# osxphotos

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**CHAPTER** 

**ONE** 

# **OSXPHOTOS COMMAND LINE INTERFACE (CLI)**

# 1.1 osxphotos

osxphotos [OPTIONS] COMMAND [ARGS]...

### **Options**

--db <Photos database path>

Specify Photos database path. Path to Photos library/database can be specified using either —db or directly as PHOTOS\_LIBRARY positional argument. If neither —db or PHOTOS\_LIBRARY provided, will attempt to find the library to use in the following order: 1. last opened library, 2. system library, 3. ~/Pictures/Photos Library.photoslibrary

#### --json

Print output in JSON format.

### -v, --version

Show the version and exit.

### 1.1.1 about

Print information about osxphotos including license.

osxphotos about [OPTIONS]

### 1.1.2 albums

Print out albums found in the Photos library.

osxphotos albums [OPTIONS] [PHOTOS\_LIBRARY]...

### **Options**

### --db <Photos database path>

Specify Photos database path. Path to Photos library/database can be specified using either —db or directly as PHOTOS\_LIBRARY positional argument. If neither —db or PHOTOS\_LIBRARY provided, will attempt to find the library to use in the following order: 1. last opened library, 2. system library, 3. ~/Pictures/Photos Library.photoslibrary

### --json

Print output in JSON format.

### **Arguments**

### PHOTOS\_LIBRARY

Optional argument(s)

### 1.1.3 dump

Print list of all photos & associated info from the Photos library.

```
osxphotos dump [OPTIONS] [PHOTOS_LIBRARY]...
```

### **Options**

### --db <Photos database path>

Specify Photos database path. Path to Photos library/database can be specified using either —db or directly as PHOTOS\_LIBRARY positional argument. If neither —db or PHOTOS\_LIBRARY provided, will attempt to find the library to use in the following order: 1. last opened library, 2. system library, 3. ~/Pictures/Photos Library.photoslibrary

### --json

Print output in JSON format.

### --deleted

Include photos from the 'Recently Deleted' folder.

### --deleted-only

Include only photos from the 'Recently Deleted' folder.

### **Arguments**

### PHOTOS\_LIBRARY

Optional argument(s)

### **1.1.4** export

Export photos from the Photos database. Export path DEST is required. Optionally, query the Photos database using 1 or more search options; if more than one option is provided, they are treated as "AND" (e.g. search for photos matching all options). If no query options are provided, all photos will be exported. By default, all versions of all photos will be exported including edited versions, live photo movies, burst photos, and associated raw images. See –skip-edited, –skip-live, –skip-bursts, and –skip-raw options to modify this behavior.

```
osxphotos export [OPTIONS] [PHOTOS_LIBRARY]... DEST
```

### **Options**

#### --db <Photos database path>

Specify Photos database path. Path to Photos library/database can be specified using either —db or directly as PHOTOS\_LIBRARY positional argument. If neither —db or PHOTOS\_LIBRARY provided, will attempt to find the library to use in the following order: 1. last opened library, 2. system library, 3. ~/Pictures/Photos Library.photoslibrary

#### -V, --verbose

Print verbose output.

### --keyword <KEYWORD>

Search for photos with keyword KEYWORD. If more than one keyword, treated as "OR", e.g. find photos matching any keyword

### --person <PERSON>

Search for photos with person PERSON. If more than one person, treated as "OR", e.g. find photos matching any person

### --album <ALBUM>

Search for photos in album ALBUM. If more than one album, treated as "OR", e.g. find photos matching any album

#### --folder <FOLDER>

Search for photos in an album in folder FOLDER. If more than one folder, treated as "OR", e.g. find photos in any FOLDER. Only searches top level folders (e.g. does not look at subfolders)

### --uuid <UUID>

Search for photos with UUID(s).

### --uuid-from-file <FILE>

Search for photos with UUID(s) loaded from FILE. Format is a single UUID per line. Lines preceded with # are ignored.

### --title <TITLE>

Search for TITLE in title of photo.

### --no-title

Search for photos with no title.

#### --description <DESC>

Search for DESC in description of photo.

### --no-description

Search for photos with no description.

### --place <PLACE>

Search for PLACE in photo's reverse geolocation info

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### --no-place

Search for photos with no associated place name info (no reverse geolocation info)

#### --label <LABEL>

Search for photos with image classification label LABEL (Photos 5 only). If more than one label, treated as "OR", e.g. find photos matching any label

#### --uti <UTI>

Search for photos whose uniform type identifier (UTI) matches UTI

### -i, --ignore-case

Case insensitive search for title, description, place, keyword, person, or album.

#### --edited

Search for photos that have been edited.

#### --external-edit

Search for photos edited in external editor.

### --favorite

Search for photos marked favorite.

#### --not-favorite

Search for photos not marked favorite.

#### --hidden

Search for photos marked hidden.

#### --not-hidden

Search for photos not marked hidden.

#### --shared

Search for photos in shared iCloud album (Photos 5 only).

#### --not-shared

Search for photos not in shared iCloud album (Photos 5 only).

#### --burst

Search for photos that were taken in a burst.

#### --not-burst

Search for photos that are not part of a burst.

#### --live

Search for Apple live photos

#### --not-live

Search for photos that are not Apple live photos.

#### --portrait

Search for Apple portrait mode photos.

### --not-portrait

Search for photos that are not Apple portrait mode photos.

#### --screenshot

Search for screenshot photos.

### --not-screenshot

Search for photos that are not screenshot photos.

### --slow-mo

Search for slow motion videos.

#### --not-slow-mo

Search for photos that are not slow motion videos.

### --time-lapse

Search for time lapse videos.

### --not-time-lapse

Search for photos that are not time lapse videos.

#### --hdr

Search for high dynamic range (HDR) photos.

#### --not-hdr

Search for photos that are not HDR photos.

#### --selfie

Search for selfies (photos taken with front-facing cameras).

### --not-selfie

Search for photos that are not selfies.

#### --panorama

Search for panorama photos.

### --not-panorama

Search for photos that are not panoramas.

#### --has-raw

Search for photos with both a jpeg and raw version

### --only-movies

Search only for movies (default searches both images and movies).

### --only-photos

Search only for photos/images (default searches both images and movies).

### --from-date <from\_date>

Search by start item date, e.g. 2000-01-12T12:00:00, 2001-01-12T12:00:00-07:00, or 2000-12-31 (ISO 8601).

### --to-date <to\_date>

Search by end item date, e.g. 2000-01-12T12:00:00, 2001-01-12T12:00:00-07:00, or 2000-12-31 (ISO 8601).

### --has-comment

Search for photos that have comments.

### --no-comment

Search for photos with no comments.

#### --has-likes

Search for photos that have likes.

### --no-likes

Search for photos with no likes.

### --is-reference

Search for photos that were imported as referenced files (not copied into Photos library).

#### --missing

Export only photos missing from the Photos library; must be used with -download-missing.

### --deleted

Include photos from the 'Recently Deleted' folder.

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#### --deleted-only

Include only photos from the 'Recently Deleted' folder.

### --update

Only export new or updated files. See notes below on export and -update.

### --ignore-signature

When used with –update, ignores file signature when updating files. This is useful if you have processed or edited exported photos changing the file signature (size & modification date). In this case, –update would normally re-export the processed files but with –ignore-signature, files which exist in the export directory will not be re-exported.

### --dry-run

Dry run (test) the export but don't actually export any files; most useful with -verbose.

### --export-as-hardlink

Hardlink files instead of copying them. Cannot be used with –exiftool which creates copies of the files with embedded EXIF data. Note: on APFS volumes, files are cloned when exporting giving many of the same advantages as hardlinks without having to use –export-as-hardlink.

#### --touch-file

Sets the file's modification time to match photo date.

#### --overwrite

Overwrite existing files. Default behavior is to add (1), (2), etc to filename if file already exists. Use this with caution as it may create name collisions on export. (e.g. if two files happen to have the same name)

### --export-by-date

Automatically create output folders to organize photos by date created (e.g. DEST/2019/12/20/photoname.jpg).

### --skip-edited

Do not export edited version of photo if an edited version exists.

### --skip-original-if-edited

Do not export original if there is an edited version (exports only the edited version).

### --skip-bursts

Do not export all associated burst images in the library if a photo is a burst photo.

#### --skip-live

Do not export the associated live video component of a live photo.

### --skip-raw

Do not export associated raw images of a RAW+JPEG pair. Note: this does not skip raw photos if the raw photo does not have an associated jpeg image (e.g. the raw file was imported to Photos without a jpeg preview).

#### --current-name

Use photo's current filename instead of original filename for export. Note: Starting with Photos 5, all photos are renamed upon import. By default, photos are exported with the the original name they had before import.

### --convert-to-jpeg

Convert all non-jpeg images (e.g. raw, HEIC, PNG, etc) to JPEG upon export. Only works if your Mac has a GPU.

### --jpeg-quality <jpeg\_quality>

Value in range 0.0 to 1.0 to use with –convert-to-jpeg. A value of 1.0 specifies best quality, a value of 0.0 specifies maximum compression. Defaults to 1.0

### --download-missing

Attempt to download missing photos from iCloud. The current implementation uses Applescript to interact with Photos to export the photo which will force Photos to download from iCloud if the photo does not exist on disk. This will be slow and will require internet connection. This obviously only works if the Photos library is

synched to iCloud. Note: -download-missing does not currently export all burst images; only the primary photo will be exported-associated burst images will be skipped.

#### --sidecar <FORMAT>

Create sidecar for each photo exported; valid FORMAT values: xmp, json, exiftool; –sidecar xmp: create XMP sidecar used by Digikam, Adobe Lightroom, etc. The sidecar file is named in format photoname.ext.xmp The XMP sidecar exports the following tags: Description, Title, Keywords/Tags, Subject (set to Keywords + Person-InImage), PersonInImage, CreateDate, ModifyDate, GPSLongitude, Face Regions (Metadata Working Group and Microsoft Photo). –sidecar json: create JSON sidecar useable by exiftool (https://exiftool.org/) The sidecar file can be used to apply metadata to the file with exiftool, for example: "exiftool -j=photoname.jpg.json photoname.jpg" The sidecar file is named in format photoname.ext.json; format includes tag groups (equivalent to running 'exiftool -G -j'). –sidecar exiftool: create JSON sidecar compatible with output of 'exiftool -j'. Unlike '–sidecar json', '–sidecar exiftool' does not export tag groups. Sidecar filename is in format photoname.ext.json; For a list of tags exported in the JSON and exiftool sidecar, see '–exiftool'.

### **Options** xmpljsonlexiftool

### --sidecar-drop-ext

Drop the photo's extension when naming sidecar files. By default, sidecar files are named in format 'photo\_filename.photo\_ext.sidecar\_ext', e.g. 'IMG\_1234.JPG.xmp'. Use '-sidecar-drop-ext' to ignore the photo extension. Resulting sidecar files will have name in format 'IMG\_1234.xmp'. Warning: this may result in sidecar filename collisions if there are files of different types but the same name in the output directory, e.g. 'IMG\_1234.JPG' and 'IMG\_1234.MOV'.

### --exiftool

Use exiftool to write metadata directly to exported photos. To use this option. exiftool must be installed and in the path. exiftool may be installed from https://exiftool.org/. Cannot be used with -export-as-hardlink. Writes the following metadata: EXIF:ImageDescription, XMP:Description (see also –description-template); XMP:Title; XMP:TagsList, IPTC:Keywords, XMP:Subject (see also -keyword-template, -person-keyword, -album-keyword); XMP:PersonInImage; EXIF:GPSLongitudeRef; EXIF:GPSLatitudeRef; EXIF:GPSLatitude; EXIF:GPSLongitude; EXIF:GPSPosition; EXIF:DateTimeOriginal; EXIF:OffsetTimeOriginal; EXIF:ModifyDate (see -ignoredate-modified); IPTC:DateCreated; IPTC:TimeCreated; (video files only): QuickTime:CreationDate; Quick-Time:CreateDate; QuickTime:ModifyDate (see also -ignore-date-modified); QuickTime:GPSCoordinates; UserData:GPSCoordinates.

#### --exiftool-path <EXIFTOOL\_PATH>

Optionally specify path to exiftool; if not provided, will look for exiftool in \$PATH.

### --exiftool-option <OPTION>

Optional flag/option to pass to exiftool when using –exiftool. For example, –exiftool-option '-m' to ignore minor warnings. Specify these as you would on the exiftool command line. See exiftool docs at https://exiftool.org/exiftool\_pod.html for full list of options. More than one option may be specified by repeating the option, e.g. –exiftool-option '-m' –exiftool-option '-F'.

#### --exiftool-merge-keywords

Merge any keywords found in the original file with keywords used for '-exiftool' and '-sidecar'.

### --exiftool-merge-persons

Merge any persons found in the original file with persons used for '-exiftool' and '-sidecar'.

#### --ignore-date-modified

If used with -exiftool or -sidecar, will ignore the photo modification date and set EXIF:ModifyDate to EXIF:DateTimeOriginal; this is consistent with how Photos handles the EXIF:ModifyDate tag.

### --person-keyword

Use person in image as keyword/tag when exporting metadata.

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### --album-keyword

Use album name as keyword/tag when exporting metadata.

### --keyword-template <TEMPLATE>

For use with -exiftool, -sidecar; specify a template string to use as keyword in the form '{name,DEFAULT}' This is the same format as -directory. For example, if you wanted to add the full path to the folder and album photo is contained in as a keyword when exporting you could specify -keyword-template "{folder\_album}" You may specify more than one template, for example -keyword-template "{folder\_album}" -keyword-template "{created.year}" See Templating System below.

### --description-template <TEMPLATE>

For use with –exiftool, –sidecar; specify a template string to use as description in the form '{name,DEFAULT}' This is the same format as –directory. For example, if you wanted to append 'exported with osxphotos on [today's date]' to the description, you could specify –description-template "{descr} exported with osxphotos on {today.date}" See Templating System below.

### --finder-tag-template <TEMPLATE>

Set MacOS Finder tags to TEMPLATE. These tags can be searched in the Finder or Spotlight with 'tag:tagname' format. For example, '-finder-tag-template "{label}" to set Finder tags to photo labels. You may specify multiple TEMPLATE values by using '-finder-tag-template' multiple times. See also '-finder-tag-keywords and Extended Attributes below.'

### --finder-tag-keywords

Set MacOS Finder tags to keywords; any keywords specified via '-keyword-template', '-person-keyword', etc. will also be used as Finder tags. See also '-finder-tag-template and Extended Attributes below.'.

### --xattr-template <ATTRIBUTE TEMPLATE>

Set extended attribute ATTRIBUTE to TEMPLATE value. Valid attributes are: 'authors', 'comment', 'copyright', 'description', 'findercomment', 'headline', 'keywords'. For example, to set Finder comment to the photo's title and description: '-xattr-template findercomment "{title}; {descr}" See Extended Attributes below for additional details on this option.

### --directory <DIRECTORY>

Optional template for specifying name of output directory in the form '{name,DEFAULT}'. See below for additional details on templating system.

### --filename <FILENAME>

Optional template for specifying name of output file in the form '{name,DEFAULT}'. File extension will be added automatically—do not include an extension in the FILENAME template. See below for additional details on templating system.

### --jpeg-ext <EXTENSION>

Specify file extension for JPEG files. Photos uses .jpeg for edited images but many images are imported with .jpg or .JPG which can result in multiple different extensions used for JPEG files upon export. Use –jpg-ext to specify a single extension to use for all exported JPEG images. Valid values are jpeg, jpg, JPEG, JPG; e.g. '–jpg-ext jpg' to use '.jpg' for all JPEGs.

### Options jpegljpglJPEGlJPG

### --strip

Optionally strip leading and trailing whitespace from any rendered templates. For example, if –filename template is "{title,} {original\_name}" and image has no title, resulting file would have a leading space but if used with –strip, this will be removed.

### --edited-suffix <SUFFIX>

Optional suffix template for naming edited photos. Default name for edited photos is in form 'photon-ame\_edited.ext'. For example, with '-edited-suffix \_bearbeiten', the edited photo would be named 'photon-ame\_bearbeiten.ext'. The default suffix is '\_edited'. Multi-value templates (see Templating System) are not permitted with -edited-suffix.

#### --original-suffix <SUFFIX>

Optional suffix template for naming original photos. Default name for original photos is in form 'filename.ext'. For example, with '-original-suffix \_original', the original photo would be named 'filename\_original.ext'. The default suffix is '' (no suffix). Multi-value templates (see Templating System) are not permitted with -original-suffix.

### --use-photos-export

Force the use of AppleScript or PhotoKit to export even if not missing (see also '-download-missing' and '-use-photokit').

### --use-photokit

Use with '-download-missing' or '-use-photos-export' to use direct Photos interface instead of AppleScript to export. Highly experimental alpha feature; does not work with iTerm2 (use with Terminal.app). This is faster and more reliable than the default AppleScript interface.

#### --report <path to export report>

Write a CSV formatted report of all files that were exported.

### --cleanup

Cleanup export directory by deleting any files which were not included in this export set. For example, photos which had previously been exported and were subsequently deleted in Photos.

### --exportdb <EXPORTDB FILE>

Specify alternate name for database file which stores state information for export and –update. If –exportdb is not specified, export database will be saved to '.osxphotos\_export.db' in the export directory. Must be specified as filename only, not a path, as export database will be saved in export directory.

### --load-config <config file path>

Load options from file as written with –save-config. This allows you to save a complex export command to file for later reuse. For example: 'osxphotos export <lots of options here> –save-config osxphotos.toml' then 'osxphotos export /path/to/export –load-config osxphotos.toml'. If any other command line options are used in conjunction with –load-config, they will override the corresponding values in the config file.

### --save-config <config file path>

Save options to file for use with –load-config. File format is TOML.

### **Arguments**

### PHOTOS\_LIBRARY

Optional argument(s)

#### DEST

Required argument

### 1.1.5 help

Print help; for help on commands: help <command>.

osxphotos help [OPTIONS] [TOPIC]

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### **Arguments**

#### TOPIC

Optional argument

### 1.1.6 info

Print out descriptive info of the Photos library database.

```
osxphotos info [OPTIONS] [PHOTOS_LIBRARY]...
```

### **Options**

--db <Photos database path>

Specify Photos database path. Path to Photos library/database can be specified using either —db or directly as PHOTOS\_LIBRARY positional argument. If neither —db or PHOTOS\_LIBRARY provided, will attempt to find the library to use in the following order: 1. last opened library, 2. system library, 3. ~/Pictures/Photos Library.photoslibrary

### --json

Print output in JSON format.

### **Arguments**

### PHOTOS\_LIBRARY

Optional argument(s)

### 1.1.7 keywords

Print out keywords found in the Photos library.

```
osxphotos keywords [OPTIONS] [PHOTOS_LIBRARY]...
```

### **Options**

--db <Photos database path>

Specify Photos database path. Path to Photos library/database can be specified using either —db or directly as PHOTOS\_LIBRARY positional argument. If neither —db or PHOTOS\_LIBRARY provided, will attempt to find the library to use in the following order: 1. last opened library, 2. system library, 3. ~/Pictures/Photos Library.photoslibrary

#### --json

Print output in JSON format.

### **Arguments**

#### PHOTOS LIBRARY

Optional argument(s)

### **1.1.8 labels**

Print out image classification labels found in the Photos library.

```
osxphotos labels [OPTIONS] [PHOTOS_LIBRARY]...
```

### **Options**

--db <Photos database path>

Specify Photos database path. Path to Photos library/database can be specified using either —db or directly as PHOTOS\_LIBRARY positional argument. If neither —db or PHOTOS\_LIBRARY provided, will attempt to find the library to use in the following order: 1. last opened library, 2. system library, 3. ~/Pictures/Photos Library.photoslibrary

### --json

Print output in JSON format.

### **Arguments**

### PHOTOS\_LIBRARY

Optional argument(s)

### 1.1.9 list

Print list of Photos libraries found on the system.

```
osxphotos list [OPTIONS]
```

### **Options**

### --json

Print output in JSON format.

### **1.1.10 persons**

Print out persons (faces) found in the Photos library.

```
osxphotos persons [OPTIONS] [PHOTOS_LIBRARY]...
```

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### **Options**

--db <Photos database path>

Specify Photos database path. Path to Photos library/database can be specified using either —db or directly as PHOTOS\_LIBRARY positional argument. If neither —db or PHOTOS\_LIBRARY provided, will attempt to find the library to use in the following order: 1. last opened library, 2. system library, 3. ~/Pictures/Photos Library.photoslibrary

### --json

Print output in JSON format.

### **Arguments**

#### PHOTOS\_LIBRARY

Optional argument(s)

### 1.1.11 places

Print out places found in the Photos library.

```
osxphotos places [OPTIONS] [PHOTOS_LIBRARY]...
```

### **Options**

--db <Photos database path>

Specify Photos database path. Path to Photos library/database can be specified using either —db or directly as PHOTOS\_LIBRARY positional argument. If neither —db or PHOTOS\_LIBRARY provided, will attempt to find the library to use in the following order: 1. last opened library, 2. system library, 3. ~/Pictures/Photos Library.photoslibrary

### --json

Print output in JSON format.

### **Arguments**

### PHOTOS LIBRARY

Optional argument(s)

### 1.1.12 query

Query the Photos database using 1 or more search options; if more than one option is provided, they are treated as "AND" (e.g. search for photos matching all options).

```
osxphotos query [OPTIONS] [PHOTOS_LIBRARY]...
```

### **Options**

### --db <Photos database path>

Specify Photos database path. Path to Photos library/database can be specified using either —db or directly as PHOTOS\_LIBRARY positional argument. If neither —db or PHOTOS\_LIBRARY provided, will attempt to find the library to use in the following order: 1. last opened library, 2. system library, 3. ~/Pictures/Photos Library.photoslibrary

### --json

Print output in JSON format.

### --keyword <KEYWORD>

Search for photos with keyword KEYWORD. If more than one keyword, treated as "OR", e.g. find photos matching any keyword

### --person <PERSON>

Search for photos with person PERSON. If more than one person, treated as "OR", e.g. find photos matching any person

#### --album <ALBUM>

Search for photos in album ALBUM. If more than one album, treated as "OR", e.g. find photos matching any album

### --folder <FOLDER>

Search for photos in an album in folder FOLDER. If more than one folder, treated as "OR", e.g. find photos in any FOLDER. Only searches top level folders (e.g. does not look at subfolders)

#### --uuid <UUID>

Search for photos with UUID(s).

#### --uuid-from-file <FILE>

Search for photos with UUID(s) loaded from FILE. Format is a single UUID per line. Lines preceded with # are ignored.

### --title <TITLE>

Search for TITLE in title of photo.

#### --no-title

Search for photos with no title.

#### --description <DESC>

Search for DESC in description of photo.

### --no-description

Search for photos with no description.

#### --place <PLACE>

Search for PLACE in photo's reverse geolocation info

### --no-place

Search for photos with no associated place name info (no reverse geolocation info)

### --label <LABEL>

Search for photos with image classification label LABEL (Photos 5 only). If more than one label, treated as "OR", e.g. find photos matching any label

### --uti <UTI>

Search for photos whose uniform type identifier (UTI) matches UTI

### -i, --ignore-case

Case insensitive search for title, description, place, keyword, person, or album.

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#### --edited

Search for photos that have been edited.

#### --external-edit

Search for photos edited in external editor.

### --favorite

Search for photos marked favorite.

#### --not-favorite

Search for photos not marked favorite.

#### --hidden

Search for photos marked hidden.

#### --not-hidden

Search for photos not marked hidden.

### --shared

Search for photos in shared iCloud album (Photos 5 only).

#### --not-shared

Search for photos not in shared iCloud album (Photos 5 only).

### --burst

Search for photos that were taken in a burst.

#### --not-burst

Search for photos that are not part of a burst.

#### --live

Search for Apple live photos

### --not-live

Search for photos that are not Apple live photos.

### --portrait

Search for Apple portrait mode photos.

### --not-portrait

Search for photos that are not Apple portrait mode photos.

### --screenshot

Search for screenshot photos.

### --not-screenshot

Search for photos that are not screenshot photos.

#### --slow-mo

Search for slow motion videos.

### --not-slow-mo

Search for photos that are not slow motion videos.

### --time-lapse

Search for time lapse videos.

#### --not-time-lapse

Search for photos that are not time lapse videos.

### --hdr

Search for high dynamic range (HDR) photos.

#### --not-hdr

Search for photos that are not HDR photos.

#### --selfie

Search for selfies (photos taken with front-facing cameras).

### --not-selfie

Search for photos that are not selfies.

#### --panorama

Search for panorama photos.

### --not-panorama

Search for photos that are not panoramas.

#### --has-raw

Search for photos with both a jpeg and raw version

#### --only-movies

Search only for movies (default searches both images and movies).

### --only-photos

Search only for photos/images (default searches both images and movies).

### --from-date <from\_date>

Search by start item date, e.g. 2000-01-12T12:00:00, 2001-01-12T12:00:00-07:00, or 2000-12-31 (ISO 8601).

### --to-date <to\_date>

Search by end item date, e.g. 2000-01-12T12:00:00, 2001-01-12T12:00:00-07:00, or 2000-12-31 (ISO 8601).

#### --has-comment

Search for photos that have comments.

### --no-comment

Search for photos with no comments.

### --has-likes

Search for photos that have likes.

### --no-likes

Search for photos with no likes.

### --is-reference

Search for photos that were imported as referenced files (not copied into Photos library).

### --deleted

Include photos from the 'Recently Deleted' folder.

#### --deleted-only

Include only photos from the 'Recently Deleted' folder.

### --missing

Search for photos missing from disk.

### --not-missing

Search for photos present on disk (e.g. not missing).

#### --cloudasset

Search for photos that are part of an iCloud library

### --not-cloudasset

Search for photos that are not part of an iCloud library

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### osxphotos

### --incloud

Search for photos that are in iCloud (have been synched)

### --not-incloud

Search for photos that are not in iCloud (have not been synched)

# **Arguments**

### PHOTOS LIBRARY

Optional argument(s)

### OSXPHOTOS PACKAGE

# 2.1 osxphotos module

**class** osxphotos.**PhotosDB**(*dbfile=None*, *verbose=None*, *exiftool=None*)

Processes a Photos.app library database to extract information about photos

### property album\_info

return list of AlbumInfo objects for each album in the photos database

### property album\_info\_shared

return list of AlbumInfo objects for each shared album in the photos database only valid for Photos 5; on Photos <= 4, prints warning and returns empty list

### property albums

return list of albums found in photos database

### property albums\_as\_dict

return albums as dict of albums, count in reverse sorted order (descending)

#### property albums\_shared

return list of shared albums found in photos database only valid for Photos 5; on Photos <= 4, prints warning and returns empty list

### property albums\_shared\_as\_dict

returns shared albums as dict of albums, count in reverse sorted order (descending) valid only on Photos 5; on Photos <= 4, prints warning and returns empty dict

### property db\_path

returns path to the Photos library database PhotosDB was initialized with

### property db\_version

return the database version as stored in LiGlobals table

### property folder\_info

return list FolderInfo objects representing top-level folders in the photos database

#### property folders

return list of top-level folder names in the photos database

### get\_db\_connection()

Get connection to the working copy of the Photos database

**Returns** tuple of (connection, cursor) to sqlite3 database

#### get\_photo(uuid)

Returns a single photo matching uuid

**Parameters uuid** – the UUID of photo to get

Returns PhotoInfo instance for photo with UUID matching uuid or None if no match

#### property import\_info

return list of ImportInfo objects for each import session in the database

### property keywords

return list of keywords found in photos database

### property keywords\_as\_dict

return keywords as dict of keyword, count in reverse sorted order (descending)

#### property labels

return list of all search info labels found in the library

#### property labels\_as\_dict

count in reverse sorted order (descending)

Type return labels as dict of label

### property labels\_normalized

return list of all normalized search info labels found in the library

### property labels\_normalized\_as\_dict

count in reverse sorted order (descending)

Type return normalized labels as dict of label

#### property library\_path

returns path to the Photos library PhotosDB was initialized with

### property person\_info

return list of PersonInfo objects for each person in the photos database

### property persons

return list of persons found in photos database

### property persons\_as\_dict

return persons as dict of person, count in reverse sorted order (descending)

photos (keywords=None, uuid=None, persons=None, albums=None, images=True, movies=True,
from\_date=None, to\_date=None, intrash=False)

Return a list of PhotoInfo objects If called with no args, returns the entire database of photos If called with args, returns photos matching the args (e.g. keywords, persons, etc.) If more than one arg, returns photos matching all the criteria (e.g. keywords AND persons) If more than one keyword, uuid, persons, albums is passed, they are treated as "OR" criteria e.g. keywords=["wedding","vacation"] returns photos matching either keyword from\_date and to\_date may be either naive or timezone-aware datetime.datetime objects. If naive, timezone will be assumed to be local timezone.

### **Parameters**

- **keywords** list of keywords to search for
- uuid list of UUIDs to search for
- persons list of persons to search for
- albums list of album names to search for
- images if True, returns image files, if False, does not return images; default is True
- movies if True, returns movie files, if False, does not return movies; default is True
- **from\_date** return photos with creation date >= from\_date (datetime.datetime object, default None)

- to\_date return photos with creation date <= to\_date (datetime.datetime object, default None)
- intrash if True, returns only images in "Recently deleted items" folder, if False returns only photos that aren't deleted; default is False

**Returns** list of PhotoInfo objects

photos\_by\_uuid(uuids)

**Returns a list of photos with UUID in uuids.** Does not generate error if invalid or missing UUID passed. This is faster than using PhotosDB.photos if you have list of UUIDs. Returns photos regardless of intrash state.

Parameters uuid – list of UUIDs of photos to get

**Returns** list of PhotoInfo instance for photo with UUID matching uuid or [] if no match

**class** osxphotos.**PhotoInfo**(*db=None*, *uuid=None*, *info=None*)

Info about a specific photo, contains all the details about the photo including keywords, persons, albums, uuid, path, etc.

class ExifInfo (flash\_fired: bool, iso: int, metering\_mode: int, sample\_rate: int, track\_format: int, white\_balance: int, aperture: float, bit\_rate: float, duration: float, exposure\_bias: float, focal\_length: float, fps: float, latitude: float, longitude: float, shutter\_speed: float, camera\_make: str, camera\_model: str, codec: str, lens\_model: str)

EXIF info associated with a photo from the Photos library

aperture: float
bit\_rate: float
camera\_make: str
camera\_model: str

codec: str

duration: float

exposure\_bias: float
flash\_fired: bool

focal\_length: float

fps: float

iso: int

latitude: float
lens\_model: str
longitude: float
metering\_mode: int

sample\_rate: int

shutter\_speed: float

track\_format: int
white\_balance: int

class ExportResults (exported=None, new=None, updated=None, skipped=None, touched=None. converted\_to\_jpeg=None, *exif\_updated=None*, sidecar json written=None, sidecar json skipped=None, sidecar\_exiftool\_skipped=None, *car\_exiftool\_written=None*, sidecar xmp written=None, sidecar xmp skipped=None, missing=None, error=None, exiftool warning=None, exiftool error=None, *xattr written=None, xattr skipped=None*)

holds export results for export2

### all files()

return all filenames contained in results

class ScoreInfo (overall: float, curation: float, promotion: float, highlight\_visibility: float, behavioral: float, failure: float, harmonious\_color: float, immersiveness: float, interaction: float, interesting\_subject: float, intrusive\_object\_presence: float, lively\_color: float, low\_light: float, noise: float, pleasant\_camera\_tilt: float, pleasant\_composition: float, pleasant\_lighting: float, pleasant\_pattern: float, pleasant\_perspective: float, pleasant\_post\_processing: float, pleasant\_reflection: float, pleasant\_symmetry: float, sharply\_focused\_subject: float, tastefully\_blurred: float, well\_chosen\_subject: float, well\_framed\_subject: float, well\_timed\_shot: float)

Computed photo score info associated with a photo from the Photos library

behavioral: float
curation: float
failure: float

harmonious\_color: float

highlight\_visibility: float

immersiveness: float
interaction: float

interesting\_subject: float

intrusive\_object\_presence: float

lively\_color: float
low\_light: float

noise: float
overall: float

pleasant\_camera\_tilt: float
pleasant\_composition: float
pleasant\_lighting: float
pleasant\_pattern: float

pleasant\_perspective: float

pleasant\_post\_processing: float

pleasant\_reflection: float
pleasant\_symmetry: float

promotion: float

sharply\_focused\_subject: float tastefully\_blurred:

well\_chosen\_subject: well\_framed\_subject: float

well timed shot: float

### class SearchInfo(photo, normalized=False)

Info about search terms such as machine learning labels that Photos knows about a photo

float

### property activities

returns list of activity names

### property all

return all search info properties in a single list

#### asdict()

return dict of search info

### property bodies\_of\_water

returns list of body of water names

### property city

returns city/town

#### property country

returns country name

### property holidays

returns list of holiday names

### property labels

return list of labels associated with Photo

### property locality\_names

returns list of other locality names

### property media\_types

returns list of media types (photo, video, panorama, etc)

### property month

returns month name

### property neighborhoods

returns list of neighborhoods

### property place\_names

returns list of place names

### property season

returns season name

### property state

returns state name

#### property state\_abbreviation

returns state abbreviation

### property streets

returns list of street names

#### property venue\_types

returns list of venue types

### property venues

returns list of venue names

#### property year

returns year

#### property album info

list of AlbumInfo objects representing albums the photos is contained in

### property albums

list of albums picture is contained in

#### asdict()

return dict representation

### property burst

Returns True if photo is part of a Burst photo set, otherwise False

#### property burst photos

If photo is a burst photo, returns list of PhotoInfo objects that are part of the same burst photo set; otherwise returns empty list. self is not included in the returned list

#### property comments

Returns list of Comment objects for any comments on the photo (sorted by date)

### property date

image creation date as timezone aware datetime object

### property date\_modified

image modification date as timezone aware datetime object or None if no modification date set

### property date\_trashed

Date asset was placed in the trash or None

### property description

long / extended description of picture

### property exif\_info

Returns an ExifInfo object with the EXIF data for photo Note: the returned EXIF data is the data Photos stores in the database on import; ExifInfo does not provide access to the EXIF info in the actual image file Some or all of the fields may be None Only valid for Photos 5; on earlier database returns None

### property exiftool

Returns an ExifTool object for the photo requires that exiftool (https://exiftool.org/) be installed If exiftool not installed, logs warning and returns None If photo path is missing, returns None

export photo dest: must be valid destination path (or exception raised) filename: (optional): name of exported picture; if not provided, will use current filename

**NOTE**: if provided, user must ensure file extension (suffix) is correct. For example, if photo is .CR2 file, edited image may be .jpeg. If you provide an extension different than what the actual file is, export will print a warning but will export the photo using the incorrect file extension (unless use\_photos\_export is true, in which case export will use the extension provided by Photos

upon export; in this case, an incorrect extension is silently ignored). e.g. to get the extension of the edited photo, reference PhotoInfo.path\_edited

edited: (boolean, default=False); if True will export the edited version of the photo (or raise exception if no edited version)

live\_photo: (boolean, default=False); if True, will also export the associted .mov for live photos raw\_photo: (boolean, default=False); if True, will also export the associted RAW photo export\_as\_hardlink: (boolean, default=False); if True, will hardlink files instead of copying them overwrite: (boolean, default=False); if True will overwrite files if they alreay exist increment: (boolean, default=True); if True, will increment file name until a non-existant name is found

if overwrite=False and increment=False, export will fail if destination file already exists

sidecar\_json: if set will write a json sidecar with data in format readable by exiftool sidecar filename will be dest/filename.json; includes exiftool tag group names (e.g. exiftool -G -j)

**sidecar\_exiftool: if set will write a json sidecar with data in format readable by exiftool** sidecar filename will be dest/filename.json; does not include exiftool tag group names (e.g. *exiftool -j*)

sidecar\_xmp: if set will write an XMP sidecar with IPTC data sidecar filename will be dest/filename.xmp

use\_photos\_export: (boolean, default=False); if True will attempt to export photo via applescript interaction with Photos timeout: (int, default=120) timeout in seconds used with use\_photos\_export exiftool: (boolean, default = False); if True, will use exiftool to write metadata to export file returns list of full paths to the exported files use\_albums\_as\_keywords: (boolean, default = False); if True, will include album names in keywords when exporting metadata with exiftool or sidecar use\_persons\_as\_keywords: (boolean, default = False); if True, will include person names in keywords when exporting metadata with exiftool or sidecar keyword\_template: (list of strings); list of template strings that will be rendered as used as keywords description\_template: string; optional template string that will be rendered for use as photo description

Returns: list of photos exported

edited=False, export2 (dest, \*filename, live photo=False, raw\_photo=False, export\_as\_hardlink=False, overwrite=False, increment=True, sidecar=0, sideexiftool=False, car drop ext=False, use photos export=False, timeout=120, use albums as keywords=False, use persons as keywords=False, word template=None, description template=None, update=False, ignore signature=False, export db=None, fileutil=<class 'osxphotos.fileutil.FileUtil'>, dry run=False,touch\_file=False, convert\_to\_jpeg=False, jpeg\_quality=1.0, ignore\_date\_modified=False, use photokit=False, verbose=None, exiftool flags=None, merge exif keywords=False, merge exif persons=False, jpeg ext=None)

export photo, like export but with update and dry\_run options dest: must be valid destination path or exception raised filename: (optional): name of exported picture; if not provided, will use current filename

**NOTE**: if provided, user must ensure file extension (suffix) is correct. For example, if photo is .CR2 file, edited image may be .jpeg. If you provide an extension different than what the actual file is, will export the photo using the incorrect file extension (unless use\_photos\_export is true, in which case export will use the extension provided by Photos upon export. e.g. to get the extension of the edited photo, reference PhotoInfo.path\_edited

edited: (boolean, default=False); if True will export the edited version of the photo (or raise exception if no edited version)

live\_photo: (boolean, default=False); if True, will also export the associted .mov for live photos raw\_photo: (boolean, default=False); if True, will also export the associted RAW photo export\_as\_hardlink: (boolean, default=False); if True, will hardlink files instead of copying them overwrite: (boolean, default=False); if True will overwrite files if they alreay exist increment: (boolean, default=True); if True, will increment file name until a non-existant name is found

if overwrite=False and increment=False, export will fail if destination file already exists

sidecar: bit field: set to one or more of SIDECAR XMP, SIDECAR JSON, SIDECAR EXIFTOOL

SIDECAR\_JSON: if set will write a json sidecar with data in format readable by exiftool sidecar filename will be dest/filename.json; includes exiftool tag group names (e.g. exiftool -G -j)

SIDECAR\_EXIFTOOL: if set will write a json sidecar with data in format readable by exiftool sidecar filename will be dest/filename.json; does not include exiftool tag group names (e.g. exiftool -j)

**SIDECAR\_XMP:** if set will write an XMP sidecar with IPTC data sidecar filename will be dest/filename.xmp

sidecar\_drop\_ext: (boolean, default=False); if True, drops the photo's extension from sidecar filename (e.g. 'IMG\_1234.json' instead of 'IMG\_1234.JPG.json') use\_photos\_export: (boolean, default=False); if True will attempt to export photo via applescript interaction with Photos timeout: (int, default=120) timeout in seconds used with use\_photos\_export exiftool: (boolean, default = False); if True, will use exiftool to write metadata to export file use\_albums\_as\_keywords: (boolean, default = False); if True, will include album names in keywords when exporting metadata with exiftool or sidecar use\_persons\_as\_keywords: (boolean, default = False); if True, will include person names in keywords when exporting metadata with exiftool or sidecar keyword\_template: (list of strings); list of template strings that will be rendered as used as keywords description\_template: string; optional template string that will be rendered for use as photo description update: (boolean, default=False); if True export will run in update mode, that is, it will

not export the photo if the current version already exists in the destination

ignore\_signature: (bool, default=False), ignore file signature when used with update (look only at file-name) export\_db: (ExportDB\_ABC); instance of a class that conforms to ExportDB\_ABC with methods

for getting/setting data related to exported files to compare update state

fileutil: (FileUtilABC); class that conforms to FileUtilABC with various file utilities dry\_run: (boolean, default=False); set to True to run in "dry run" mode touch\_file: (boolean, default=False); if True, sets file's modification time upon photo date convert\_to\_jpeg: boolean; if True, converts non-jpeg images to jpeg jpeg\_quality: float in range  $0.0 \le \text{jpeg_quality} \le 1.0$ . A value of 1.0 specifies use best quality, a value of 0.0 specifies use maximum compression. ignore\_date\_modified: for use with sidecar and exiftool; if True, sets EXIF:ModifyDate to EXIF:DateTimeOriginal even if date\_modified is set verbose: optional callable function to use for printing verbose text during processing; if None (default), does not print output. exiftool\_flags: optional list of flags to pass to exiftool when using exiftool option, e.g ["-m", "-F"] merge\_exif\_keywords: boolean; if True, merged keywords found in file's exif data (requires exiftool) merge\_exif\_persons: boolean; if True, merged persons found in file's exif data (requires exiftool) jpeg\_ext: if set, will use this value for extension on jpegs converted to jpeg with convert\_to\_jpeg; if not set, uses jpeg; do not include the leading "."

**Returns: ExportResults class** ExportResults has attributes: "exported", "new", "updated", "skipped", "exif\_updated", "touched", "converted\_to\_jpeg", "sidecar\_json\_written", "sidecar\_json\_skipped", "sidecar\_exiftool\_written", "sidecar\_exiftool\_skipped", "sidecar\_xmp\_written", "sidecar\_xmp\_skipped", "missing", "error", "error\_str", "exiftool\_warning", "exiftool\_error",

Note: to use dry run mode, you must set dry\_run=True and also pass in memory version of export\_db, and no-op fileutil (e.g. ExportDBInMemory and FileUtilNoOp)

#### property external\_edit

Returns True if picture was edited outside of Photos using external editor

### property face\_info

list of FaceInfo objects for faces in picture

### property favorite

True if picture is marked as favorite

### property filename

filename of the picture

### property has\_raw

returns True if photo has an associated raw image (that is, it's a RAW+JPEG pair), otherwise False

#### property hasadjustments

True if picture has adjustments / edits

### property hdr

Returns True if photo is an HDR photo, otherwise False

#### property height

returns height of the current photo version in pixels

### property hidden

True if picture is hidden

#### property import\_info

ImportInfo object representing import session for the photo or None if no import session

### property incloud

Returns True if photo is cloud asset and is synched to cloud False if photo is cloud asset and not yet synched to cloud None if photo is not cloud asset

### property intrash

True if picture is in trash ('Recently Deleted' folder)

### property iscloudasset

Returns True if photo is a cloud asset (in an iCloud library), otherwise False

#### property ismissing

returns true if photo is missing from disk (which means it's not been downloaded from iCloud) NOTE: the photos.db database uses an asynchrounous write-ahead log so changes in Photos

do not immediately get written to disk. In particular, I've noticed that downloading an image from the cloud does not force the database to be updated until something else e.g. an edit, keyword, etc. occurs forcing a database synch The exact process / timing is a mystery to be but be aware that if some photos were recently downloaded from cloud to local storate their status in the database might still show isMissing = 1

### property ismovie

Returns True if file is a movie, otherwise False

### property isphoto

Returns True if file is an image, otherwise False

#### property israw

returns True if photo is a raw image. For images with an associated RAW+JPEG pair, see has\_raw

### property isreference

Returns True if photo is a reference (not copied to the Photos library), otherwise False

### json()

Return JSON representation

### property keywords

list of keywords for picture

### property labels

returns list of labels applied to photo by Photos image categorization only valid on Photos 5, on older libraries returns empty list

#### property labels\_normalized

returns normalized list of labels applied to photo by Photos image categorization only valid on Photos 5, on older libraries returns empty list

### property likes

Returns list of Like objects for any likes on the photo (sorted by date)

### property live\_photo

Returns True if photo is a live photo, otherwise False

#### property location

returns (latitude, longitude) as float in degrees or None

### property orientation

returns EXIF orientation of the current photo version as int

#### property original\_filename

original filename of the picture Photos 5 mangles filenames upon import

#### property original filesize

returns filesize of original photo in bytes as int

### property original\_height

returns height of the original photo version in pixels

### property original\_orientation

returns EXIF orientation of the original photo version as int

### property original\_width

returns width of the original photo version in pixels

### property panorama

Returns True if photo is a panorama, otherwise False

### property path

absolute path on disk of the original picture

#### property path edited

absolute path on disk of the edited picture

#### property path\_live\_photo

Returns path to the associated video file for a live photo If photo is not a live photo, returns None If photo is missing, returns None

### property path\_raw

absolute path of associated RAW image or None if there is not one

### property person\_info

list of PersonInfo objects for person in picture

### property persons

list of persons in picture

#### property place

Returns PlaceInfo object containing reverse geolocation info

### property portrait

Returns True if photo is a portrait, otherwise False

### property raw\_original

returns True if associated raw image and the raw image is selected in Photos via "Use RAW as Original" otherwise returns False

render\_template (template\_str, none\_str='\_', path\_sep=None, expand\_inplace=False, in-place\_sep=None, filename=False, dirname=False, strip=False)

Renders a template string for PhotoInfo instance using PhotoTemplate

#### **Parameters**

- template\_str a template string with fields to render
- none\_str a str to use if template field renders to None, default is "\_".
- path\_sep a single character str to use as path separator when joining fields like folder\_album; if not provided, defaults to os.path.sep
- **expand\_inplace** expand multi-valued substitutions in-place as a single string instead of returning individual strings
- inplace\_sep optional string to use as separator between multi-valued keywords with expand inplace; default is ','
- filename if True, template output will be sanitized to produce valid file name
- dirname if True, template output will be sanitized to produce valid directory name
- strip if True, strips leading/trailing white space from resulting template

Returns tuple of list of rendered strings and list of unmatched template values

**Return type** ([rendered\_strings], [unmatched])

### property score

Computed score information for a photo

Returns ScoreInfo instance

#### property screenshot

Returns True if photo is an HDR photo, otherwise False

### property search\_info

returns SearchInfo object for photo only valid on Photos 5, on older libraries, returns None

### property search\_info\_normalized

returns SearchInfo object for photo that produces normalized results only valid on Photos 5, on older libraries, returns None

#### property selfie

Returns True if photo is a selfie (front facing camera), otherwise False

### property shared

returns True if photos is in a shared iCloud album otherwise false Only valid on Photos 5; returns None on older versions

### property slow\_mo

Returns True if photo is a slow motion video, otherwise False

### property time\_lapse

Returns True if photo is a time lapse video, otherwise False

### property title

name / title of picture

### property tzoffset

timezone offset from UTC in seconds

### property uti

Returns Uniform Type Identifier (UTI) for the image for example: public.jpeg or com.apple.quicktime-movie

### property uti\_edited

Returns Uniform Type Identifier (UTI) for the edited image if the photo has been edited, otherwise None; for example: public.jpeg

### property uti\_original

Returns Uniform Type Identifier (UTI) for the original image for example: public.jpeg or com.apple.quicktime-movie

### property uti\_raw

Returns Uniform Type Identifier (UTI) for the RAW image if there is one for example: com.canon.cr2-raw-image Returns None if no associated RAW image

### property uuid

UUID of picture

### property visible

True if picture is visble

### property width

returns width of the current photo version in pixels

# **CHAPTER**

# **THREE**

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