# PhotoPrism® Digital Asset Management

PhotoPrism® is an Al-powered app for browsing, organizing & sharing your photo collection. It makes use of the latest technologies to tag and find pictures automatically without getting in your way. You can run it on your local computer, a private server, or in the cloud.

### **Feature Overview**

Browse all your photos and videos without worrying about RAW conversion, duplicates or video formats

Easily find specific pictures using powerful search filters

Play Live Photos™ and short videos by hovering over them in albums and search results

Includes four high-resolution world maps with automatic image clustering based on the zoom level

Metadata is extracted and merged from Exif, XMP, and other sources such as Google Photos

Automatic classification of pictures based on their content and location

Detection and recognition of faces using Google TensorFlow



WebDAV clients such as Microsoft's Windows Explorer and Apple's Finder can connect directly to PhotoPrism, allowing you to open, edit, and delete files from your computer as if they were local

Privacy-friendly: No data is ever sent to Google, Amazon, Facebook, or Apple unless you explicitly upload files to one of their services



### **Broad File Format Support**

PhotoPrism supports indexing, viewing, and converting most common image, video, and RAW file formats, including JPEG, PNG, GIF, BMP, HEIF, HEIC, MP4, MOV, WebP, and WebM. TIFF is partially supported without extensions like GeoTIFF. The internally used image format is JPEG. JPEG XL support is planned as soon as it is generally available and enough compatible tools exist.

Converting RAW files is possible with Darktable and RawTherapee. On a Mac, RAW files can also be converted with Apple's Sips. Our goal is to provide first-class support for all RAW formats, regardless of camera make and model.

Video formats supported by FFmpeg can be transcoded to MPEG-4 AVC for maximum browser compatibility. Still images for thumbnail creation can be extracted from most videos as well.

| Format | Description                             | Туре    | Extensions  |
|--------|---|---------|---|
| ВМР    | Bitmap                                  | Image   | .bmp  |
| GIF    | Graphics Interchange Format             | Image   | .gif  |
| HEIF   | High Efficiency Image File Format       | Image   | .avci, .avcs, .avif, .avifs, .heic, .heics, .heif, .heifs   |
| JPG    | Joint Photographic Experts Group (JPEG) | Image   | .jfi, .jfif, .jif, .jpe, .jpeg, .jpg, .thm  |
| MPO    | Stereoscopic JPEG (3D)                  | Image   | .mpo  |
| PNG    | Portable Network Graphics               | Image   | .pn, .png   |
| TIFF   | Tag Image File Format                   | Image   | .tif, .tiff   |
| WEBP   | Google WebP                             | Image   | .webp   |
| RAW    | Unprocessed Sensor Data                 | Raw     | .3fr, .ari, .arw, .bay, .cap, .cr2, .cr3, .crw, .data, .dcr, .dcs, .dng, .drf, .eip, .erf, .fff, .gpr, .iiq, .k25, .kdc, .mdc, .mef, .mos, .mrw, .nef, .nrw, .obm, .orf, .pef, .ptx, .pxn, .r3d, .raf, .raw, .rw2, .rw1, .rwz, .sr2, .srf, .srw, .x3f |
| AAE    | Apple Image Edits XML                   | Sidecar | .aae  |
| JSON   | Serialized JSON Data (Exiftool, Google  | Sidecar | .json   |



| Photos)                                       |  |   |
|---|--|---|
| Markdown Formatted Text                       | Sidecar  | .markdown, .md  |
| Plain Text                                    | Sidecar  | .txt  |
| Extensible Markup Language                    | Sidecar  | .xml  |
| Adobe Extensible Metadata Platform            | Sidecar  | .xmp  |
| Serialized YAML Data (Config, Metadata)       | Sidecar  | .yaml, .yml   |
| Mobile Multimedia Container (CDMA2000)        | Video  | .3g2  |
| Mobile Multimedia Container (3G)              | Video  | .3gp  |
| Advanced Systems Format                       | Video  | .asf  |
| AOMedia Video 1                               | Video  | .av1  |
| Advanced Video Coding (H.264, MPEG-4 Part 10) | Video  | .avc  |
| Microsoft Audio Video Interleave              | Video  | .avi  |
| Adobe Flash                                   | Video  | .f4v, .flv  |
| High Efficiency Video Coding (H.265)          | Video  | .hevc   |
| Motion JPEG                                   | Video  | .mjpeg, .mjpg   |
| Matroska Multimedia Container                 | Video  | .mkv  |
| Apple QuickTime                               | Video  | .mov, .qt   |
| MPEG 2 (H.262)                                | Video  | .mp2, .mpv  |
| Multimedia Container (MPEG-4 Part 14)         | Video  | .m4v, .mp, .mp4   |
| Moving Picture Experts Group (MPEG)           | Video  | .mpeg, .mpg   |
| Advanced Video Coding High Definition (AVCHD) | Video  | .mts  |
| Ogg Media (OGG)                               | Video  | .ogg, .ogv, .ogx  |
| Versatile Video Coding (H.266)                | Video  | .vvc  |
| Google WebM                                   | Video  | .webm   |
| Windows Media                                 | Video  | .wmv  |
|   | Markdown Formatted Text Plain Text Extensible Markup Language Adobe Extensible Metadata Platform Serialized YAML Data (Config, Metadata) Mobile Multimedia Container (CDMA2000) Mobile Multimedia Container (3G) Advanced Systems Format AOMedia Video 1 Advanced Video Coding (H.264, MPEG-4 Part 10) Microsoft Audio Video Interleave Adobe Flash High Efficiency Video Coding (H.265) Motion JPEG Matroska Multimedia Container Apple QuickTime MPEG 2 (H.262) Multimedia Container (MPEG-4 Part 14) Moving Picture Experts Group (MPEG) Advanced Video Coding High Definition (AVCHD) Ogg Media (OGG) Versatile Video Coding (H.266) Google WebM | Markdown Formatted Text  Plain Text  Sidecar  Extensible Markup Language  Adobe Extensible Metadata Platform  Serialized YAML Data (Config, Metadata)  Mobile Multimedia Container (CDMA2000)  Mobile Multimedia Container (3G)  Advanced Systems Format  AOMedia Video 1  Advanced Video Coding (H.264, MPEG-4 Part 10)  Microsoft Audio Video Interleave  Adobe Flash  Video  High Efficiency Video Coding (H.265)  Motion JPEG  Matroska Multimedia Container  Video  MPEG 2 (H.262)  Multimedia Container (MPEG-4 Part 14)  Moving Picture Experts Group (MPEG)  Advanced Video Coding High Definition (AVCHD)  Ogg Media (OGG)  Video  Video |



## Powerful Search Filters

Easily find specific photos and videos using powerful search filters. Your pictures are automatically classified based on their content and location. Many more image properties like colors, chroma, and quality can be searched as well.

Pictures marked as private, archived, or under review do not appear in regular search results.

| fmin decimal fmin:1.245 F-number (min)  lat decimal lat:1.245 Latitude (GPS Position)  lng decimal number chroma:70 Chroma (0-100)  diff number diff:-1 diff:2 Differential Perceptual Hash (00000-FFFFFF)  dist number dist:5 Distance in km in combination with lat/lng  quality:0 quality:3 Quality Score (0-7)  album string album:berlin Album UID or Name, supports * wildcards  albums string albums:"South Africa & Album Names, can be combined with & and    Birds"  camera string camera:canon Camera Make/Model Name  category string category:"name" Location Category Name  color string color: "red blue" Color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    day string day:3 13 Day of Month (1-31), OR search with    face string face:PN6QO5INYTUSAATOFL 43L12ABAV5ACZG  faces string faces:yes faces:3 Minimum number of Faces (yes = 1)  filename string folder:"*/2020" Path Name, OR search with  , supports * wildcards  face string hash:2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string keywords:"bird&water" Keywords, can be combined with & and    label string label:cat dog Label Name, OR search with | Filter   | Туре    | Examples              | Notes  |  |
|---|----------|---------|-----------------------|--|--|
| lat decimal lat:1.245 Latitude (GPS Position)  Ing decimal lng:1.245 Longitude (GPS Position)  chroma number chroma:70 Chroma (0-100)  diff number diff:-1 diff:2 Differential Perceptual Hash (000000-FFFFFF)  dist number dist:5 Distance in km in combination with lat/lng  quality number quality:0 quality:3 Quality Score (0-7)  album string album:berlin Album UID or Name, supports * wildcards  albums:"South Africa & Album Names, can be combined with & and    birds"  camera string camera:canon Camera Make/Model Name  category string category:"name" Location Category Name  color  color string color:"red blue" Color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    day string day:3 13 Day of Month (1-31), OR search with    face string face:PN6QO5INYTUSAATOFL 43LL2ABAV5ACZG  faces string faces:yes faces:3 Minimum number of Faces (yes = 1)  filename string filename:"2021/07/12345 jpg"  folder string folder:"*/2020" Path Name, OR search with  , supports * wildcards  hash string hash:2fd4elc67a2d SHA1 File Hash, OR search with    keywords string label:cat dog Label Name, OR search with                     | fmax     | decimal | fmax:1.245            | F-number (max)   |  |
| Ing decimal lng:1.245 Longitude (GPS Position)  chroma number chroma:70 Chroma (0-100)  diff number diff:-1 diff:2 Differential Perceptual Hash (000000-FFFFFF)  dist number dist:5 Distance in km in combination with lat/lng  quality:0 quality:3 Quality Score (0-7)  album string album:berlin Album UID or Name, supports * wildcards  albums:"South Africa & Album Names, can be combined with & and    Birds"  camera string camera:canon Camera Make/Model Name  category string category: "name" Location Category Name  color  color: "red blue" Color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    day string day:3 13 Day of Month (1-31), OR search with    face string face: PN6QO5INYTUSAATOFL 43LL2ABAV5ACZG  faces string faces:yes faces:3 Minimum number of Faces (yes = 1)  filename string filename: "2021/07/12345 jpg"  folder string folder: "*/2020" Path Name, OR search with  , supports * wildcards  hash string keywords: "bird&water" Keywords, can be combined with & and    label string label:cat dog Label Name, OR search with   | fmin     | decimal | fmin:1.245            | F-number (min)   |  |
| chroma number chroma:70 Chroma (0-100)  diff number diff:-1 diff:2 Differential Perceptual Hash (000000-FFFFF)  dist number dist:5 Distance in km in combination with lat/lng quality number quality:0 quality:3 Quality Score (0-7)  album string album:berlin Album UID or Name, supports * wildcards  albums: "South Africa & Album Names, can be combined with & and   Birds" Camera String camera:canon Camera Make/Model Name  category string category: "name" Location Category Name  color string color: "red blue" Color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    country string day:3 13 Day of Month (1-31), OR search with    face: PN6QO5INYTUSAATOFL 43LL2ABAV5ACZG Minimum number of Faces (yes = 1)  filename string filename: "2021/07/12345 File Name with path and extension, OR search with    folder string hash:2fd4elc67a2d SHA1 File Hash, OR search with    keywords string label:cat dog Label Name, OR search with  | lat      | decimal | lat:1.245             | Latitude (GPS Position)  |  |
| diff number diff:-1 diff:2 Differential Perceptual Hash (00000-FFFFFF) dist number dist:5 Distance in km in combination with lat/lng quality number quality:0 quality:3 Quality Score (0-7)  album string albums:berlin Album UID or Name, supports * wildcards Album String albums: "South Africa & Birds"  camera string camera:canon Camera Make/Model Name  category string category: "name" Location Category Name  color string color: "red blue" Color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    country string day:3 13 Day Month (1-31), OR search with    face string face:PN6QO5INYTUSAATOFL 43LL2ABAV5ACZG  faces string filename: "2021/07/12345 Jpg"  folder string folder: "*/2020" Path Name, OR search with  , supports * wildcards  hash string hash:2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string label:cat dog Label Name, OR search with    Label Name, OR search with    Label Name, OR search with   | Ing      | decimal | lng:1.245             | Longitude (GPS Position)   |  |
| dist number dist:5  quality number quality:0 quality:3  album string albums:"South Africa & Album UID or Name, supports * wildcards  albums string albums:"South Africa & Album Names, can be combined with & and    Birds"  camera string camera:canon Camera Make/Model Name  category string category:"name"  color string color:"red blue"  color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    day string day:3 13  face string face:PN6QO5INYTUSAATOFL 43LL2ABAV5ACZG  faces string faces:yes faces:3  filename string filename:"2021/07/12345  .jpg"  folder string folder:"*/2020"  Path Name, OR search with  , supports * wildcards  keywords string keywords:"bird&water"  Keywords, can be combined with & and    Label Name, OR search with    Keywords, can be combined with & and    Label Name, OR search with   | chroma   | number  | chroma:70             | Chroma (0-100)   |  |
| quality number quality:0 quality:3 Quality Score (0-7) album string album:berlin Album UID or Name, supports * wildcards albums: "South Africa & Album Names, can be combined with & and   Birds" Camera String camera:canon Camera Make/Model Name category string category: "name" Location Category Name color string color: "red blue" Color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with   day string day:3 13 Day of Month (1-31), OR search with   face string face: PN6Q05INYTUSAATOFL 43LL2ABAV5ACZG faces string faces: yes faces:3 Minimum number of Faces (yes = 1) filename string filename: "2021/07/12345 File Name with path and extension, OR search with   folder string hash:2fd4e1c67a2d SHA1 File Hash, OR search with   keywords string label:cat dog Label Name, OR search with   | diff     | number  | diff:-1 diff:2        | Differential Perceptual Hash (000000-FFFFFF)   |  |
| album string album:berlin album:"South Africa & Album UID or Name, supports * wildcards albums: "South Africa & Album Names, can be combined with & and   Birds"  camera string camera:canon Camera Make/Model Name  category string category: "name" Location Category Name  color string color: "red blue" Color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    country string day:3 13 Day of Month (1-31), OR search with    face string face:PN6QO5INYTUSAATOFL 43LL2ABAV5ACZG faces string faces:yes faces:3 Minimum number of Faces (yes = 1)  filename string filename:"2021/07/12345 File Name with path and extension, OR search with    folder string folder:"*/2020" Path Name, OR search with  , supports * wildcards  hash string hash:2fd4elc67a2d SHA1 File Hash, OR search with    keywords string label:cat dog Label Name, OR search with  | dist     | number  | dist:5                | Distance in km in combination with lat/lng   |  |
| albums string albums: "South Africa & Birds"  camera string camera: canon Camera Make/Model Name  category string category: "name" Location Category Name  color string color: "red blue" Color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    country string day: 3 13 Day of Month (1-31), OR search with    face string face: PN6Q05INYTUSAATOFL 43LL2ABAV5ACZG Minimum number of Faces (yes = 1)  filename string filename: "2021/07/12345 if Name with path and extension, OR search with    folder string folder: "*/2020" Path Name, OR search with    keywords string keywords: "bird&water" Keywords, can be combined with & and    label string label: cat dog Label Name, OR search with   | quality  | number  | quality:0 quality:3   | Quality Score (0-7)  |  |
| Birds"  camera string camera:canon  category string category:"name"  color string color:"red blue"  country string country:"de us"  country Code, OR search with    day string face:PN6Q05INYTUSAATOFL 43LL2ABAV5ACZG  faces string faces:yes faces:3  filename string folder:"*/2020"  folder string bash:2fd4e1c67a2d  keywords string habel:cat dog  Camera Make/Model Name  Country Code, OR search with    Face ID  Face ID  File Name with path and extension, OR search with    File Name, OR search with  , supports *  wildcards  hash string hash:2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string label:cat dog Label Name, OR search with   | album    | string  | album:berlin          | Album UID or Name, supports * wildcards  |  |
| category string category: "name" Location Category Name  color string color: "red blue" Color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    country string country: "de us" Country Code, OR search with    day string day:3 13 Day of Month (1-31), OR search with    face string face: PN6Q05INYTUSAATOFL 43LL2ABAV5ACZG  faces string faces: yes faces:3 Minimum number of Faces (yes = 1)  filename string filename: "2021/07/12345 File Name with path and extension, OR search with    folder string folder: "*/2020" Path Name, OR search with  , supports * wildcards  hash string hash:2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string keywords: "bird&water" Keywords, can be combined with & and    label string label:cat dog Label Name, OR search with  | albums   | string  |                       | Album Names, can be combined with & and  |  |
| color string color: "red blue" Color Name (purple, magenta, pink, red, orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    country string country: "de us" Country Code, OR search with    day string day:3 13 Day of Month (1-31), OR search with    face string face: PN6Q05INYTUSAATOFL 43LL2ABAV5ACZG  faces string faces: yes faces: 3 Minimum number of Faces (yes = 1)  filename string filename: "2021/07/12345 File Name with path and extension, OR search with    folder string folder: "*/2020" Path Name, OR search with  , supports * wildcards  hash string hash:2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string keywords: "bird&water" Keywords, can be combined with & and    label string label:cat dog Label Name, OR search with  | camera   | string  | camera:canon          | Camera Make/Model Name   |  |
| orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search with    country string country: "de us" Country Code, OR search with    day string day: 3 13 Day of Month (1-31), OR search with    face string face: PN6Q05INYTUSAATOFL 43LL2ABAV5ACZG  faces string faces: yes faces: 3 Minimum number of Faces (yes = 1)  filename string filename: "2021/07/12345 File Name with path and extension, OR search with    folder string folder: "*/2020" Path Name, OR search with  , supports * wildcards  hash string hash: 2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string keywords: "bird&water" Keywords, can be combined with & and    label string label: cat dog Label Name, OR search with  | category | string  | category: "name"      | Location Category Name   |  |
| day string day:3 13 Day of Month (1-31), OR search with    face string face:PN6Q05INYTUSAATOFL 43LL2ABAV5ACZG  faces string faces:yes faces:3 Minimum number of Faces (yes = 1)  filename string filename:"2021/07/12345 File Name with path and extension, OR search with    folder string folder:"*/2020" Path Name, OR search with  , supports * wildcards  hash string hash:2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string keywords:"bird&water" Keywords, can be combined with & and    label string label:cat dog Label Name, OR search with  | color    | string  | color:"red blue"      | orange, gold, yellow, lime, green, teal, cyan, blue, brown, white, grey, black), OR search |  |
| face string face:PN6Q05INYTUSAATOFL 43LL2ABAV5ACZG  faces string faces:yes faces:3 Minimum number of Faces (yes = 1)  filename string filename:"2021/07/12345 File Name with path and extension, OR search with    folder string folder:"*/2020" Path Name, OR search with  , supports * wildcards  hash string hash:2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string keywords:"bird&water" Keywords, can be combined with & and    label string label:cat dog Label Name, OR search with   | country  | string  | country:"de us"       | Country Code, OR search with   |  |
| faces string faces:yes faces:3 Minimum number of Faces (yes = 1)  filename string filename:"2021/07/12345 File Name with path and extension, OR search with    folder string folder:"*/2020" Path Name, OR search with  , supports * wildcards  hash string hash:2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string keywords:"bird&water" Keywords, can be combined with & and    label string label:cat dog Label Name, OR search with   | day      | string  | day:3 13              | Day of Month (1-31), OR search with  |  |
| filename string filename: "2021/07/12345 File Name with path and extension, OR search with    folder string folder: "*/2020" Path Name, OR search with  , supports * wildcards  hash string hash: 2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string keywords: "bird&water" Keywords, can be combined with & and    label string label: cat dog Label Name, OR search with  | face     | string  |                       | Face ID  |  |
| .jpg" with    folder string folder: "*/2020" Path Name, OR search with  , supports * wildcards  hash string hash: 2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string keywords: "bird&water" Keywords, can be combined with & and    label string label: cat dog Label Name, OR search with  | faces    | string  | faces:yes faces:3     | Minimum number of Faces (yes = 1)  |  |
| wildcards  hash string hash:2fd4e1c67a2d SHA1 File Hash, OR search with    keywords string keywords:"bird&water" Keywords, can be combined with & and    label string label:cat dog Label Name, OR search with  | filename | string  |                       | •  |  |
| keywords string keywords:"bird&water" Keywords, can be combined with & and    label string label:cat dog Label Name, OR search with   | folder   | string  | folder:"*/2020"       |  |  |
| label string label:cat dog Label Name, OR search with   | hash     | string  | hash:2fd4e1c67a2d     | SHA1 File Hash, OR search with   |  |
|   | keywords | string  | keywords:"bird&water" | Keywords, can be combined with & and   |  |
| lens string lens:ef24 Lens Make/Model Name  | label    | string  | label:cat dog         | Label Name, OR search with   |  |
|   | lens     | string  | lens:ef24             | Lens Make/Model Name   |  |



| month     | string | month:7 10                    | Month (1-12), OR search with                                   |  |
|-----------|--------|-------------------------------|--|--|
| name      | string | name:"IMG_9831-112*"          | File Name without path and extension, OR search with           |  |
| original  | string | original:"IMG_9831-112*       | Original file name of imported files, OR search with           |  |
| path      | string | path:2020/Holiday             | Path Name, OR search with  , supports * wildcards              |  |
| people    | string | people:"Jane & John"          | Subject Names, can be combined with & and                      |  |
| person    | string | person:"Jane Doe & John Doe"  | Subject Names, exact matches, can be combined with & and       |  |
| state     | string | state: "Baden-Württember g"   | Name of State (Location), OR search with                       |  |
| subject   | string | subject:"Jane Doe & John Doe" | Alias for person   |  |
| subjects  | string | subjects:"Jane & John"        | Alias for people   |  |
| title     | string | title:"Lake*"                 | Title, OR search with  |  |
| type      | string | type:raw                      | Media Type (image, video, raw, live, animated); OR search with |  |
| uid       | string | uid:pqbcf5j446s0futy          | Internal Unique ID, only exact matches                         |  |
| year      | string | year:1990 2003                | Year Number, OR search with                                    |  |
| animated  | switch | animated:yes                  | Finds animated GIFs  |  |
| archived  | switch | archived:yes                  | Finds archived pictures  |  |
| error     | switch | error:yes                     | Finds pictures with errors                                     |  |
| favorite  | switch | favorite:yes                  | Finds pictures marked as favorite                              |  |
| geo       | switch | geo:yes                       | Finds pictures with GPS location                               |  |
| hidden    | switch | hidden:yes                    | Finds hidden pictures (broken or unsupported)                  |  |
| landscape | switch | landscape:yes                 | Finds pictures in landscape format                             |  |
| live      | switch | live:yes                      | Finds Live Photos and short videos                             |  |
| mono      | switch | mono:yes                      | Finds pictures with few or no colors                           |  |
| panorama  | switch | panorama:yes                  | Finds pictures with an aspect ratio > 1.9:1                    |  |
| photo     | switch | photo:yes                     | Finds only photos, no videos                                   |  |
| portrait  | switch | portrait:yes                  | Finds pictures in portrait format                              |  |
| primary   | switch | primary:yes                   | Finds primary JPEG files only                                  |  |
| private   | switch | private:yes                   | Finds private pictures   |  |
| public    | switch | public:yes                    | Excludes private pictures                                      |  |
| raw       | switch | raw:yes                       | Finds pictures with RAW image file                             |  |
| review    | switch | review:yes                    | Finds pictures in review                                       |  |
| scan      | switch | scan:yes                      | Finds scanned images and documents                             |  |
| square    | switch | square:yes                    | Finds images with an aspect ratio of 1:1                       |  |
|           |        |                               |  |  |



| stack     | switch    | stack:yes                       | Finds pictures with more than one media file                   |
|-----------|-----------|---------------------------------|--|
| stackable | switch    | stackable:yes                   | Finds pictures that can be stacked with additional media files |
| unsorted  | switch    | unsorted:yes                    | Finds pictures not in an album                                 |
| unstacked | switch    | unstacked:yes                   | Finds pictures with a file that has been removed from a stack  |
| vector    | switch    | vector:yes                      | Finds vector graphics only                                     |
| video     | switch    | video:yes                       | Finds video files only   |
| after     | timestamp | after:"2022-01-30<br>15:23:42"  | Finds pictures taken after this date                           |
| before    | timestamp | before:"2022-01-30<br>15:23:42" | Finds pictures taken before this date                          |

### **Advanced Metadata Extraction**

Original media and sidecar files are scanned for Exif and XMP data as well as proprietary metadata, including Google Photos JSON. The combined information is normalized and merged. Supported fields include Title, Description, Date, Location, Camera, Lens, ISO, F Number, Exposure, Focal Length, Subject, Artist, Keywords, and Copyright.

| Field       | Туре     | Exif / XMP Tags   |
|-------------|----------|---|
| Aperture    | decimal  | ApertureValue, Aperture   |
| FNumber     | decimal  | FNumber   |
| FPS         | decimal  | VideoFrameRate, VideoAvgFrameRate   |
| Duration    | duration | Duration, MediaDuration, TrackDuration  |
| Flash       | flag     | FlashFired  |
| Keywords    | list     | Keywords  |
| Altitude    | number   | GlobalAltitude, GPSAltitude   |
| FocalLength | number   | FocalLength   |
| Frames      | number   | FrameCount  |
| Height      | number   | PixelYDimension, ImageHeight, ImageLength, ExifImageHeight, SourceImageHeight |
| ImageType   | number   | HDRImageType  |
| Iso         | number   | ISO   |
| Rotation    | number   | Rotation  |
| Width       | number   | PixelXDimension, ImageWidth, ExifImageWidth, SourceImageWidth                 |
| Artist      | text     | Artist, Creator, OwnerName, Owner   |



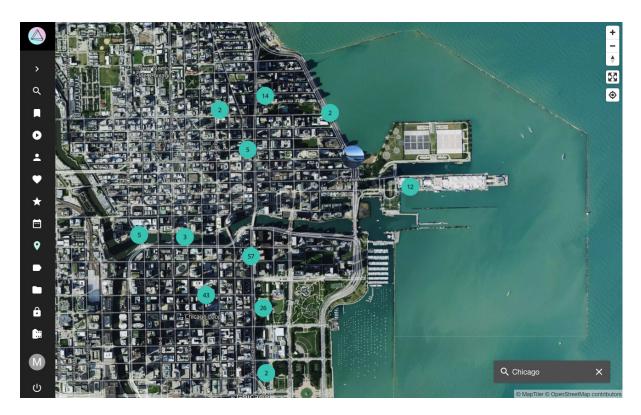
| CameraMake   | text      | CameraMake, Make  |
|--------------|-----------|---|
| CameraModel  | text      | CameraModel, Model  |
| CameraOwner  | text      | OwnerName   |
| CameraSerial | text      | SerialNumber  |
| Codec        | text      | CompressorID, FileType  |
| ColorProfile | text      | ICCProfileName, ProfileDescription  |
| Copyright    | text      | Rights, Copyright, WebStatement   |
| Description  | text      | Description   |
| DocumentID   | text      | BurstUUID, MediaGroupUUID, ImageUniqueID, OriginalDocumentID, DocumentID  |
| Exposure     | text      | ExposureTime, ShutterSpeedValue, ShutterSpeed, TargetExposureTime   |
| FileName     | text      | FileName  |
| GPSLatitude  | text      | GPSLatitude   |
| GPSLongitude | text      | GPSLongitude  |
| GPSPosition  | text      | GPSPosition   |
| InstanceID   | text      | InstanceID, DocumentID  |
| LensMake     | text      | LensMake  |
| LensModel    | text      | Lens, LensModel   |
| License      | text      | UsageTerms, License   |
| Notes        | text      | Comment   |
| Projection   | text      | ProjectionType  |
| Software     | text      | Software, HistorySoftwareAgent, ProcessingSoftware  |
| Subject      | text      | Subject, PersonInImage, ObjectName, HierarchicalSubject, CatalogSets  |
| Title        | text      | Title   |
| TakenAt      | timestamp | DateTimeOriginal, CreationDate, CreateDate, MediaCreateDate, ContentCreateDate, DateTimeDigitized, DateTime, SubSecDateTimeOriginal, SubSecCreateDate |
| TakenAtLocal | timestamp | DateTimeOriginal, CreationDate, CreateDate, MediaCreateDate, ContentCreateDate, DateTimeDigitized, DateTime, SubSecDateTimeOriginal, SubSecCreateDate |
| TakenGps     | timestamp | GPSDateTime, GPSDateStamp   |
|              |           |   |



# Maps & Places

PhotoPrism includes four high-resolution world maps with automatic image clustering based on the zoom level. Our privacy-preserving backend services provide worldwide location information to enrich your pictures with details such as state, city, and category.

Future releases will be able to use public event data to automatically create albums of popular music festivals or sporting events.





### System Requirements

We recommend hosting PhotoPrism on a server with at least 2 cores, 3 GB of physical memory, and a 64-bit operating system. Beyond these minimum requirements, the amount of RAM should match the number of CPU cores.

High-resolution panoramic images may require additional swap space and/or physical memory above the recommended minimum.

#### **Browsers**

Our Progressive Web App (PWA) works with most modern browsers, and runs best on Chrome, Chromium, Safari, Firefox, and Edge. You can conveniently install it on the home screen of all major operating systems and mobile devices.

Note that not all video and audio formats can be played with every browser. For example, AAC - the default audio codec for MPEG-4 AVC / H.264 - is supported natively in Chrome, Safari, and Edge, while it is only optionally supported by the OS in Firefox and Opera.

#### **Databases**

PhotoPrism is compatible with SQLite 3 and MariaDB 10.5.12+. Official support for MySQL 8 has been discontinued due to a lack of new features and low demand from our users. Support for PostgreSQL is planned for a future release.

#### **Storage**

Indexing large photo and video collections significantly benefits from local SSD storage. Especially the conversion of RAW images and the transcoding of videos are very demanding. The use of SSDs as database storage is also highly recommended.

### **Deployment**

We recommend using Docker for running PhotoPrism as it provides a common standard across most operating systems and devices, enabling teams to have the exact same environment everywhere in development, staging, and production. Our stable release and development preview have been built into a single multi-arch image for 64-bit AMD, Intel, and ARM processors, including Raspberry Pi 3 / 4, Apple Silicon, and other ARM64-based devices.

Step-by-step installation instructions can be found on <u>docs.photoprism.app</u>. You are welcome to contact us for other deployment options if needed.