
PhotoScript

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CONTENTS

1	PhotoScript	1
1.1	What is PhotoScript	1
1.2	Installation	1
1.3	Example	1
1.4	See Also	2
2	Documentation	3
2.1	photoscript package	3
2.1.1	photoscript.photoscript module	3
3	Indices and tables	7
	Index	9

PHOTOSCRIPT

1.1 What is PhotoScript

PhotoScript provides a python wrapper around Apple Photos applescript interface. With PhotoScript you can interact with Photos using python. Runs only on MacOS. Tested on MacOS Catalina.

1.2 Installation

PhotoScript uses setuptools, thus simply run:

```
python3 setup.py install
```

1.3 Example

```
""" Simple example showing use of photoscript """

import photoscript

photoslib = photoscript.PhotosLibrary()

photoslib.activate()
print(f"Running Photos version: {photoslib.version}")

album = photoslib.album("Album1")
photos = album.photos

for photo in photos:
    print(f"{photo.title}, {photo.description}, {photo.keywords}")

new_album = photoslib.create_album("New Album")
photoslib.import_photos(["/Users/rhet/Downloads/test.jpeg"], album=new_album)

photoslib.quit()
```

1.4 See Also

- [osxphotos](#): Python package that provides read-only access to the Photos library including all associated meta-data.

DOCUMENTATION

2.1 photoscript package

2.1.1 photoscript.photoscript module

```
class photoscript.photoscript.PhotosLibrary
```

```
    activate()
```

activate Photos.app

```
    album(*name, uuid=None)
```

Album instance by name or id

Parameters

- **name** – name of album
- **uuid** – id of album

Returns Album object or None if album could not be found

Raises: ValueError if both name and id passed. Must pass only name or id but not both.

```
    album_names(top_level=False)
```

List of album names in the Photos library

Parameters **top_level** – if True, returns only top-level albums otherwise also returns albums in sub-folders; default is False

```
    albums(top_level=False)
```

list of Album objects for all albums

```
    create_album(name)
```

creates a top level album

Returns Album object for newly created album

```
    delete_album(album)
```

deletes album (but does not delete photos in the album)

Parameters **album** – an Album object for album to delete

```
    property favorites
```

Album object for the Favorites album

```
    folder_names(top_level=False)
```

List of folder names in the Photos library

Parameters **top_level** – if True, returns only top-level folders otherwise also returns sub-folders; default is False

property **frontmost**

True if Photos.app is front most app otherwise False

import_photos (*photo_paths*, *album=None*, *skip_duplicate_check=False*)

import photos

Parameters

- **photos** – list of file paths to import
- **album** – optional, Album object for album to import into
- **skip_duplicate_check** – if True, Photos will not check for duplicates on import, default is False

property **name**

name of Photos.app

photos (*search=None*, *uuid=None*)

List of Photo objects for items in the library Note: for a large library, calling photos() may run a *very* long time (minutes)

Parameters

- **search** – optional text string to search for (returns matching items)
- **uuid** – list of UUIDs to get
- **may pass search or uuid but not both** (*you*) –

Returns List of Photo objects or [] if no photos found

Raises: ValueError if both search and uuid are passed

quit ()

quit Photos.app

property **selection**

List of Photo objects for currently selected photos or [] if no selection

property **version**

version of Photos.app

class photoscript.photoscript.**Album** (*uuid*)

add (*photos*)

add photos from the library to album

Parameters **photos** – list of Photo objects to add to album

export (*path*, *original=True*, *edited=True*, *timeout=120*)

Export photos in album to path

Parameters

- **path** – path to export to
- **original** – if True exports original photo
- **edited** – if True, exports edited version, if one exists
- **timeout** – number of seconds to timeout waiting for Photos to respond

Returns list of names of exported photos

import_photos (*photo_paths*, *skip_duplicate_check=False*)
import photos

Parameters

- **photos** – list of file paths to import
- **skip_duplicate_check** – if True, Photos will not check for duplicates on import, default is False

property name
name of album

property parent_id
parent container id

property photos
list of Photo objects for photos contained in album

remove (*photos*)

Remove photos from album. Note: Photos does not provide a way to remove photos from an album via AppleScript. This method actually creates a new Album with the same name as the original album and copies all photos from original album with exception of those to remove to the new album then deletes the old album.

Parameters **photos** – list of Photo objects to remove

Returns new Album object for the new album with photos removed.

remove_by_id (*photo_ids*)

Remove photos from album. Note: Photos does not provide a way to remove photos from an album via AppleScript. This method actually creates a new Album with the same name as the original album and copies all photos from original album with exception of those to remove to the new album then deletes the old album.

Parameters **photo_ids** – list of photo ids to remove

Returns new Album object for the new album with photos removed.

property title
title of album (alias for Album.name)

property uuid
UUID of Album

class photoscript.photoscript.**Photo** (*uuid*)

property altitude
GPS altitude of photo in meters

property date
date of photo as timezone-naive datetime.datetime object

property description
description of photo

duplicate ()
duplicates the photo and returns Photo object for the duplicate

export (*path*, *original=True*, *edited=True*, *timeout=120*)

Export photo

Parameters

- **path** – path to export to
- **original** – if True exports original photo
- **edited** – if True, exports edited version, if one exists
- **timeout** – number of seconds to timeout waiting for Photos to respond

Returns name of exported photo

property favorite

return favorite status (boolean)

property filename

filename of photo

property height

height of photo in pixels

property keywords

list of keywords for photo

property location

The GPS latitude and longitude, in a tuple of 2 numbers or None. Latitude in range -90.0 to 90.0, longitude in range -180.0 to 180.0.

property name

name of photo

property title

title of photo (alias for name)

property uuid

UUID of Photo

property width

width of photo in pixels

INDICES AND TABLES

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

INDEX

A

`activate()` (*photoscript.photoscript.PhotosLibrary method*), 3
`add()` (*photoscript.photoscript.Album method*), 4
`Album` (*class in photoscript.photoscript*), 4
`album()` (*photoscript.photoscript.PhotosLibrary method*), 3
`album_names()` (*photoscript.photoscript.PhotosLibrary method*), 3
`albums()` (*photoscript.photoscript.PhotosLibrary method*), 3
`altitude()` (*photoscript.photoscript.Photo property*), 5

C

`create_album()` (*photoscript.photoscript.PhotosLibrary method*), 3

D

`date()` (*photoscript.photoscript.Photo property*), 5
`delete_album()` (*photoscript.photoscript.PhotosLibrary method*), 3
`description()` (*photoscript.photoscript.Photo property*), 5
`duplicate()` (*photoscript.photoscript.Photo method*), 5

E

`export()` (*photoscript.photoscript.Album method*), 4
`export()` (*photoscript.photoscript.Photo method*), 5

F

`favorite()` (*photoscript.photoscript.Photo property*), 6
`favorites()` (*photoscript.photoscript.PhotosLibrary property*), 3
`filename()` (*photoscript.photoscript.Photo property*), 6

`folder_names()` (*photoscript.photoscript.PhotosLibrary method*), 3
`frontmost()` (*photoscript.photoscript.PhotosLibrary property*), 4

H

`height()` (*photoscript.photoscript.Photo property*), 6

I

`import_photos()` (*photoscript.photoscript.Album method*), 5
`import_photos()` (*photoscript.photoscript.PhotosLibrary method*), 4

K

`keywords()` (*photoscript.photoscript.Photo property*), 6

L

`location()` (*photoscript.photoscript.Photo property*), 6

N

`name()` (*photoscript.photoscript.Album property*), 5
`name()` (*photoscript.photoscript.Photo property*), 6
`name()` (*photoscript.photoscript.PhotosLibrary property*), 4

P

`parent_id()` (*photoscript.photoscript.Album property*), 5
`Photo` (*class in photoscript.photoscript*), 5
`photos()` (*photoscript.photoscript.Album property*), 5
`photos()` (*photoscript.photoscript.PhotosLibrary method*), 4
`PhotosLibrary` (*class in photoscript.photoscript*), 3

Q

`quit()` (*photoscript.photoscript.PhotosLibrary method*), 4

R

`remove()` (*photoscript.photoscript.Album method*), 5
`remove_by_id()` (*photoscript.photoscript.Album method*), 5

S

`selection()` (*photoscript.photoscript.PhotosLibrary property*), 4

T

`title()` (*photoscript.photoscript.Album property*), 5
`title()` (*photoscript.photoscript.Photo property*), 6

U

`uuid()` (*photoscript.photoscript.Album property*), 5
`uuid()` (*photoscript.photoscript.Photo property*), 6

V

`version()` (*photoscript.photoscript.PhotosLibrary property*), 4

W

`width()` (*photoscript.photoscript.Photo property*), 6