



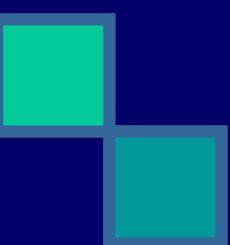

Building an Image Database



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Filing to be Found

- 
- *"The hill is only steep*
 - *if you try to climb it all at once"*
- 




Demystifying Image Metadata

- 
- *What is "Metadata"*
- 

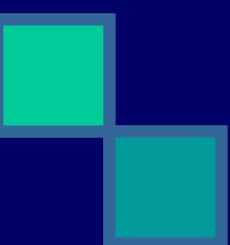



Demystifying Image Metadata

- *What is "Metadata"*
 - *Literally, data about data*
- 

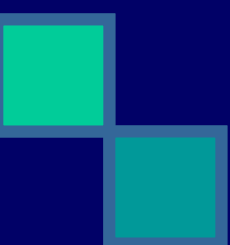



Demystifying Image Metadata

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 - *Literally, data about data*
 - *Information ABOUT the image*
- 
- 




Demystifying Image Metadata

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 - *Literally, data about data*
 - *Information ABOUT the image*
 - *How can "metadata" help me?*
- 
- 




Demystifying Image Metadata

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 - *Information ABOUT the image*
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 - *Enter once, use forever*
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 - *Data goes "along for the ride"*
- 



Demystifying Image Metadata

- *What is "Metadata"*
 - *Literally, data about data*
 - *Information ABOUT the image*
 - *How can "metadata" help me?*
 - *Enter once, use forever*
 - *Data goes "along for the ride"*
 - *Allows "database agnosticism" (portability)*
- 



Types of Image Metadata

- *Technical*
- 



Types of Image Metadata

- *Technical -- > EXIF*
- 



Types of Image Metadata

- *Technical*
 - *Descriptive*
- 



Types of Image Metadata

- *Technical*
 - *Descriptive → IPTC and XMP*
- 



Types of Image Metadata

- *Technical*
 - *Descriptive*
 - *Administrative*
- 



Types of Image Metadata



- *EXIF*

- *Extensible Information File (TK)*
 - *Digital Camera Proprietary Data*
 - *Designed to be Read Only*
- 




Types of Image Metadata

- 
- *IPTC*





Types of Image Metadata


- *IPTC*
 - *International Press Telecommunications Council*
 - *IPTC "legacy" metadata*
 - *IPTC Core (developed for XMP)*
- 



Types of Image Metadata




- *XMP*

- *Extensible Metadata Platform (Adobe)*
 - *Aka – “File Info” (in PS lingo)*
 - *Slightly more than IPTC*
- 




IPTC Standard

- *Two Types of IPTC*
 - *IPTC –Legacy Metadata*
 - *IPTC Core (demo)*
- 



IPTC Standard

- *IPTC –Legacy Metadata*
 - *Information Interchange Module version 4*
 - *Photoshop File Info (PS 4 to 7)*
 - *“Lingua franca” of many imagedbs*
- 



IPTC Standard

- *IPTC Core*
 - *Photoshop File Info (CS and CS2)*
 - *Relatively new = limited*
- 




IPTC (legacy) limits

- 
- *Legacy fields have maximum character counts*
- 




IPTC (legacy) limits

- *Legacy fields have maximum character counts*
 - *Two most important fields:*
- 




IPTC (legacy) limits

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 - *Two most important fields:*
 - ***caption** -maximum of 2000 characters*
- 




IPTC (legacy) limits

- *Legacy fields have maximum character counts*
 - *Two most important fields:*
 - ***caption** -maximum of 2000 characters*
 - ***Keywords***
- 




IPTC (legacy) limits

- *Legacy fields have maximum character counts*
 - *Two most important fields:*
 - ***caption*** -maximum of 2000 characters
 - ***Keywords***
 - *maximum of 64 characters per keyword*
 - *But “unlimited” number of keywords*
- 



IPTC (legacy) limits

- *Other fields have character limits too*
 - *For Details see:*
 - controlledvocabulary.com/imagedatabases/ip/tc_naa.html
- 



IPTC Core

- 
- *The latest revision of this standard*
- 




IPTC Core

- *The latest revision of this standard*
 - *Designed to work with XMP*
- 




IPTC Core

- *The latest revision of this standard*
 - *Designed to work with XMP*
 - *Backwards compatible with legacy IPTC*
- 




IPTC Core

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 - *no limit on field lengths*
- 




IPTC Core

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 - *Designed to work with XMP*
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 - *no limit on field lengths*
 - *many new additions*
- 



IPTC Core

- *The latest revision of this standard*
 - *Designed to work with XMP*
 - *Backwards compatible with legacy IPTC*
 - *no limit on field lengths*
 - *many new additions*
 - *limited support with current applications*
- 




XMP

- *Adobe version of XML*
 - *(Extensible Markup Language)*
- 




XMP

- *Adobe version of XML*
 - *(Extensible Markup Language)*
 - *W3C markup language (Structured information)*
- 




XMP

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 - *(Extensible Markup Language)*
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 - *Housed within and as "sidecars" (RAW)*
- 




XMP

- *Adobe version of XML*
 - *(Extensible Markup Language)*
 - *W3C markup language (Structured information)*
 - *Housed within and as "sidecars" (RAW)*
 - *Could eventually be "web-readable"*
- 




Storing Metadata in Images

- *Eases paperwork burden*
 - *write once*
 - *extract data from files*
- 



Storing Metadata in Images

- *Eases paperwork burden*
 - *write once*
 - *extract data from files*
 - *Allows "Portability" between systems*
- 



Digital Workflows

- 
- *Same tasks, new ways to operate*



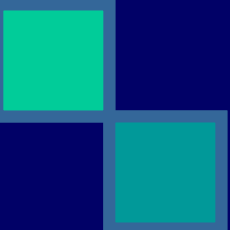


Digital Workflows

- 
- *Same tasks, new ways to operate*
 - *Metadata + Keywords + Cataloging*
- 



Digital Workflows

- 
- *Same tasks, new ways to operate*
 - *Metadata + Keywords + Cataloging*
 - *Result is "Metalogging"*
- 