

**Multimedia im Netz**  
**Online Multimedia**  
**Winter semester 2015/16**

Tutorial 11 – Major Subject



# Today's Agenda

- Metadata Bingo
- MPEG-7
- Electronic Books
- (if time: Mashups-Showcase)

# Breakout: Metadata Bingo.

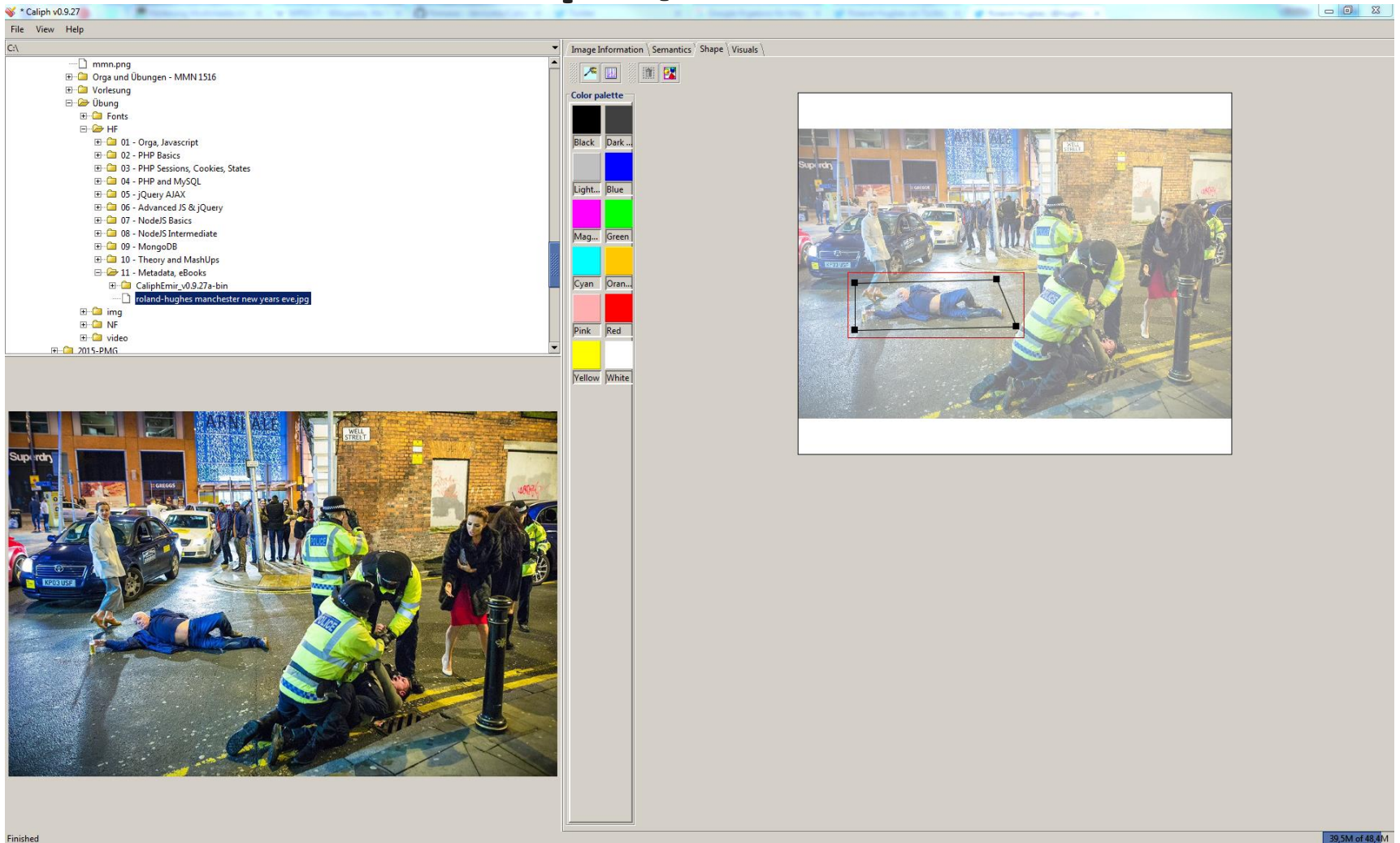
- Draw a 5x5 grid on a sheet of paper (A4, use all space)
- Write down these 25 terms in a **random order**:

Essence	Content	Embedded meta data	MPEG-7	ID3
Spatial Segment	Segment-graph	high level, structured meta data	High level unstructured meta data	Low level meta data
GraceNote	Feature extraction	Fingerprint	Temporal Segment	EXIF
Dublin Core	RDF	Shape Descriptor	Automatic Score Transcription	Shazam
Moving Pictures Expert Group	Still Region	Structural Relation	Above	Resource

# MPEG-7

- What is it?  
A very broad standard for multimedia content description (Metadata)
- Idea:  
standardize the way metadata is created and searched
- Aspects of the standard:
  - Description Schemes
  - Descriptors
  - Description Definition Language

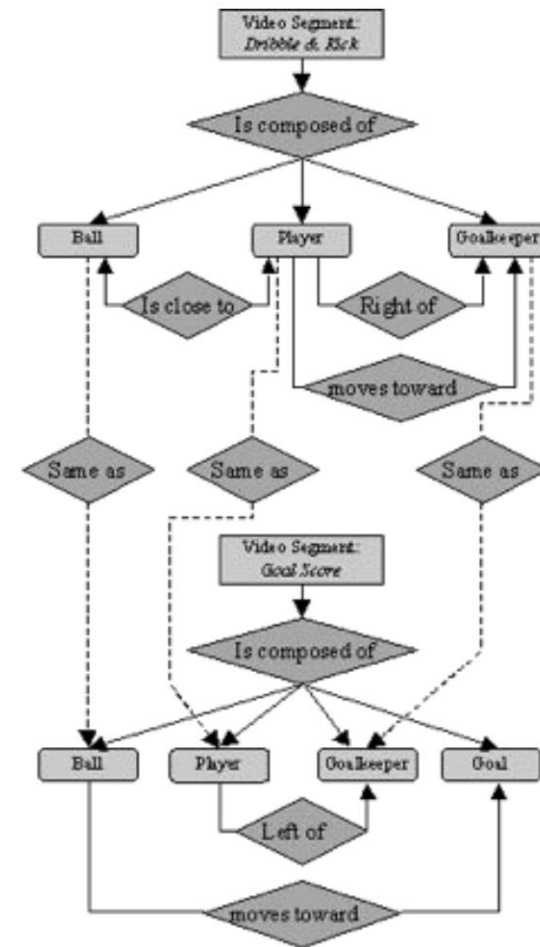
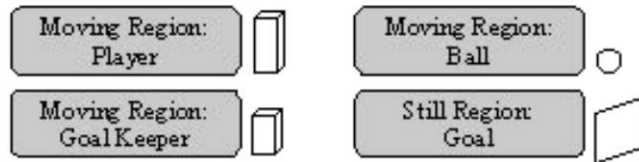
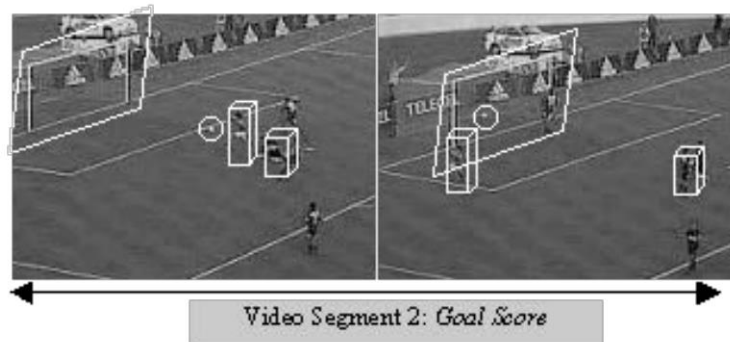
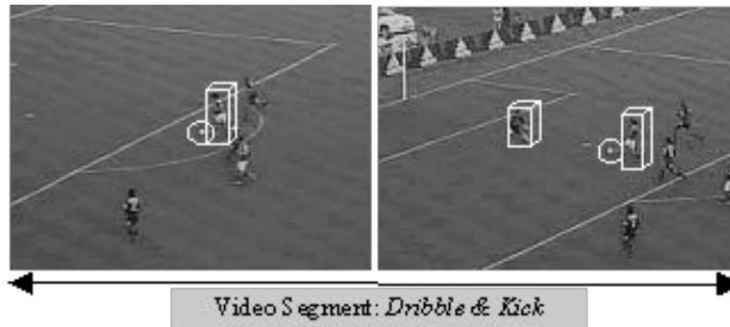
# Annotation - Caliph / Emir



<https://github.com/dermotte/CaliphEmir>,

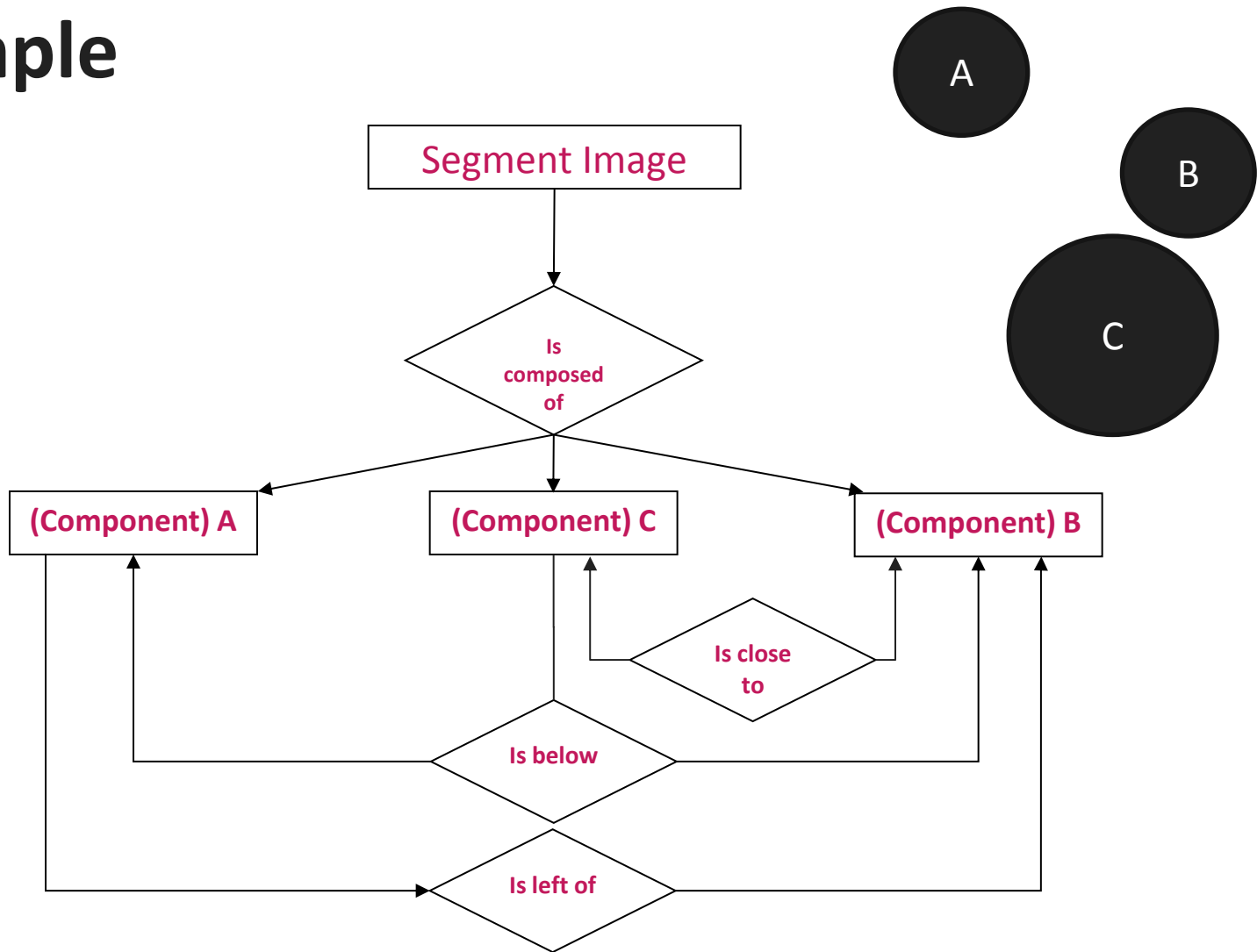
Picture: Joel Goodman, <http://joelgoodman.photoshelter.com/gallery-image/01-01-2016-New-Years-Day-Revellers/G0000BJ3yOKL5bj0/10000d8BEomSjDvc>

# Segment Graphs / Description Schemes



Source: <https://homepages.thm.de/~hg10013/Lehre/MMS/SS04/seibel/>

# Example



# Breakout: Create a Segment Graph

- Photo removed in public PDF version.

Picture by Joel Goodman,

<http://joelgoodman.photoshelter.com/gallery-image/01-01-2016-New-Years-Day-Revellers/G0000BJ3yOKL5bj0/I0000d8BEomSjDvc>



# Electronic Books

# Electronic Books

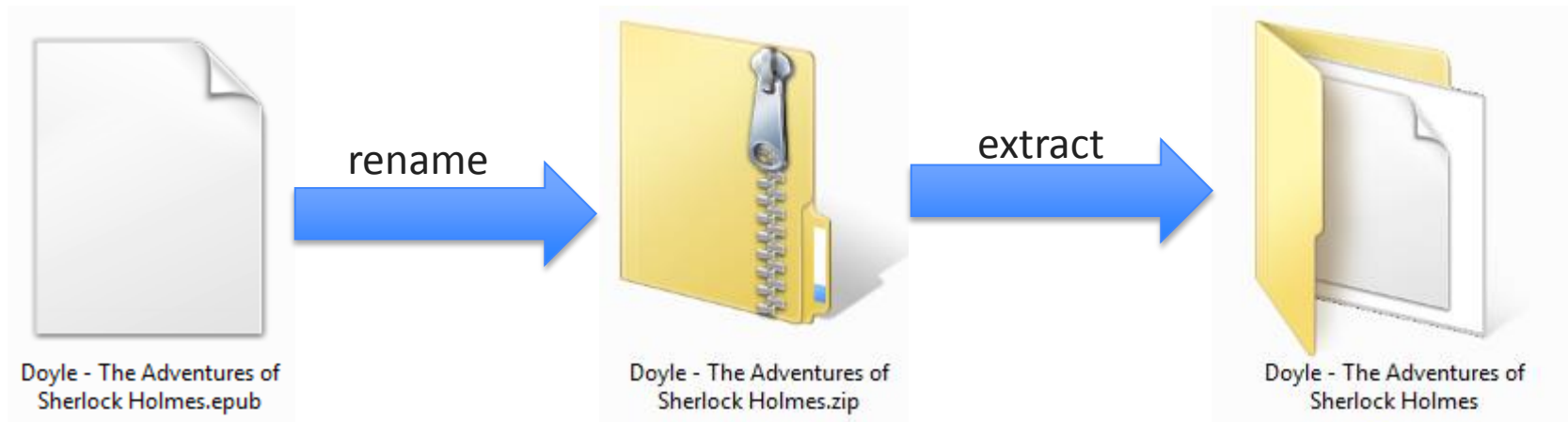
- Briefly: e-Book
- Idea: Read books on digital media, e.g. computers, tablets...
- Various formats (.awz, .epub, .mobi)
- Not only digital versions of printed books, but also solely digital books (e.g. those that were not accepted by print publishers)



[Sergey Galyonkin](#)

# ePub

- Container format for e-books
- Open standard to replace / extend the *Open eBook Publication Structure*, **OEBPS**
- Look inside an ePub:



<http://www.gutenberg.org/ebooks/1661>

# ePub - Standard Structure

<code>mimetype</code>	MIME type, e.g. application/epub+zip
<code>META-INF/</code>	
<code>container.xml</code>	Format definition
<code>OEBPS/</code>	
<code>content.opf</code>	Meta data, e.g. Dublin Core
<code>chapter1.xhtml</code>	Chapter (actual book content)
<code>ch1-pic.png</code>	Image file
<code>css/</code>	
<code>style.css</code>	Layout
<code>myfont.otf</code>	Font
<code>toc.ncx</code>	Table of contents (XML)

# Round-Up Quiz

1. Can you use MPEG-7 together with an analog movie? Explain.
2. What are problems with using MPEG-7?
3. Can you use ePub on an Amazon Kindle? Discuss the implications.

# Preparation



- As a final chapter of this semester, we will dive into the Polymer Library (sorry, no Angular this semester)
- It is necessary that you read at least some introductions or do some tutorials before we talk about Polymer.
- Here are some links that are highly recommended:
  - **MUST DO:** <https://www.polymer-project.org/1.0/docs/start/what-is-polymer.html>
  - <https://www.polymer-project.org/1.0/docs/start/quick-tour.html>
  - <https://angular.io/docs/js/latest/guide/>
  - <https://github.com/timjacobi/angular2-education>

**Thanks!**

**What are your questions?**