-4124-b2e7-039aec022e18')
>>> ffu.info()
{
    "status": "progress",
```

[1] Universally unique identifier according to RFC 4122.

```
        "done": 226038,
        "total": 452076
    }
    >>> ffu.update_info()
    {
        "status": "success",
        "file_id": "63f652fd-3f40-4b54-996c-f17dc7db5bf1",
        "is_stored": false,
        "done": 452076,
        "uuid": "63f652fd-3f40-4b54-996c-f17dc7db5bf1",
        "original_filename": "olympia.jpg",
        "is_image": true,
        "total": 452076,
        "size": 452076
    }
    >>> ffu.get_file()
    <uploadcare.File 63f652fd-3f40-4b54-996c-f17dc7db5bf1>
```

But it could be failed:

```
    >>> ffu.update_info()
    {
        "status": "error",
        "error": "some error message"
    }
```

get_file()
Returns `File` instance if upload is completed.

info()
Returns actual information about uploading as `dict`.

First time it makes API request to get information and keeps it for further using.

update_info()
Updates and returns information by requesting Uploadcare API.

wait(*timeout=30*, *interval=0.3*, *until_ready=False*)

`File.`**cdn_path**(*effects=None*)

`File.`**cdn_url**
Returns file's CDN url.

Usage example:

```
    >>> file_ = File('a771f854-c2cb-408a-8c36-71af77811f3b')
    >>> file_.cdn_url
    http://www.ucarecdn.com/a771f854-c2cb-408a-8c36-71af77811f3b/
```

You can set default effects:

```
    >>> file_.default_effects = 'effect/flip/-/effect/mirror/'
    >>> file_.cdn_url
    http://www.ucarecdn.com/a771f854-c2cb-408a-8c36-71af77811f3b/-/effect/flip/-/effect/mirror/
```

classmethod `File.`**construct_from**(*file_info*)
Constructs `File` instance from file information.

For example you have result of `/files/1921953c-5d94-4e47-ba36-c2e1dd165e1a/` API request:

```
>>> file_info = {
        # ...
        'uuid': '1921953c-5d94-4e47-ba36-c2e1dd165e1a',
        # ...
    }
>>> File.construct_from(file_info)
<uploadcare.File 1921953c-5d94-4e47-ba36-c2e1dd165e1a>
```

File.**copy**(*effects=None*, *target=None*)
Creates File copy

If `target` is `None`, copy file to Uploadcare storage otherwise copy to target associated with project. Add `effects` to `self.default_effects` if any.

File.**datetime_removed**()
Returns file's remove aware *datetime* in UTC format.

It might do API request once because it depends on `info()`.

File.**datetime_stored**()
Returns file's store aware *datetime* in UTC format.

It might do API request once because it depends on `info()`.

File.**datetime_uploaded**()
Returns file's upload aware *datetime* in UTC format.

It might do API request once because it depends on `info()`.

File.**delete**()
Deletes file by requesting Uploadcare API.

File.**filename**()
Returns original file name, e.g. `"olympia.jpg"`.

It might do API request once because it depends on `info()`.

File.**info**()
Returns all available file information as `dict`.

First time it makes API request to get file information and keeps it for further using.

File.**is_image**()
Returns `True` if the file is an image.

It might do API request once because it depends on `info()`.

File.**is_ready**()
Returns `True` if the file is fully uploaded on S3.

It might do API request once because it depends on `info()`.

File.**is_removed**()
Returns `True` if file is removed.

It might do API request once because it depends on `info()`.

File.**is_stored**()
Returns `True` if file is stored.

It might do API request once because it depends on `info()`.

File.**mime_type**()
Returns the file MIME type, e.g. `"image/png"`.

It might do API request once because it depends on `info()`.

`File.`**`size`**`()`
Returns the file size in bytes.

It might do API request once because it depends on `info()`.

`File.`**`store`**`()`
Stores file by requesting Uploadcare API.

Uploaded files do not immediately appear on Uploadcare CDN. Let's consider steps until file appears on CDN:

- first file is uploaded into https://upload.uploadcare.com/;
- after that file is available by API and its `is_public`, `is_ready` are `False`. Now you can store it;
- `is_ready` will be `True` when file will be fully uploaded on S3.

`File.`**`update_info`**`()`
Updates and returns file information by requesting Uploadcare API.

classmethod `File.`**`upload`**`(`*file_obj*`)`
Uploads a file and returns `File` instance.

classmethod `File.`**`upload_from_url`**`(`*url*`)`
Uploads file from given url and returns `FileFromUrl` instance.

classmethod `File.`**`upload_from_url_sync`**`(`*url*, *timeout=30*, *interval=0.3*, *until_ready=False*`)`
Uploads file from given url and returns `File` instance.

6.1.2 File List API Resource

class `pyuploadcare.api_resources.`**`FileList`**`(`*offset=0*, *count=None*, *stored=None*, *removed=None*`)`
List of File resources.

This class provides iteration over all uploaded files. You can specify:

- `offset` – an offset into the list of returned items;
- `count` – a limit on the number of objects to be returned;
- `stored` – `True` to include only removed files, `False` to exclude;
- `removed` – `True` to include only stored files, `False` to exclude.

Usage example:

```
>>> files_from_second_to_end = FileList(offset=1)
>>> for file_ in files_from_second_to_end:
>>>     print file_
```

`offset`

`stored`

`removed`

class **`FileListIterator`**`(`*offset*, *count=None*, *stored=None*, *removed=None*`)`
Iterator that yields `File` instances while API pages are found.

It caches API result for particular page between yields.

`next``()`

classmethod `FileList.`**`retrieve`**(*page*, *limit=20*, *stored=None*, *removed=None*)
Returns list of files' raw information by requesting Uploadcare API.

6.1.3 File Group API Resource

class `pyuploadcare.api_resources.`**`FileGroup`**(*cdn_url_or_group_id*)
File Group resource for working with user-uploaded group of files.

It can take group id or group CDN url:

```
>>> file_group = FileGroup('0513dda0-582f-447d-846f-096e5df9e2bb~2')
```

You can iterate `file_group` or get `File` instance by key:

```
>>> [file_ for file_ in file_group]
[<uploadcare.File 6c5e9526-b0fe-4739-8975-72e8d5ee6342>, None]
>>> file_group[0]
<uploadcare.File 6c5e9526-b0fe-4739-8975-72e8d5ee6342>
>>> len(file_group)
2
```

But slicing is not supported because `FileGroup` is immutable:

```
>>> file_group[:]
TypeError: slicing is not supported
```

If file was deleted then you will get `None`:

```
>>> file_group[1]
None
```

`id`
Group id, e.g. `0513dda0-582f-447d-846f-096e5df9e2bb~2`.

`cdn_url`
Returns group's CDN url.

Usage example:

```
>>> file_group = FileGroup('0513dda0-582f-447d-846f-096e5df9e2bb~2')
>>> file_group.cdn_url
http://www.ucarecdn.com/0513dda0-582f-447d-846f-096e5df9e2bb~2/
```

classmethod `construct_from`(*group_info*)
Constructs `FileGroup` instance from group information.

classmethod `create`(*files*)
Creates file group and returns `FileGroup` instance.

It expects iterable object that contains `File` instances, e.g.:

```
>>> file_1 = File('6c5e9526-b0fe-4739-8975-72e8d5ee6342')
>>> file_2 = File('a771f854-c2cb-408a-8c36-71af77811f3b')
>>> FileGroup.create((file_1, file_2))
<uploadcare.FileGroup 0513dda0-6666-447d-846f-096e5df9e2bb~2>
```

`datetime_created`()
Returns file group's create aware *datetime* in UTC format.

`datetime_stored`()
Returns file group's store aware *datetime* in UTC format.

file_cdn_urls
Returns CDN urls of all files from group without API requesting.

Usage example:

```
>>> file_group = FileGroup('0513dda0-582f-447d-846f-096e5df9e2bb~2')
>>> file_group.file_cdn_urls[0]
'http://www.ucarecdn.com/0513dda0-582f-447d-846f-096e5df9e2bb~2/nth/0/'
```

info()
Returns all available group information as `dict`.

First time it makes API request to get group information and keeps it for further using.

is_stored()
Returns `True` if file is stored.

It might do API request once because it depends on `info()`.

store()
Stores all group's files by requesting Uploadcare API.

Uploaded files do not immediately appear on Uploadcare CDN.

update_info()
Updates and returns group information by requesting Uploadcare API.

6.1.4 API Clients

Uploadcare REST client.

It is JSON REST request abstraction layer that is used by the `pyuploadcare.api_resources`.

`pyuploadcare.api.`**rest_request**(*verb*, *path*, *data=None*, *timeout=<object object>*, *retry_throttled=<object object>*)
Makes REST API request and returns response as `dict`.

It provides auth headers as well and takes settings from `conf` module.

Make sure that given `path` does not contain leading slash.

Usage example:

```
>>> rest_request('GET', 'files/?limit=10')
{
    'next': 'https://api.uploadcare.com/files/?limit=10&page=2',
    'total': 1241,
    'page': 1,
    'pages': 125,
    'per_page': 10,
    'previous': None,
    'results': [
        # ...
        {
            # ...
            'uuid': 1921953c-5d94-4e47-ba36-c2e1dd165e1a,
            # ...
        },
        # ...
    ]
}
```

pyuploadcare.api.**uploading_request**(*verb*, *path*, *data=None*, *files=None*, *timeout=<object object>*)

Makes Uploading API request and returns response as `dict`.

It takes settings from `conf` module.

Make sure that given `path` does not contain leading slash.

Usage example:

```
>>> file_obj = open('photo.jpg', 'rb')
>>> uploading_request('POST', 'base/', files={'file': file_obj})
{
    'file': '9b9f4483-77b8-40ae-a198-272ba6280004'
}
>>> File('9b9f4483-77b8-40ae-a198-272ba6280004')
```

6.1.5 Exceptions

exception pyuploadcare.exceptions.**APIConnectionError**(*data=u''*, **args*, ***kwargs*)
Network communication with Uploadcare errors.

exception pyuploadcare.exceptions.**APIError**(*data=u''*, **args*, ***kwargs*)
API errors, e.g. bad json.

exception pyuploadcare.exceptions.**AuthenticationError**(*data=u''*, **args*, ***kwargs*)
Authentication with Uploadcare's API errors.

exception pyuploadcare.exceptions.**InvalidRequestError**(*data=u''*, **args*, ***kwargs*)
Invalid parameters errors, e.g. status 404.

exception pyuploadcare.exceptions.**ThrottledRequestError**(*response*)
Raised when request was throttled.

exception pyuploadcare.exceptions.**TimeoutError**(*data=u''*, **args*, ***kwargs*)
Timed out errors.

It raises when user wants to wait the result of api requests, e.g.:

```
$ ucare store --wait 6c5e9526-b0fe-4739-8975-72e8d5ee6342
```

exception pyuploadcare.exceptions.**UploadError**(*data=u''*, **args*, ***kwargs*)
Upload errors.

It raises when user wants to wait the result of:

```
$ ucare upload_from_url --wait http://path.to/file.jpg
```

exception pyuploadcare.exceptions.**UploadcareException**(*data=u''*, **args*, ***kwargs*)
Base exception class of library.

6.2 Django Widget API

6.2.1 Model Fields

6.2.2 Form Fields

6.3 Command Line Tool API

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pyuploadcare.ucare_cli.**create_group**(*arg_namespace*)

pyuploadcare.ucare_cli.**delete_file**(*arg_namespace*)

pyuploadcare.ucare_cli.**get_file**(*arg_namespace*)

pyuploadcare.ucare_cli.**list_files**(*arg_namespace=None*)

pyuploadcare.ucare_cli.**load_config_from_args**(*arg_namespace*)

pyuploadcare.ucare_cli.**load_config_from_file**(*filename*)

pyuploadcare.ucare_cli.**main**(*arg_namespace=None*, *config_file_names=(u'~/.uploadcare'*, *u'uploadcare.ini')*)

pyuploadcare.ucare_cli.**store_file**(*arg_namespace*)

pyuploadcare.ucare_cli.**ucare_argparser**()

pyuploadcare.ucare_cli.**upload**(*arg_namespace*)

pyuploadcare.ucare_cli.**upload_from_url**(*arg_namespace*)

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