



# **picaxe Documentation**

*Release 0.4.1*

**Dave Young**

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*A python package and command-line tools for work with the Flickr API to upload images, sort images, generate MD image reference links etc.*

Here's a summary of what's included in the python package:

### Classes

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*`picaxe.picaxe` work with the Flickr API to upload images, sort images, generate MD image reference links etc*

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### Functions

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## Installation

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The easiest way to install picaxe is to use `pip`:

```
pip install picaxe
```

Or you can clone the [github repo](#) and install from a local version of the code:

```
git clone git@github.com:thespacedoctor/picaxe.git
cd picaxe
python setup.py install
```

To upgrade to the latest version of picaxe use the command:

```
pip install picaxe --upgrade
```

## Development

If you want to tinker with the code, then install in development mode. This means you can modify the code from your cloned repo:

```
git clone git@github.com:thespacedoctor/picaxe.git
cd picaxe
python setup.py develop
```

[Pull requests](#) are welcomed!

## Sublime Snippets

If you use [Sublime Text](#) as your code editor, and you're planning to develop your own python code with picaxe, you might find [my Sublime Snippets](#) useful.

## Issues

Please report any issues [here](#).





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## Command-Line Usage

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Documentation [for picaxe](http://picaxe.readthedocs.org/en/stable) can be found here: <http://picaxe.readthedocs.org/en/stable>

### Usage:

```
picaxe init
picaxe auth [-s <pathToSettingsFile>]
picaxe md <urlOrPhotoid> [<width>] [-s <pathToSettingsFile>]
picaxe albums [-s <pathToSettingsFile>]
picaxe [-giop] upload <imagePath> [--title=<title> --tags=<tags> --desc=<desc> --album=<album>]
picaxe [-op] grab [--title=<title> --tags=<tags> --desc=<desc> --album=<album> --delay=<sec>]
```

### Options:

init	setup the polygot settings file <a href="#">for</a> the first time
auth	authenticate picaxe against your flickr account
md	generate the MD reference link <a href="#">for</a> the image in the given flickr URL
albums	list all the albums in the flickr account
upload	upload a <a href="#">local</a> image to flickr
<pathToSettingsFile>	path to the picaxe settings file
<urlOrPhotoid>	the flickr URL or photoid
<width>	pixel width resolution of the linked image. Default <code>*original*</code> . [75 100 150]
<imagePath>	path to the <a href="#">local</a> image to upload to flickr
--title=<title> --tags=<tags> --desc=<desc> --delay=<sec>	the image title quoted, comma-sepatated tags image description the delay <a href="#">time</a> before screen-grab selection tool appears
-p, --public	make the image public ( <a href="#">private</a> by default)
-o, --open	open the image in the flickr web-app once uploaded
-i, --image	<a href="#">"photo"</a> is an image
-g, --screenGrab	<a href="#">"photo"</a> is a screengrab
-h, --help	show this <a href="#">help</a> message
-v, --version	show version
-s, --settings	the settings file



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## Documentation

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Documentation for picaxe is hosted by [Read the Docs](#) (last stable version and latest version).



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## Command-Line Tutorial

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Before you begin using picaxe you'll need to populate some custom settings within the picaxe settings file.

To setup the default settings file at `~/.config/picaxe/picaxe.yaml` run the command:

```
picaxe init
```

This should create and open the settings file; follow the instructions in the file to populate the missing settings values (usually given an XXX place-holder).

### Authenticating Picaxe Against Your Flickr Account

In order to use picaxe for the first time you'll need to first authenticate it against your Flickr account. This is to give picaxe permission to read your private photo metadata to generate markdown image links etc and also the ability to upload images and screengrabs to your various albums.

The `picaxe init` command should initiate the authentication process if you're running picaxe for the first time, but if you need to run the authentication process again for any reason use:

```
picaxe auth
```

You should see something like this, and then your default browser *should* open at the URL presented (if not just copy and paste the URL into your browser):

```
Now to authorize picaxe against your personal flickr account
Navigate to https://www.flickr.com/services/oauth/authorize?perms=write&oauth_token=7215767817824031
What is the oauth_verifier value in URL you where redirected to?
>
```

You'll be presented with an authentication request like the one below. Click 'OK, I'LL AUTHOURIZE IT'.

You'll then be redirected to *thespacedoctor* website and in the URL you'll notice there are `oauth_token` and `oauth_verifier` parameters.

Copy the `oauth_verifier` value, paste it into the terminal and hit return. That's it. Simples. Your credentials are now written into the picaxe settings file which can be found at `~/.config/picaxe/picaxe.yaml`.

### Listing Albums in Flickr Account

To list all of the albums in your Flickr account run the command:

```
picaxe albums
```

This prints the titles of all the albums you have created in your Flickr account to stdout:

```
Auto Upload
home movies
projects: thespacedoctor
notes: images and screengrabs
blog: workflow tags
family photos
```

## Generating a Multi-Markdown Image Link from Any Flickr Image

To generate a MMD image link for any image in your Flickr account (private or public), or any other public Flickr image, run the command:

```
picaxe md <urlOrPhotoid>
```

Take [this image](#) for example. To generate the MMD image link run:

```
picaxe md https://www.flickr.com/photos/92344016@N06/30588492355/in/album-72157675576126786/
```

or just quote the photo-id (30588492355 in this case):

```
picaxe md 30588492355
```

Here's the MMD link dumped to stdout:

```
![[Photoelectric effect 30588492355]
[Photoelectric effect 30588492355]: https://farm6.staticflickr.com/5722/30588492355_147111fcd3_o.png
```

Note the image reference is generated from the image title (if there is one) and photo-id so should always be unique (i.e. no reference name clashes in your MMD documents).

## Uploading Local Images to Flickr

It's possible to upload images to Flickr via the command-line with options to set tags, album, titles, descriptions and privacy levels with picaxe. To do so use the command:

```
picaxe [-giop] upload <imagePath> [--title=<title> --tags=<tags> --desc=<desc> --album=<album>]
```

So in its simplest form you could upload an image with picaxe like:

```
picaxe upload "/path/to/image.png"
```

as *title*, *description*, *album* and *tags* are optional arguments. The `-g` flag indicates that the uploaded image is a screengrab, `-i` that it is an image (as opposed to a photo), `-p` requests that the image be made public and `-o` that the image be opened in the Flickr web-app in your default browser once upload has completed.

## Taking Screenshots with picaxe

The command for taking a screenshot with picaxe is similar to the command for uploading local images:

```
picaxe [-op] grab [--title=<title> --tags=<tags> --desc=<desc> --album=<album> --delay=<sec>]
```

By default picaxe will upload screenshots to a 'screengrabs' album unless a specific album is specified. All I need to do to trigger a screenshot selection cursor is run the following:

```
picaxe grab
```

I can now select the section of the screen I want to clip, or press space-bar to change to a window-selection cursor, and picaxe will upload the resulting image to flickr and dump the multi-markdown image link to stdout.

As this command is run from the terminal you will probably want a little time to navigate to the correct desktop/application you wish to take a screenshot of before the screen-capture cursor is activated. To do this pass in a delay in seconds via the `--delay` flag; so for a 3 sec delay run:

```
picaxe grab --delay=3
```





---

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### Usage:

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picaxe md <urlOrPhotoid> [<width>] [-s <pathToSettingsFile>]
picaxe albums [-s <pathToSettingsFile>]
picaxe [-giop] upload <imagePath> [--title=<title> --tags=<tags> --desc=<desc> --album=<album>]
picaxe [-op] grab [--title=<title> --tags=<tags> --desc=<desc> --album=<album> --delay=<sec>]
```

### Options:

init	setup the polygot settings file <a href="#">for</a> the first time
auth	authenticate picaxe against your flickr account
md	generate the MD reference link <a href="#">for</a> the image in the given flickr URL
albums	list all the albums in the flickr account
upload	upload a <a href="#">local</a> image to flickr
<pathToSettingsFile>	path to the picaxe settings file
<urlOrPhotoid>	the flickr URL or photoid
<width>	pixel width resolution of the linked image. Default <code>*original*</code> . [75 100 150]
<imagePath>	path to the <a href="#">local</a> image to upload to flickr
--title=<title>	the image title
--tags=<tags>	quoted, comma-sepatated tags
--desc=<desc>	image description
--delay=<sec>	the delay <a href="#">time</a> before screen-grab selection tool appears
-p, --public	make the image public ( <a href="#">private</a> by default)
-o, --open	open the image in the flickr web-app once uploaded
-i, --image	<code>"photo"</code> is an image
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```

Note the image reference is generated from the image title (if there is one) and photo-id so should always be unique (i.e. no reference name clashes in your MMD documents).

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```
picaxe grab --delay=3
```

## Subpackages

---

<i>picaxe</i>	
<i>picaxe.commonutils</i>	<i>common tools used throughout package</i>

---

### picaxe (*subpackage*)

#### picaxe.commonutils (*subpackage*)

*common tools used throughout package*

## Modules

---

<i>picaxe.cl_utils</i>	Documentation for picaxe can be found here: <a href="http://picaxe.readthedocs.org/en/stable">http://picaxe.readthedocs.org/en/stable</a>
<i>picaxe.utKit</i>	<i>Unit testing tools</i>

---

### picaxe.cl\_utils (*module*)

Documentation for picaxe can be found here: <http://picaxe.readthedocs.org/en/stable>

**Usage:** `picaxe init` `picaxe auth [-s <pathToSettingsFile>]` `picaxe md <urlOrPhotoid> [<width>] [-s <pathToSettingsFile>]` `picaxe albums [-s <pathToSettingsFile>]` `picaxe [-giop] upload <imagePath> [-title=<title> -tags=<tags> -desc=<desc> -album=<album>]` `picaxe [-op] grab [-title=<title> -tags=<tags> -desc=<desc> -album=<album> -delay=<sec>]`

**Options:** `init` setup the polygot settings file for the first time `auth` authenticate picaxe against your flickr account `md` generate the MD reference link for the image in the given flickr URL `albums` list all the albums in the flickr account `upload` upload a local image to flickr

<pathToSettingsFile> path to the picaxe settings file <urlOrPhotoid> the flickr URL or photoid <width> pixel width resolution of the linked image. Default *original*. [75|100|150|240|320|500|640|800|1024|1600|2048] <imagePath> path to the local image to upload to flickr

`--title=<title>` the image title  
`--tags=<tags>` quoted, comma-sepatated tags

```

--desc=<desc>      image description
--delay=<sec>      the delay time before screen-grab selection tool appears
-p, --public       make the image public (private by default)
-o, --open         open the image in the flickr web-app once uploaded
-i, --image        "photo" is an image
-g, --screenGrab   "photo" is a screengrab
-h, --help         show this help message
-v, --version      show version
-s, --settings     the settings file
    
```

`picaxe.cl_utils.main` (*arguments=None*)

*The main function used when "cl\_utils.py" is run as a single script from the cl, or when installed as a cl command*

### picaxe.utKit (module)

*Unit testing tools*

`class picaxe.utKit.utKit` (*moduleDirectory*)

*Override dryx utKit*

## Classes

---

<code>picaxe.picaxe</code>	<i>work with the Flickr API to upload images, sort images, generate MD image reference links etc</i>
<code>picaxe.utKit.utKit</code>	<i>Override dryx utKit</i>

---

### picaxe.picaxe (class)

`class picaxe.picaxe` (*log, settings=False, pathToSettingsFile=False*)

*work with the Flickr API to upload images, sort images, generate MD image reference links etc*

#### Key Arguments:

- `log` – logger
- `settings` – the settings dictionary
- `pathToSettingsFile` – path to the settings file

`__init__` (*log, settings=False, pathToSettingsFile=False*)

#### Methods

---

<code>__init__(log[, settings, pathToSettingsFile])</code>	
<code>authenticate()</code>	<i>setup a Flickr API key to access a Flickr user account so picaxe can work on private</i>
<code>get_photo_metadata(url)</code>	<i>get useful image metadata for the image found at a give Flickr share URL</i>
<code>list_album_titles()</code>	<i>list all of the albums (photosets) in the Flickr account</i>
<code>md(url[, width])</code>	<i>generate a multimarkdown image link viewable anywhere (no sign-in needed for private)</i>

Continued on

Table 8.4 – continued from previous page

upload(imagePath[, title, private, tags, ...])	<i>upload</i>
--	---------------

**picaxe.utKit.utKit (class)****class** picaxe.utKit.**utKit** (*moduleDirectory*)*Override dryx utKit***\_\_init\_\_** (*moduleDirectory*)**Methods**

<b>__init__</b> ( <i>moduleDirectory</i> )	
setupModule()	<i>The setupModule method</i>
tearDownModule()	<i>The tearDownModule method</i>

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