
fptokens Documentation

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Contents

1	Installation	3
2	Getting Started	5
3	API Documentation	7
4	Indices and tables	9

Contents:

CHAPTER 1

Installation

To install `fptokens`, type:

```
$ pip install fptokens
```


CHAPTER 2

Getting Started

To get started with fptokens, type:

```
import fptokens as fpt
```

To create a file name, type:

```
filename = fpt.Filename(root='/Users/demo/Desktop',  
                        folders=['assets', '$colors$'],  
                        base=['asset', '$colors$', '1200px'])
```

This created a file name with default settings, _ as the separator, jpg as the extension and \$ as the escape character for the tokens.

To parse and convert the tokens of the file name to actual tokens, type:

```
filename.parse()
```

To get the results of the parsing, type:

```
print filename.tokens  
# [<Token: $color$>]
```

The list of tokens could now be used to create permutations of the tokenised file name for example for batch output of image assets.

To create a generator of all permutations, define a set of data for each of the tokens with the token name as the argument name:

```
for permutation in filename.resolve(colors=['white', 'black', 'red', 'blue']):  
    # do something with the permutation  
    print permutation.abspath  
# /Users/demo/Desktop/assets/white/asset_white_1200px.jpg  
# /Users/demo/Desktop/assets/black/asset_black_1200px.jpg  
# /Users/demo/Desktop/assets/red/asset_red_1200px.jpg  
# /Users/demo/Desktop/assets/blue/asset_blue_1200px.jpg
```

Once tokens have been replaced with real-world data to create permutations, the relevant folders can be created by typing:

```
permutation.make()
```

class `fptokens.Token` (*name*, *escape*='\$')

Token object for use in *Filename*.

Parameters

- **name** (*str*) – Token name
- **escape** (*str*) – Escape character, default: \$

name

Return the token name.

Returns Token name

Return type *str*

token

Return the full token including the escape characters either side.

Returns Token

Return type *str*

class `fptokens.TokenError` (*message*)

Exception indicating an error related to Tokens, inherits from `ValueError`.

class `fptokens.Filename` (*root*, *folders*=[], *base*=[], *separator*='_', *extension*='jpg', *escape*='\$')

Filenames with support for tokens.

Parameters

- **root** (*str*) – Root location
- **folders** (*list of str*) – Folder names, attribute supports tokens
- **base** (*list of str*) – Basename of the file, attribute supports tokens
- **separator** (*str*) – Separator for basename elements
- **extension** (*str*) – Filename extension

- **escape** (*str*) – Escape character for tokens, default: \$

abspath

Return the filename's full absolute path.

Returns Absolute path

Return type `Path`

basename

Return the filename's basename.

Returns Basename

Return type `str`

dirname

Return the filename's location.

Returns Dirname

Return type `str`

make()

Create the filename's location if it does not exist.

parse()

Parse the filename's `folders` and `base` attributes, detect components that match the token pattern and replace these with `Token` objects.

resolve (kwargs)**

Given a set of `**kwargs`, yield all possible permutations for the data set provided. Raise `TokenError` if `Filename` does not have tokens or the data provided does not match the tokens.

Params `**kwargs` Permutation data

root

Return the filename's root location.

Returns Root location

Return type `Path`

tokens

Return a list of all tokens in `folders` and `base`.

Returns List of tokens

Return type `list`

CHAPTER 4

Indices and tables

- `genindex`
- `modindex`
- `search`

A

abspath (fptokens.Filename attribute), 8

B

basename (fptokens.Filename attribute), 8

D

dirname (fptokens.Filename attribute), 8

F

Filename (class in fptokens), 7

M

make() (fptokens.Filename method), 8

N

name (fptokens.Token attribute), 7

P

parse() (fptokens.Filename method), 8

R

resolve() (fptokens.Filename method), 8

root (fptokens.Filename attribute), 8

T

Token (class in fptokens), 7

token (fptokens.Token attribute), 7

TokenError (class in fptokens), 7

tokens (fptokens.Filename attribute), 8