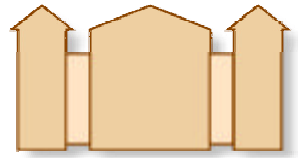


Semantics for multimedia presentations on the Web

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Talk overview

Problem

- Too many users, too many devices
- Design dependencies

Example presentation

- Rembrandt and chiaroscuro
- Cuypers transformation engine

Where are the semantics?

- Explicit and implicit
- How should these be incorporated within a presentation-generation system?

Too many users, too many devices

Multimedia presentations should be tailored to the

- user
 - language, abilities, level of expertise, task, ...
- end-user's platform capabilities
 - PC, PDA, mobile, voice-only, no audio, ...
- network resources available
 - bandwidth and other QoS parameters

3

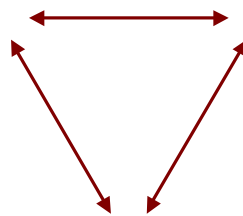
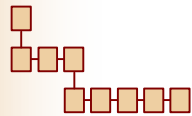
Problems with current transformation tools

- Current document transformation and style languages are insufficiently powerful
- They rely on flexibility of text:
re-flow, scrollbars, pagination, etc.
- They are "*template-based*" and thus cannot cater for wide variations in:
 - dynamic & media-centric content
 - device characteristics
 - user preferences

4

Design dependencies

Presentation structure



Style

abcdefghijkl

abcdefghijkl

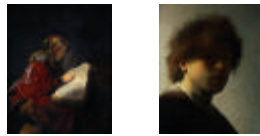
abcdefghijkl

ABCDEFGHIJK

abcdefghijkl

abcdefghijkl

Content

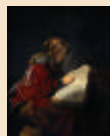


5

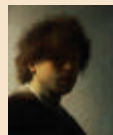
Presentation structure depends on content

Clair-obscur

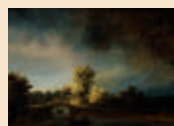
Caravaggists



1631



1628



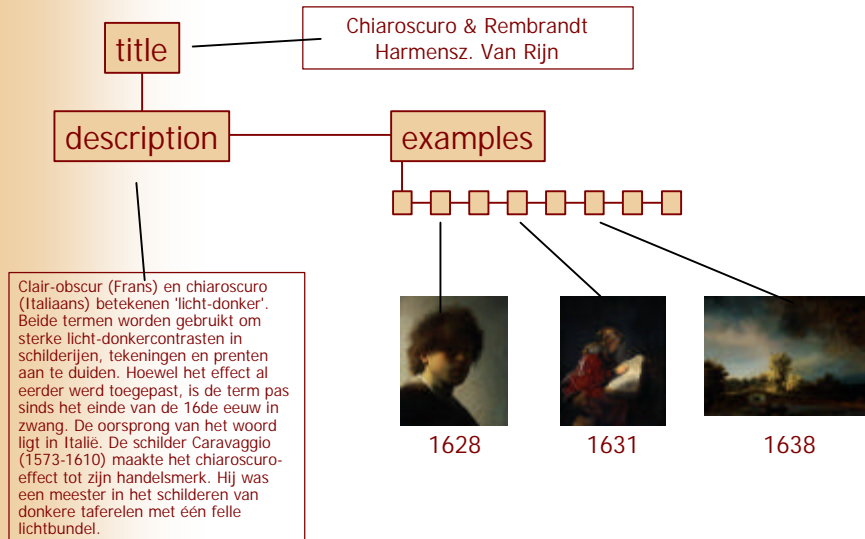
1638



Rembrandt

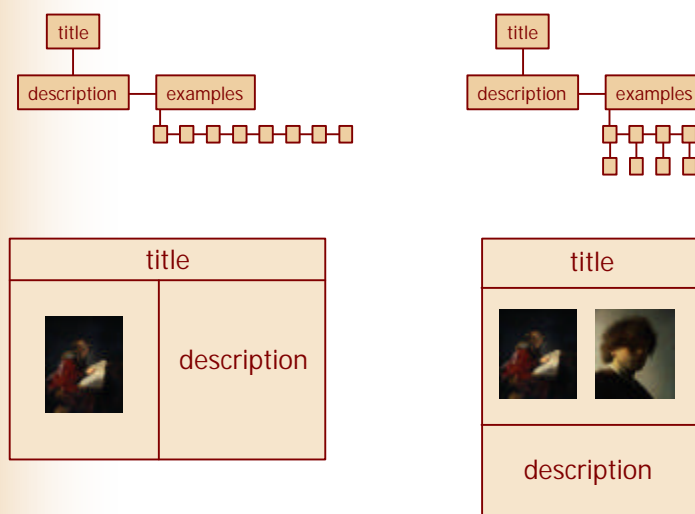
6

Presentation structure of example



7

Presentation Structure depends on Style



8

RealOne Player
genesi.ans.ov.nl/kozoonkucupers/akia/teledfom-process
1280x800 1:29 / 1:35

Chiaroscuro & Rembrandt Harmensz. van Rijn



Chiaroscuro
Clair-obscur (French) and chiaroscuro (Italian) both mean 'light-dark'. Both terms are used to describe strong contrast of light and dark shading in paintings, drawings and prints. Although the effect had already been used for many years, the term only came into fashion in the late sixteenth century. Originally, the word came from Italy. The painter Caravaggio (1573-1610) made chiaroscuro his trademark. He was a master at painting illuminated scenes in dark settings.

Demo

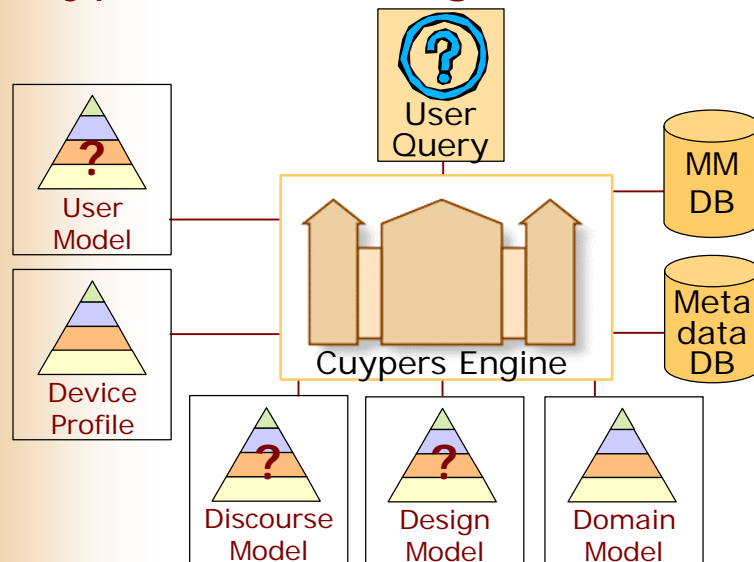
Self Portrait (1661)

9

Where are the Semantics?

10

Cuypers Knowledge Sources



11

Conclusions

- Generating multimedia presentations requires
 - powerful transformation tools
 - which allow design dependencies to be taken into account
- Semantic Web has the potential to
 - encode knowledge we use
 - reuse knowledge already available
- Cuypers system provides an experimentation platform
 - demo at stand 3002 at 16:00

12

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Environment (start date end 2002)
- NWO **NASH**
Networked Adaptive Structured Hypermedia