

Full credit is given to the above companies including the OS that this PDF file was generated!

# Red Hat Enterprise Linux Release 9.2 Manual Pages on 'exiv2.1' command

## \$ man exiv2.1

EXIV2(1) General Commands Manual EXIV2(1)

NAME

exiv2 - Image metadata manipulation tool

**SYNOPSIS** 

exiv2 [options] [action] file ...

## **DESCRIPTION**

exiv2 is a program to read and write Exif, IPTC, XMP metadata and image comments and can read many vendor makernote tags. The program option? ally converts between Exif tags, XMP properties and IPTC datasets as recommended by the Exif Standard, the IPTC Standard, the XMP specifica? tion and Metadata Working Group guidelines.

The following image formats are supported:

Type Exif IPTC XMP Image Comments ICC Profile

ARW Read Read - -

AVIF Read Read - -

BMP - - - - -

CR2 Read/Write Read/Write - Read/Write

CR3 Read Read - Read

CRW Read/Write - - Read/Write -

DNG Read/Write Read/Write - Read/Write

EPS - - Read/Write - -

EXV Read/Write Read/Write Read/Write Read/Write

GIF - - - -

HEIC Read Read - -

HEIF Read Read - -

JP2 Read/Write Read/Write - Read/Write

JPEG Read/Write Read/Write Read/Write Read/Write

MRW Read Read - -

NEF Read/Write Read/Write - Read/Write

ORF Read/Write Read/Write - -

PEF Read/Write Read/Write - Read/Write

PGF Read/Write Read/Write Read/Write Read/Write

PNG Read/Write Read/Write Read/Write Read/Write Read/Write

PSD Read/Write Read/Write - -

RAF Read Read - -

RW2 Read Read - -

SR2 Read Read - -

SRW Read/Write Read/Write - -

TGA - - - -

TIFF Read/Write Read/Write - Read/Write

WEBP Read/Write - Read/Write - Read/Write

XMP - - Read/Write - -

- ? Support for GIF, TGA and BMP images is minimal: the image format is recognized, a MIME type assigned to it and the height and width of the image are determined.
- ? Reading other TIFF-like RAW image formats, which are not listed in the table, may also work.

## **ACTIONS**

The action argument is only required if it is not clear from the op? tions which action is implied.

pr | print

Print image metadata. This is the default action, i.e., the com? mand exiv2 image.jpg will print a summary of the image Exif metadata.

ex | extract Page 2/18

Extract metadata to \*.exv, XMP sidecar (\*.xmp) and thumbnail im? age files. Modification commands can be applied on-the-fly.

## in | insert

Insert metadata from corresponding \*.exv, XMP sidecar (\*.xmp) and thumbnail files. Use option -S .suf to change the suffix of the input files. Since files of any supported format can be used as input files, this command can be used to copy the metadata between files of different formats. Modification commands can be applied on-the-fly.

## rm | delete

Delete image metadata from the files.

## ad | adjust

Adjust Exif timestamps by the given time. Requires at least one of the options -a time, -Y yrs, -O mon or -D day.

# mo | modify

Apply commands to modify (add, set, delete) the Exif, IPTC and XMP metadata of image files. Requires option -c, -m or -M.

### mv | rename

Rename files and/or set file timestamps according to the Exif create timestamp. Uses the value of tag Exif.Photo.DateTimeOrig? inal or, if not present, Exif.Image.DateTime to determine the timestamp. The filename format can be set with -r fmt, timestamp options are -t and -T.

# fi | fixiso

Copy the ISO setting from one of the proprietary Nikon or Canon makernote ISO tags to the regular Exif ISO tag, Exif.Photo.ISOSpeedRatings. Does not overwrite an existing stan? dard Exif ISO tag.

## fc | fixcom

Fix the character encoding of Exif Unicode user comments. De? codes the comment using the auto-detected or specified character encoding and writes it back in UCS-2. Use option -n to specify the current encoding of the comment if necessary.

#### COMMAND SUMMARY

-Y +-n

--years

```
exiv2 [ opt [arg] ]+ [ act ] file ...
option [arg] long option description
                       Modify time stamps. [+|-]HH[:MM[:SS[.mmm]]]
-a tim
             --adjust
-b
           --binary
                      This option is obsolete and should not be used. Reserved for test suite (with option -pC)
-c txt
            --comment JPEG comment string to set in the image ('modify' action). ...
-d tgt
            --delete
                       Delete target(s) for the 'delete' action. ...
-D +-n
             --days
                        Time adjustment by a positive or negative number of days ...
            --extract
                       Extract target(s) for the 'extract' action.
-e tgt
-f
           --force
                     Do not prompt before overwriting existing files ...
-F
            --Force
                       Do not prompt before renaming files (Force rename) ...
                        Only output info for this Exiv2 key
-g key
             --grep
-h
           --help
                      Display help and exit.
-i tgt
           --insert
                      Insert target(s) for the 'insert' action. ...
-k
           --keep
                      Preserve file timestamps when updating files
-K key
                        Report key. Similar to -g (grep) however key must match exactly.
             --key
-l dir
           --location Location (directory) for files to be inserted or extracted.
-m file
            --modify
                        read commands from cmd-file
-M cmd
              --Modify
                          Command line for the 'modify' action. ...
             --encode
                         Charset to decode Exif Unicode user comments. See: man 3 iconv_open
-n enc
-O +-n
             --months
                          Time adjustment by a positive or negative number of months, ...
-p mod
              --print
                        Print report (common reports)
-P flg
                      Print report (fine grained control)
            --Print
           --quiet
                      Silence warnings and error messages from the Exiv2 library ...
-q
-Q Ivl
            --log
                      Set the log-level to 'd'(ebug), 'i'(nfo), 'w'(arning), 'e'(rror)
-r fmt
            --rename
                         Filename format for the 'rename' action. ...
-S suf
                       Use suffix .suf for source files for insert command.
             --suffix
-t
           --timestamp Set the file timestamp according to the Exif create timestamp ...
-T
            --Timestamp Only set the file timestamp according to Exif create timestamp ...
-u
           --unknown Show unknown tags ...
           --verbose
                       verbose
-V
-V
            --version
                       Show the program version and exit.
```

Time adjustment by a positive or negative number of years ...

act pr | ex | in | rm | ad | mo | mv | fi | fc

print, extract, insert, delete, adjust, modify, rename, fixiso, fixcom

cmd See "Commands" below.

flg E|I|X|x|g|k|I|n|y|c|s|v|t|h

Exif, IPTC, XMP, num, grp, key, label, name, type, count, size, vanilla, translated, hex

fmt Default format is %Y%m%d\_%H%M%S.

lvl d|i|i|w|e

debug, info, warning, error

mod s|a|e|t|v|h|i|x|c|p|i|C|R|S|X

summary, all, exif, translated, vanilla, hex, iptc, xmp, comment, preview,

ICC Profile, Recursive Structure, Simple Structure, raw XMP

tgt a|c|e|i|p|t|x|C|X|XX|-

all, comment, exif, iptc, preview, thumb, xmp, ICC Profile, SideCar, RawXMP, stdin/out

## **OPTIONS**

- -h Display help and exit.
- -V Show the program version and exit.

When -V is combined with -v (Verbose version), build information

is printed to standard output along with a list of shared li?

braries which have been loaded into memory. Verbose version is

supported on Windows (MSVC, Cygwin and MinGW builds), macOS and

Linux and is provided for test and debugging.

- -v Be verbose during the program run.
- -q Silence warnings and error messages from the Exiv2 library dur?

ing the program run (quiet). Note that options -v and -q can be

used at the same time.

-Q IvI Set the log-level to 'd'(ebug), 'i'(nfo), 'w'(arning), 'e'(rror)

or 'm'(ute). The default log-level is 'w'. -Qm is equivalent to

- -q. All log messages are written to standard error.
- -u Show unknown tags (default is to suppress tags which don't have a name).
- -g key Only keys which match the given key (grep).

Multiple -g options can be used to filter info to less keys. Ex?

ample: exiv2 -v -V -g webready -g time. The default exiv2 com?

mand prints a "summary report" which is quite short. When you use -g without a -pmod option, you do not get a summary report and in effect you get -g pattern -pa image ...

\$ bin/exiv2 -g Date http://clanmills.com/Stonehenge.jpg

Exif.Photo.DateTimeOriginal Ascii 20 2015:07:16 15:38:54

Exif.Photo.DateTimeDigitized Ascii 20 2015:07:16 15:38:54

Exif.NikonWt.DateDisplayFormat Byte 1 Y/M/D

Exif.GPSInfo.GPSDateStamp Ascii 11 2015:07:16

Xmp.xmp.ModifyDate XmpText 25 2015-07-16T20:25:28+01:00

You may use -pmod filters to further filter output. For exam? ple:

\$ bin/exiv2 -px -g Date http://clanmills.com/Stonehenge.jpg

Xmp.xmp.ModifyDate XmpText 25 2015-07-16T20:25:28+01:00

The option -g (--grep) applies to keys and not values.

The key may finish with the optional modifier /i to indicate case insensitive.

-K key Only report data for given key.

Multiple -K options can be used to report more than a single key.

\$ exiv2 -K Exif.Photo.DateTimeDigitized -K Exif.Photo.DateTimeOriginal -pt R.jpg

Exif.Photo.DateTimeOriginal Ascii 20 2011:09:18 16:25:48

Exif.Photo.DateTimeDigitized Ascii 20 2011:09:18 16:25:48

- -n enc Charset to use to decode Exif Unicode user comments. enc is a name understood by iconv\_open(3), e.g., 'UTF-8'.
- -k Preserve file timestamps when updating files (keep). Can be used with all options which update files. The flag is ignored by read-only options.
- -t Set the file timestamp according to the Exif create timestamp in addition to renaming the file (overrides -k). This option is only used with the 'rename' action. See Exif DateTime below for additional information.
- -T Only set the file timestamp according to the Exif create time?

stamp, do not rename the file (overrides -k). This option is only used with the 'rename' action. Note: On Windows you may have to set the TZ environment variable for this option to work correctly. See Exif DateTime below for additional information.

-f,-F These options are used by the commands 'rename' and 'extract' to determine the file overwrite policy. These options are usually combined with -v/--verbose to provide additional status output. The options --force and --Force apply to the 'rename' command. The 'extract' command treats --force and --Force as permission to overwrite.

The default behaviour is to prompt the user.

-f = Do not prompt before overwriting existing files.

-F = Do not prompt before renaming files. Appends '\_1' ('\_2',

...) to the name of the new file. For example:

\$ curl --silent -O http://clanmills.com/Stonehenge.jpg

\$ exiv2 --verbose --Force rename Stonehenge.jpg

File 1/1: Stonehenge.jpg

Renaming file to ./20150716 153854.jpg

\$ curl --silent -O http://clanmills.com/Stonehenge.jpg

\$ exiv2 --verbose --Force rename Stonehenge.jpg

File 1/1: Stonehenge.jpg

Renaming file to ./20150716\_153854\_1.jpg

The 'rename' command will only overwrite files when the option --force is used. The option --Force is provided to avoid unin?

tentional loss of valuable image files.

The 'extract' command will overwrite files when either --force or --Force is used. Overwriting extracted files will not cause the loss of image files.

-r fmt Filename format for the 'rename' action. The format string fol?

lows strftime(3) and supports the following keywords:

:basename: original filename without extension

:dirname: name of the directory holding the original file

:parentname: name of parent directory

Default filename format is %Y%m%d %H%M%S.

#### -a time

Time adjustment in the format [-]HH[:MM[:SS]]. This option is only used with the 'adjust' action. Examples: 1 adds one hour, 1:01 adds one hour and one minute, -0:00:30 subtracts 30 sec? onds. See Exif DateTime below for additional information.

- -Y yrs Time adjustment by a positive or negative number of years, for the 'adjust' action.
- O mon Time adjustment by a positive or negative number of months, for the 'adjust' action.
- -D day Time adjustment by a positive or negative number of days, for the 'adjust' action.

#### -p mode

Print mode for the 'print' action. Possible modes are:

s: print a summary of the Exif metadata (the default)

a: print Exif, IPTC and XMP metadata (shortcut for -Pkyct)

e : print Exif metadata (shortcut for -PEkycv)

t: interpreted (translated) Exif tags (-PEkyct)

v : plain Exif tag values (-PExgnycv)

h: hexdump of the Exif data (-PExgnycsh)

i: IPTC datasets (-Plkyct)

x : XMP properties (-PXkyct)

c: JPEG comment

p: list available image previews, sorted by preview image size in pixels

C: print image ICC Profile (jpg, png, tiff, webp, cr2, jp2 only)

R: print image structure recursively (jpg, png, tiff, webp, cr2, jp2 only)

S: print image structure information (jpg, png, tiff, webp, cr2, jp2 only)

X : print "raw" XMP (jpg, png, tiff, webp, cr2, jp2 only)

## -P flgs

Print flags for fine control of the tag list ('print' action).

Allows control of the type of metadata as well as data columns included in the print output. Valid flags are:

E: include Exif tags in the list

I: IPTC datasets

X: XMP properties

x : print a column with the tag number

g: group name

k: key

I: tag label

n: tag name

y:type

c: number of components (count)

s: size in bytes

v : plain data value (vanilla values)

V : plain data value AND the word 'set ' (for use with exiv2 -m-)

t: interpreted (translated) human readable data

h: hexdump of the data

-d tgt Delete target(s) for the 'delete' action. Possible targets are:

a: all supported metadata (the default)

e: Exif section

t: Exif thumbnail only

i: IPTC data

x: XMP packet

c: JPEG comment

C: ICC Profile

I : All IPTC data

-i tgt Insert target(s) for the 'insert' action. Possible targets are the same as those for the -d option, plus an optional modifier:

X: Insert metadata from an XMP sidecar file <file>.xmp. The re? maining insert targets determine what metadata to insert from the sidecar file. Possible are Exif, IPTC and XMP and the de? fault is all of these. Note that the inserted XMP properties in? clude those converted to Exif and IPTC.

XX: Insert "raw" XMP metadata from a sidecar (see option -pX)

-: Read from stdin. This option is intended for "filter" oper?

ations such as: Page 9/18

\$ exiv2 -e{tgt}- filename | xmllint .... | exiv2 -i{tgt}- file?

Only JPEG thumbnails can be inserted (not TIFF thumbnails), and must be named file-thumb.jpg.

-e tgt Extract target(s) for the 'extract' action. Possible targets are the same as those for the -d option, plus a target to extract preview images and a modifier to generate an XMP sidecar file: p[<n>[,<m> ...]] : Extract preview images. The optional comma separated list of preview image numbers is used to determine which preview images to extract. The available preview images and their numbers are displayed with the 'print' option -pp.

C: Extract embedded ICC profile to <file>.icc

X: Extract metadata to an XMP sidecar file <file>.xmp. The re? maining extract targets determine what metadata to extract to the sidecar file. Possible are Exif, IPTC and XMP and the de? fault is all of these.

XX: Extract "raw" XMP metadata to a sidecar (see -pX)

You may not use modify commands with the -eXX option and only

XMP is written to the sidecar.

- Output to stdout (see -i tgt for an example of this feature)
- -c txt JPEG comment string to set in the image ('modify' action). This option can also be used with the 'extract' and 'insert' actions to modify metadata on-the-fly.

#### -m file

Command file for the 'modify' action. This option can also be used with the 'extract' and 'insert' actions to modify metadata on-the-fly. -m- represents standard-input.

-M cmd Command line for the 'modify' action. This option can also be used with the 'extract' and 'insert' actions to modify metadata on-the-fly. The format for the commands is the same as that of the lines of a command file.

-I dir Location (directory) for files to be inserted or extracted.

-S .suf Page 10/18

Use suffix .suf for source files in 'insert' action.

## **COMMANDS**

Commands for the 'modify' action can be read from a command file, e.g.,

\$ exiv2 -m cmd.txt image.jpg

or given on the command line, as in

\$ exiv2 -M"add Iptc.Application2.Credit String Mr. Smith" image.jpg

Note the quotes. Multiple -m and -M options can be combined, and a non-

standard XMP namespace registered.

\$ exiv2 -M"reg myprefix http://ns.myprefix.me/" -M"add Xmp.myprefix.Whom Mr. Smith" -M"set Exif.Image.Artist Mr.

# Smith" image.jpg

When writing Exif, IPTC and XMP metadata, exiv2 enforces only a correct metadata structure. It is possible to write tags with types and values different from those specified in the standards, duplicate Exif tags, undefined tags, or incomplete metadata. While exiv2 is able to read all metadata that it can write, other programs may have difficulties with images that contain non standard-conforming metadata.

# Command format

The format of a command is

set | add | del key [[type] value]

set Set the value of an existing tag with a matching key or add the tag.

add Add a tag (unless key is a non-repeatable IPTC key; nothing pre? vents you from adding duplicate Exif tags).

del Delete all occurrences of a tag (requires only a key).

key Exiv2 Exif, IPTC or XMP key.

type Exif keys: Byte | Ascii | Short | Long | Rational | Undefined |

SShort | SLong | SRational | Comment

IPTC keys: String | Date | Time | Short | Undefined

XMP keys: XmpAlt | XmpBag | XmpSeq | LangAlt

A default type is used if none is explicitly given. The default

is determined based on key.

value The remaining text on the line is the value. It can optionally

be enclosed in single quotes ('value') or double quotes

("value").

The value is optional. Not providing any value is equivalent to an empty value ("") and is mainly useful to create an XMP array property, e.g., a bag.

The format of Exif Comment values include an optional charset specification at the beginning. Comments are used by the tags

Exif.Photo.UserComment, Exif.GPSInfo.GPSProcessingMethod and

Exif.GPSInfo.GPSAreaInformation. Comments are stored as Unde?

fined tags with an 8 byte encoding definition follow by the en?

coded data. The charset is specified as follows:

[charset=Ascii|Jis|Unicode|Undefined] comment

charset=Undefined is the default

\$ exiv2 -M'set Exif.Photo.UserComment charset=Ascii My photo' x.jpg

\$ exiv2 -pa --grep UserComment x.jpg

Exif.Photo.UserComment Undefined 16 My photo

\$ exiv2 -pv --grep UserComment x.jpg

0x9286 Photo UserComment Undefined 16 charset=Ascii My photo

\$ exiv2 -M'set Exif.Photo.UserComment charset=Unicode \u0052\u006f\u0062\u0069\u0069\u006e' x.jpg

\$ exiv2 -pa --grep UserComment x.jpg

Exif.Photo.UserComment Undefined 18 Robin

\$ exiv2 -pv --grep UserComment x.jpg

0x9286 Photo UserComment Undefined 18 charset=Unicode Robin

\$ exiv2 -M'set Exif.GPSInfo.GPSProcessingMethod HYBRID-FIX' x.jpg

\$ exiv2 -pa --grep ProcessingMethod x.jpg

Exif.GPSInfo.GPSProcessingMethod Undefined 18 HYBRID-FIX

\$ exiv2 -pv --grep ProcessingMethod x.jpg

0x001b GPSInfo GPSProcessingMethod Undefined 18 HYBRID-FIX

The format for an IPTC Date value is: YYYY-MM-DD (year, month,

day)

The format for an IPTC Time value is: HH:MM:SS (hours, minutes, seconds) and may optionally be followed by: -HH:MM or +HH:MM (hours, minutes ahead/behind UTC)

The format of Rational (and SRational) is one of: integer | in?

teger/integer | Fnumber | number

Rational Examples:

\$ exiv2 "-Mset Exif.Photo.MaxApertureValue 557429/62500" X.jpg

\$ exiv2 "-Mset Exif.Photo.MaxApertureValue F5.6" X.jpg

The Rational format Fnumber is for the convenience of setting

aperture values. Aperture values are stored in Exif is an APEX

value which can be evaluated by the expression:

apex-value = log(Fnumber) \* 2.0 / log(2.0)

number =  $\exp(\text{apex-value * log(2.0) / 2.0})$ 

The Rational format Fnumber is valid for any Rational, even when

the key is not an Aperture. More information about APEX value

is available from: http://en.wikipedia.org/wiki/APEX\_system

The format of XMP LangAlt values includes an optional language

qualifier:

lang="language-code" text

The double quotes around the language-code are optional. If no

languge qualifier is supplied, then the value of "x-default" is

used. More information on the language format can be found at:

https://www.ietf.org/rfc/rfc3066.txt

\$ exiv2 -M'set Xmp.dc.title lang="de-DE" Euros' X.jpg

\$ exiv2 -M'set Xmp.dc.title lang="en-GB" Pounds' X.jpg

\$ exiv2 -M'set Xmp.dc.title lang="en-US" In God We Trust' X.jpg

\$ exiv2 -M'set Xmp.dc.title lang=fr-FR Euros' X.jpg

\$ exiv2 -M'set Xmp.dc.title lang=jp Yen' X.jpg

\$ exiv2 -M'set Xmp.dc.title All others pay cash' X.jpg

To remove a language specification, set the value to " (empty

string)

\$ exiv2 -M'set Xmp.dc.title lang="en-US" X.jpg

To remove all language specifications, delete the key:

\$ exiv2 -M'del Xmp.dc.title' X.jpg

To register additional XMP namespaces, combine the command with:

reg prefix namespace

Command file format Page 13/18

Empty lines and lines starting with # in a command file are ignored (comments). Remaining lines are commands as described above.

#### **EXIF TAGNAMES AND VALUES**

Exiv2 displays metadata tags and values.

The tag is a triplet of Family.Group.Tagname. The following groups are defined for the family Exif:

**GPSInfo** Canon Fujifilm NikonMe OlympusFe7 SonyMisc2b Image CanonCf NikonPc OlympusFe9 SonyMisc3c Image2 CanonCs Nikon1 NikonPreview OlympusFi SonyMinolta Image3 CanonFi Nikon2 NikonSi01xx Olympuslp SonySInfo1 lop CanonPa Nikon3 NikonSi02xx OlympusRd MakerNote CanonPi **NikonAFT** NikonSiD300a OlympusRd2 Samsung2 MpfInfo NikonAf NikonSiD300b OlympusRi SamsungPictureWizard CanonPr Photo NikonAf2 SamsungPreview CanonSi NikonSiD40 SubImage1 CanonTi NikonAf22 NikonSiD80 Sigma SubImage2 NikonCb1 NikonVr SubImage3 NikonCb2 Sony1 Casio NikonWt SubImage4 NikonCb2a Sony1Cs Casio2 SubImage5 NikonCb3 Olympus Sony1Cs2 SubImage6 Minolta NikonCb4 Olympus2 Sony1MltCs7D SubImage7 MinoltaCs5D NikonFi OlympusCs Sony1MltCsA100 OlympusEq SubImage8 NikonFI1 MinoltaCs7D Sony1MltCsNew SubImage9 MinoltaCsNew NikonFl2 OlympusFe1 Sony1MltCsOld SubThumb1 MinoltaCsOld NikonFl3 OlympusFe2 Sony2 Thumbnail Nikonli OlympusFe3 Sony2Cs Panasonic NikonLd1 OlympusFe4 Sony2Cs2 Pentax PanasonicRaw NikonLd2 OlympusFe5 Sony2Fp PentaxDng NikonLd3 OlympusFe6 SonyMisc1 Exiv2 supports Exif 2.2 Standard Tags. Exiv2 also supports reading and writing manufacturer's MakerNote. The information in Exif.Photo.Maker? Note is encoded as manufacturer's sub-records. For example, CanonCs

are Camera Settings, NikonAf are Nikon Auto Focus records, NikonCb are

Nikon Color Balance Records. Every tag is defined by a unique tagld

(16 bit integer) which is unique within a Group.

You can query Exiv2 groups and tags with the sample program taglist which is documented in README-SAMPLES.md

Exif Metadata values are defined in the Exif Standard. All data is an array of data elements. The Count defines the number elements in the array. All elements in an array have the same type.

Type Explanation

1 BYTE An 8-bit unsigned integer.

2 ASCII 7-bit ASCII. NUL terminated.

3 SHORT A 16-bit (2-byte) unsigned integer.

4 LONG A 32-bit (4-byte) unsigned integer

5 RATIONAL Two LONGs. Numerator, denominator.

7 UNDEFINED An 8-bit byte.

8 SSHORT A 16-bit (2-byte) signed integer.

9 SLONG A 32-bit (4-byte) signed integer.

10 SRATIONAL Two SLONGs. Numerator, denominator.

The printing flag t = translated and is intended for human use.

Scripts should never use translated values as they are localised and the format may change as Exiv2 evolves. The printing flag v reports the values recorded in the metadata and should be used by scripts.

## Exif DateTime

An Exif DateTime string is stored as 20 ascii bytes (including trailing nul) in the format:

YYYY:MM:DD HH:MM:SS

The exiv2 command-line program options -t and -T will accept files in which the Date has been incorrectly stored as YYYY-MM-DD. The option -a enables the user to adjust the DateTime in the file and applies the YYYY:MM:DD HH:MM:SS standard.

## **CONFIGURATION FILE**

Exiv2 can read an optional configuration file ~/.exiv2 on Unix systems and %USERPROFILE%\exiv2.ini on Windows (using a Visual Studio build). Cygwin and MinGW/msys2 follow the unix convention and use ~/.exiv2 You can determine the location of the configuration file with the command:

\$ exiv2 --verbose --version --grep config\_path

exiv2 0.27.0.1

config\_path=/Users/rmills/.exiv2

The purpose of the configuration file is to define your own lenses for recognition by Exiv2. The configuration file is in Windows .ini format and has sections for each of the major camera manufactures canon,nikon,pentax,minolta,olympus and sony. The lens metadata is stored as a integer called the lensID. You can change the lens name associated with any lensID.

\$ cat ~/.exiv2

[nikon]

146=Robin's Sigma Lens <--- The name of your lens

You obtain the lensID for your camera with the command:

\$ exiv2 -pv --grep lens/i http://clanmills.com/Stonehenge.jpg

0x0083 Nikon3 LensType Byte 1 14

0x0084 Nikon3 Lens Rational 4 180/10 2500/10 35/10 63/10

0x008b Nikon3 LensFStops Undefined 4 55 1 12 0

0x000c NikonLd3 LensIDNumber Byte 1 146 <--- This number

0x000d NikonLd3 LensFStops Byte 1 55

# **EXAMPLES**

\$ exiv2 \*.jpg

Prints a summary of the Exif information for all JPEG files in the di? rectory. The summary report is rather brief and presentation does not use the Family.Group.Tag convention.

If you use --grep pattern, the default becomes -pa. See -g/grep above.

\$ exiv2 -g Date http://clanmills.com/Stonehenge.jpg

\$ exiv2 -pi image.jpg

Prints the IPTC metadata of the image.

\$ exiv2 rename img\_1234.jpg

Renames img\_1234.jpg (taken on 13-Nov-05 at 22:58:31) to 20051113\_225831.jpg

\$ exiv2 -r'basename\_%Y%m' rename img\_1234.jpg

Renames img\_1234.jpg to img\_1234\_200511.jpg

\$ exiv2 -et img1.jpg img2.jpg

Extracts the Exif thumbnails from the two files into img1-thumb.jpg and img2-thumb.jpg.

\$ exiv2 -it img1.jpg img2.jpg

Inserts (copies) metadata from img1.exv to img1.jpg and from img2.exv to img2.jpg.

\$ exiv2 -ep1,2 image.jpg

Extracts previews 1 and 2 from the image to the files image-pre? view1.jpg and image-preview2.jpg.

\$ exiv2 -eiX image.jpg

Extracts IPTC datasets into an XMP sidecar file image.xmp and in the process converts them to "IPTC Core" XMP schema.

\$ exiv2 -iixX image.jpg

Inserts IPTC and XMP metadata from an XMP sidecar file image.xmp into image.jpg. The resulting IPTC datasets are converted from the "IPTC Core" XMP schema properties in the sidecar file to the older IPTC IIM4 format. The inserted XMP properties include those in the "IPTC Core" XMP schema.

\$ exiv2 -M"set Exif.Photo.UserComment charset=Ascii New Exif comment" image.jpg
Sets the Exif comment to an ASCII string.

\$ exiv2 -M"set Exif.GPSInfo.GPSLatitude 4/1 15/1 33/1" \ -M"set Exif.GPSInfo.GPSLatitudeRef N" image.jpg

Sets the latitude to 4 degrees, 15 minutes and 33 seconds north. The

Exif standard stipulates that the GPSLatitude tag consists of three Ra?

tional numbers for the degrees, minutes and seconds of the latitude and

GPSLatitudeRef contains either 'N' or 'S' for north or south latitude

respectively.

\$ exiv2 -I/tmp -S.CRW insert /data/\*.JPG

Copy all metadata from CRW files in the /tmp directory to JPG files with corresponding basenames in the /data directory. Note that this copies metadata as is, without any modifications to adapt it to the re? quirements of the target format. Some tags copied like this may not make sense in the target image.

SEE ALSO Page 17/18

https://exiv2.org/sample.html#modify

Sample command files.

https://exiv2.org/metadata.html

Taglists with key and default type values.

# **AUTHORS**

exiv2 was written by Andreas Huggel and others.

The Exiv2 project web site is https://exiv2.org.

The code is hosted on GitHub at https://github.com/exiv2/exiv2

August 10, 2021

EXIV2(1)