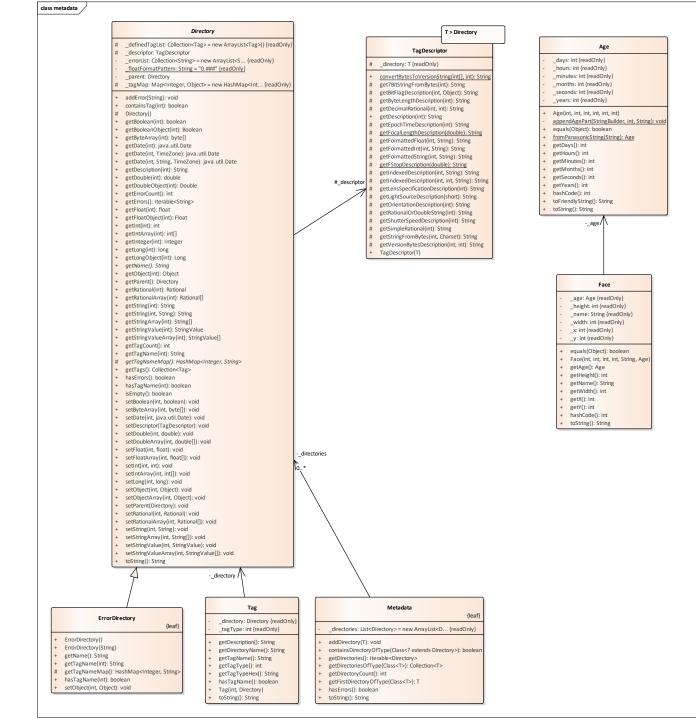
metadata-extractor

Reengineering mit Enterprise Architect

21.22.2017

Dr. Ingo Kreuz

metadata



StringValue

- _bytes: byte ([]) {readOnly} charset: Charset {readOnly
- getBytes(): byte[]
- getBytes(): byte[]
 getCharset(): Charset
- + StringValue(byte[], Charset
- + toString(): String + toString(Charset): String

Schema

- DUBLIN CORE SPECIFIC PROPERTIES: String = "http://purl.or... {readOnly
- EXIF ADDITIONAL PROPERTIES: String = "http://ns.adob... {readOnly}
- + EXIF SPECIFIC PROPERTIES: String = "http://ns.adob... {readOnly}
- + EXIF_TIFF_PROPERTIES: String = "http://ns.adob... {readOnly}
- XMP_PROPERTIES: String = "http://ns.adob... {readOnly}

MetadataReade

+ extract(RandomAccessReader, Metadata): void

CompoundException

MetadataException

- serialVersionUID: long = 8612756143363919682L {readOnly
- + MetadataException(String)
- + MetadataException(Throwable)
- + MetadataException(String, Throwable)

Proceedings of the control of the co LAPRASSE - 1966, EGGARNY PERANEL: Song - "Laftyto" (madous) - exocyllondon/acusulosée (Medabus); vid - exocyllondon/acusulosée (Medabus); vid - exocyllondon/acusulosée (Medabus); vid - exocyllondon/acusulosée (Medabus, vid; void - exocyllondon/acusulosée (Medabus, vid; void - exocyllondon/acusulosée (Medabus, vid; voicemy); void - exocyllondon/acusulosée (Medabus, vid; voicemy); void - getfepeert/perit voice/longologiquetry/peri SagOvacriptor FanasorickiswiFOCOvecriptor getDescriptorificT-String PanasorickiswiFOCOvecriptor/PanasoricRawiFOCOvectory) Togdinociptor PrintMitheorigase - getbesriptori(mt) String - PrintMitheorigase(PrintMitheotory) Faquescriptor Fanacoriolit a vital far fall observiptor gethescriptor/ed; Soing gethesi parkes implacting; Soing gethesi parkes implacting; Soing Fanacoriolit vital facility comprehensacoriolis vital refulbre-topy) Fanacoriolit vital facility comprehensacoriolis vital refulbre-topy) Paracodistration from page - gentracognosist (sing - gentracognosist) (sing - gentracognosist) (sing - gentracodistration conscious surgicus) (sing - gentracodistration (sing sing - gentracodistration (sing - gen And Automatics and Control of the Co Liftergebengter Lifter EultF000ecriptor • EultF000eccriptor(EultF000eccory) Spilinectory Inflationary Included a modification for the consideration installation Included a modification for the consideration installation Included a modification of the consideration of the consideratio Inflinated Discours - Inflinated Discourse: Discourse Inflination - Installation - Inflination - Control Control - Installation - Inflination - Control Control - Installation - Inflination - Control - Installation - Installation -

peg

class jpeg

HuffmanTablesDirectory::HuffmanTable

- lengthBytes: byte ([]) {readOnly}
- tableClass: HuffmanTableClass {readOnly}
- tableDestinationId: int {readOnly}
- tableLength: int {readOnly}
- valueBytes: byte ([]) {readOnly}
- getLengthBytes(): byte[]
- getTableClass(): HuffmanTableClass
- getTableDestinationId(): int
- getTableLength(): int
- getValueBytes(): byte[]
- HuffmanTable(HuffmanTableClass, int, byte[], byte[])
- isOptimized(): boolean
- isTypical(): boolean



Directory

- HuffmanTablesDirectory tagNameMap: HashMap<Integer, String> = new HashMap<Int... {readOnly}
- tables: List<HuffmanTable> = new ArrayList<H... {readOnly}
- TAG NUMBER OF TABLES: int = 1 {readOnly}
- TYPICAL CHROMINANCE AC LENGTHS: byte ([]) = { (byt... {readOnly} TYPICAL CHROMINANCE AC VALUES: byte ([]) = { (byt... {readOnly})
- TYPICAL CHROMINANCE DC LENGTHS: byte ([]) = { (byt... {readOnly})
- TYPICAL CHROMINANCE DC VALUES: byte ([]) = { (byt... {readOnly})
- TYPICAL LUMINANCE AC LENGTHS: byte ([]) = { (byt... {readOnly}
- TYPICAL_LUMINANCE_AC_VALUES: byte ([]) = { (byt... {readOnly}
- TYPICAL LUMINANCE DC LENGTHS: byte ([]) = { (byt... {readOnly}}
- TYPICAL LUMINANCE DC VALUES: byte ([]) = { (byt... {readOnly}
- getName(): String
- getNumberOfTables(): int
- getTable(int): HuffmanTable
- getTables(): List<HuffmanTable>
- getTagNameMap(): HashMap<Integer, String> HuffmanTablesDirectory()
- isOptimized(): boolean
- + isTypical(): boolean

TagDescriptor

HuffmanTablesDescriptor

- getDescription(int): String
- getNumberOfTablesDescription(): String
- HuffmanTablesDescriptor(HuffmanTablesDirectory)

HuffmanTableClass

DC

UNKNOWN

typeOf(int): HuffmanTableClass

TagDescriptor

JpegCommentDescriptor

- getJpegCommentDescription(): String
 - JpegCommentDescriptor(JpegCommentDirectory)

Directory

JpegCommentDirectory

- _tagNameMap: HashMap<Integer, String> = new HashMap<Int... {readOnly
- TAG COMMENT: int = 0 {readOnly}
- getName(): String
- getTagNameMap(): HashMap<Integer, String>
- JpegCommentDirectory()

JpegCommentReader

- getSegmentTypes(): Iterable<JpegSegmentType>
- readJpegSegments(Iterable<byte[]>, Metadata, JpegSegmentType): void

Serializable

JpegComponent

- _componentId: int {readOnly}
- _quantizationTableNumber: int {readOnly}
- samplingFactorByte: int {readOnly}
- serialVersionUID: long = 61121257899091914L {readOnly}
- getComponentId(): int
- getComponentName(): String
- getHorizontalSamplingFactor(): int
- getQuantizationTableNumber(): int
- getVerticalSamplingFactor(): int
- JpegComponent(int, int, int)
- toString(): String

TagDescripto

JpegDescriptor

- getComponentDataDescription(int): String
- getDataPrecisionDescription(): String
- getDescription(int): String
- getImageCompressionTypeDescription(): String
- getImageHeightDescription(): String
- getImageWidthDescription(): String
- JpegDescriptor(JpegDirectory)

JpegDhtReader

- extract(SequentialReader, Metadata): void
- getBytes(SequentialReader, int): byte[]
- getSegmentTypes(): Iterable<JpegSegmentType>
- readJpegSegments(Iterable<byte[]>, Metadata, JpegSegmentType): void

JpegDirectory

Directory

- tagNameMap: HashMap<Integer, String> = new HashMap<Int... {readOnly}
- TAG COMPONENT DATA 1: int = 6 {readOnly}
- TAG_COMPONENT_DATA_2: int = 7 {readOnly}
- TAG COMPONENT DATA 3: int = 8 {readOnly}
- TAG COMPONENT DATA 4: int = 9 {readOnly}
- TAG COMPRESSION TYPE: int = -3 {readOnly}
- TAG DATA PRECISION: int = 0 {readOnly}
- TAG IMAGE HEIGHT: int = 1 {readOnly}
- TAG IMAGE WIDTH: int = 3 {readOnly}
- TAG NUMBER OF COMPONENTS: int = 5 {readOnly}
- getComponent(int): JpegComponent
- getImageHeight(): int
- getImageWidth(): int
- getName(): String
- getNumberOfComponents(): int
- getTagNameMap(): HashMap<Integer, String>
- JpegDirectory()

JpegDnlReader

- + extract(byte[], Metadata, JpegSegmentType): void
- + getSegmentTypes(): Iterable<JpegSegmentType>
- + readJpegSegments(Iterable<byte[]>, Metadata, JpegSegmentType): void

JpegReader

- extract(byte[], Metadata, JpegSegmentType): void
- getSegmentTypes(): Iterable<JpegSegmentType>
- readJpegSegments(Iterable<byte[]>, Metadata, JpegSegmentType): void

imaging

class imaging

«enumeration» FileType

Unknown

Jpeg

Tiff

Psd

Png

Bmp

Gif

Ico

Pcx

Riff

Arw

Crw Cr2

Nef

Orf

Raf Rw2

FileTypeDetector

- root: ByteTrie<FileType> {readOnly}
- + detectFileType(BufferedInputStream): FileType
- FileTypeDetector()

ImageMetadataReader

- ImageMetadataReader()
- + main(String[]): void
- + readMetadata(InputStream): Metadata
- + readMetadata(InputStream, long): Metadata
- + readMetadata(File): Metadata

CompoundException

ImageProcessingException

- serialVersionUID: long = -91156691822099... {readOnly}
- + ImageProcessingException(String)
- + ImageProcessingException(String, Throwable)
- + ImageProcessingException(Throwable)

PhotographicConversions

{leaf}

- + ROOT_TWO: double = Math.sqrt(2) {readOnly}
- + <u>apertureToFStop(double): double</u>
- PhotographicConversions()
- + <u>shutterSpeedToExposureTime(double): double</u>

tools

