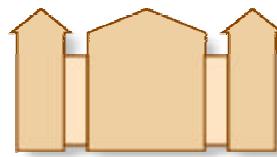


Smart Style on the Semantic Web

Lynda Hardman



CWI, Multimedia and Human-Computer Interaction
TU/e, Multimedia and Internet Technology

Google Search: Rembrandt chiaroscuro - Galeon

File Edit View Tab Settings Go Bookmarks Tools Help

Back Forward Reload Home Stop 150 http://www.google.com/search?q=Rembrandt+chiaroscuro

INS2 Absence CWI Intranet dblp.uni-trier Frankh W3C SYMM NL nieuws International news

Google and chiaroscuro < citeseer < Dictionary < WordNet < Bridge

Advanced Search Preferences Language Tools Search Tips

Google Search

Web Images Groups Directory News

Searched the web for **Rembrandt chiaroscuro**. Results 1 - 10 of about 2,490. Search took 0.19 sec

The Cuypers Multimedia Transformation Engine
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Vermeeer/Genre
paintings screendump Screendump (click to get full size version ...
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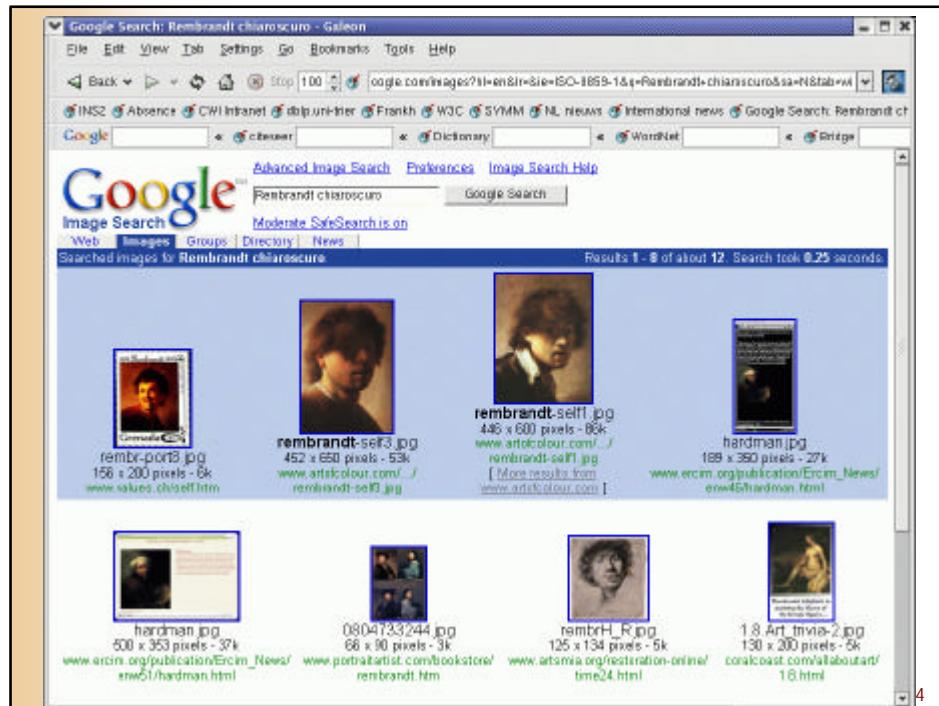
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3



One size doesn't fit all



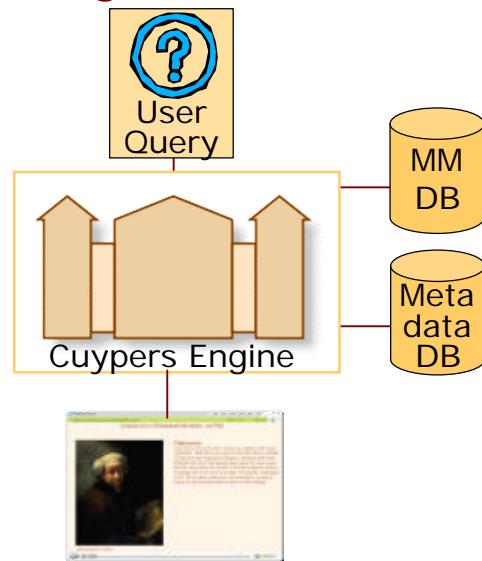
5

The problem

- Too many users need their own information
 - for their level of expertise
 - using appropriate media
 - in an appropriate style
 - displayed on their own device
- Multimedia information design is expensive
- There has to be some automation in the process

6

Cuypers Engine



7

RealOne Player
penitentes oil on copper/paper/panel selection process
Chiaroscuro & Rembrandt Harmensz. van Rijn

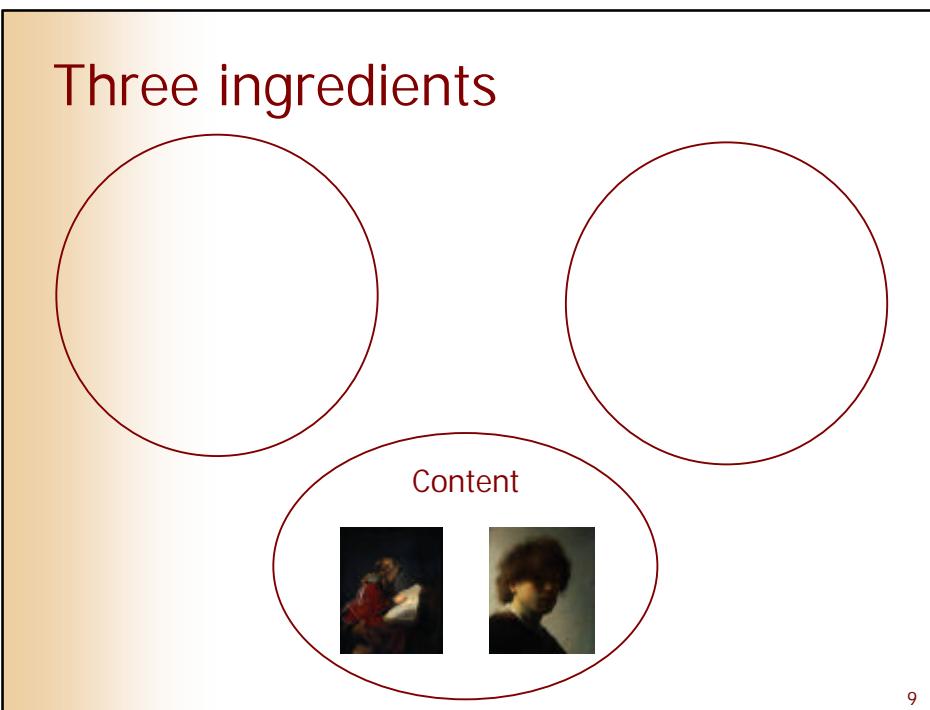


Chiaroscuro
Clair-obscur (French) and chiaroscuro (Italian) both mean 'light-dark'. Both terms are used to describe strong contrast of light and dark shading in paintings, drawings and prints. Although the effect had already been used for many years, the term only came into fashion in the late sixteenth 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)

8



Content of example



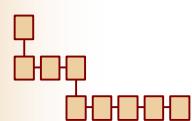
Clair-obscur (Frans) en chiaroscuro (Italiaans) betekenen 'licht donker'. Beide termen worden gebruikt om sterke licht-donkercontrasten in schilderijen, tekeningen en prenten aan te duiden. Hoewel het effect al eerder werd toegepast, is de term pas sinds het einde van de 16de eeuw in zwang. De oorsprong van het woord ligt in Italië. De schilder Caravaggio (1573-1610) maakte het chiaroscuro-effect tot zijn handelsmerk. Hij was een meester in het schilderen van donkere taferelen met één felle lichtbundel.



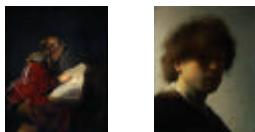
10

Three ingredients

Presentation
structure

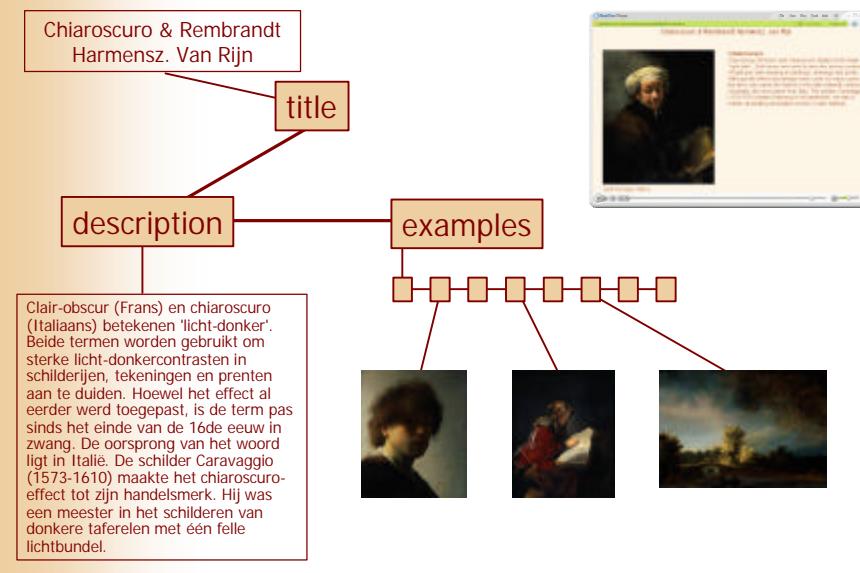


Content



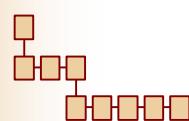
11

Presentation structure of example



Three ingredients

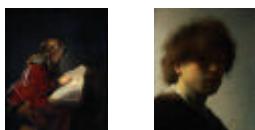
Presentation
structure



Aesthetics

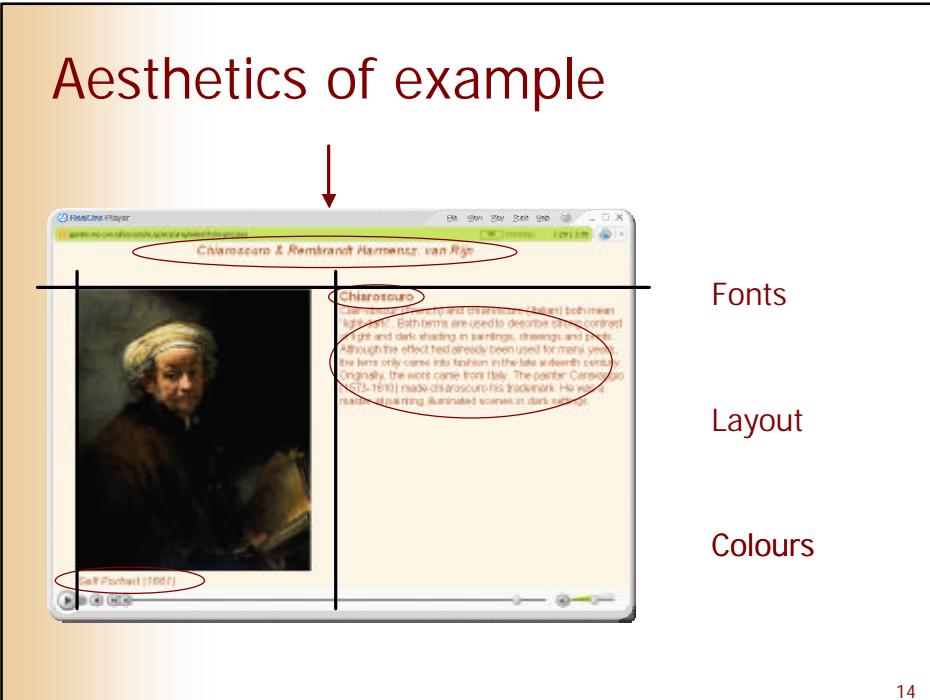
abcdefghijklm
abcdefghijklmn
ABCDEFGHIJK
abcdefghijklm
abcdefghijklmn

Content

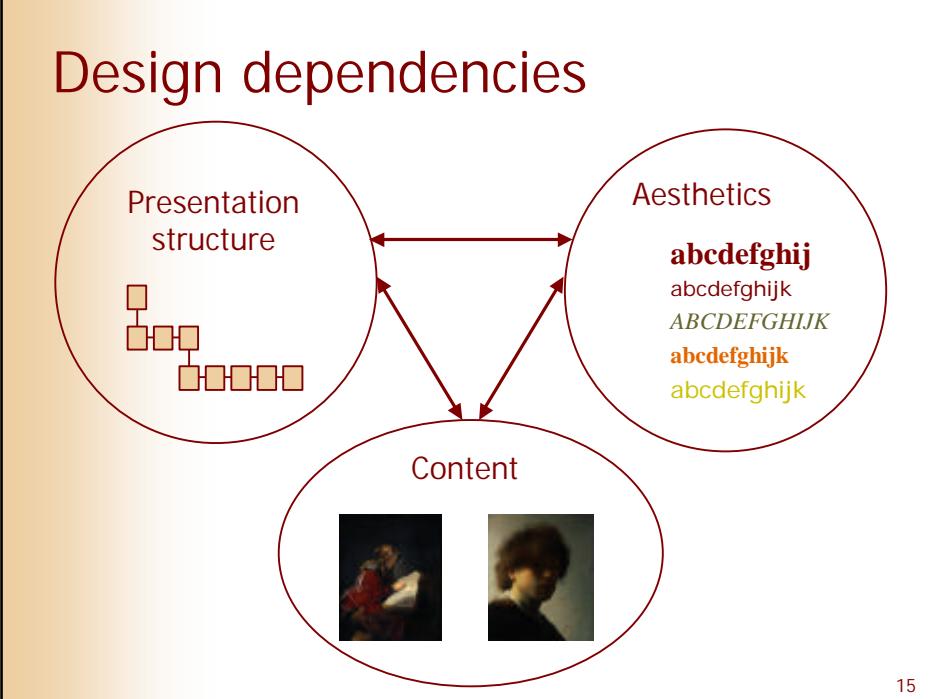


13

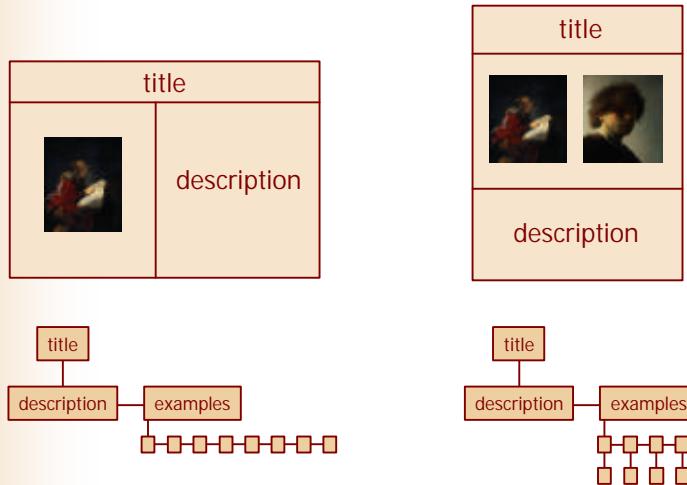
Aesthetics of example



Design dependencies



Presentation Structure depends on Layout



16

Style Depends on Content



17

Presentation structure depends on content



1631



1628



1638

Rembrandt



1623



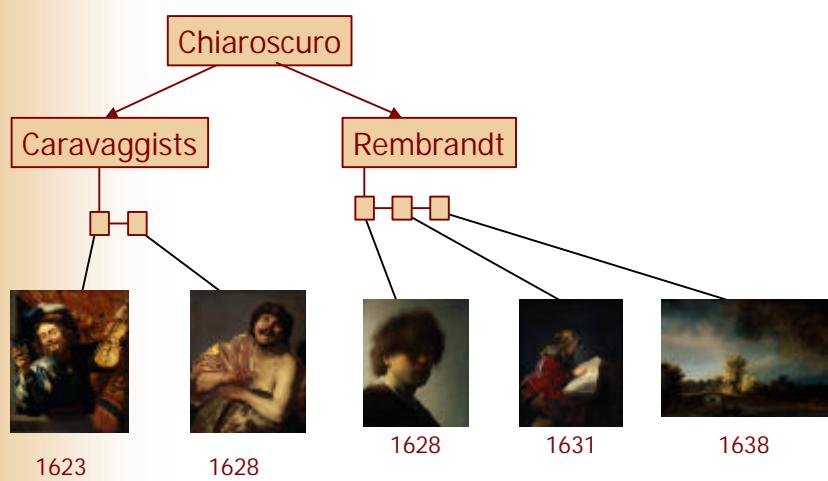
1628

Caravaggists

chiaroscuro

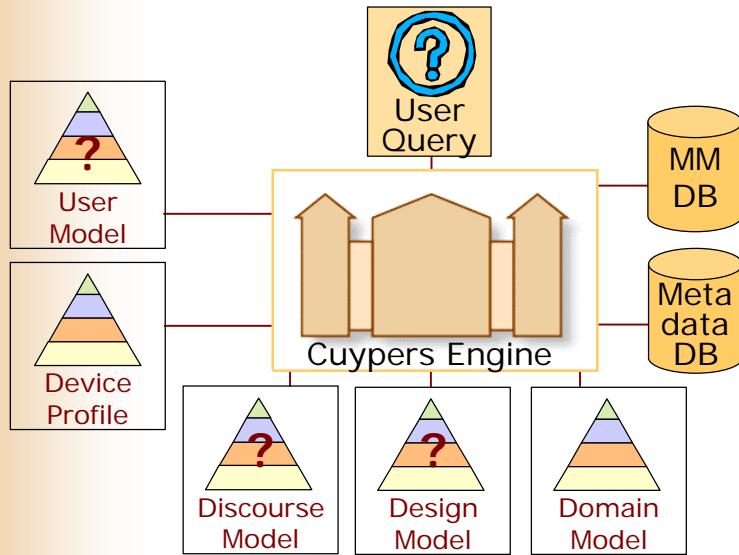
18

Example Presentation Structure

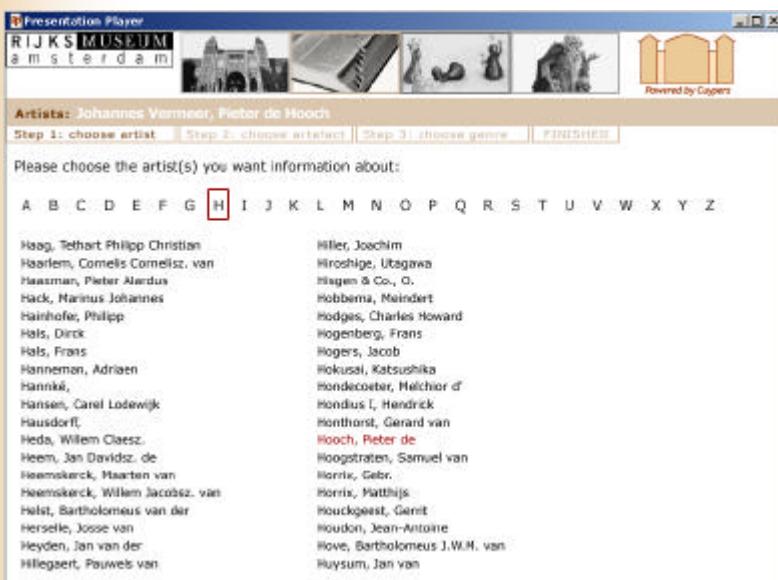


19

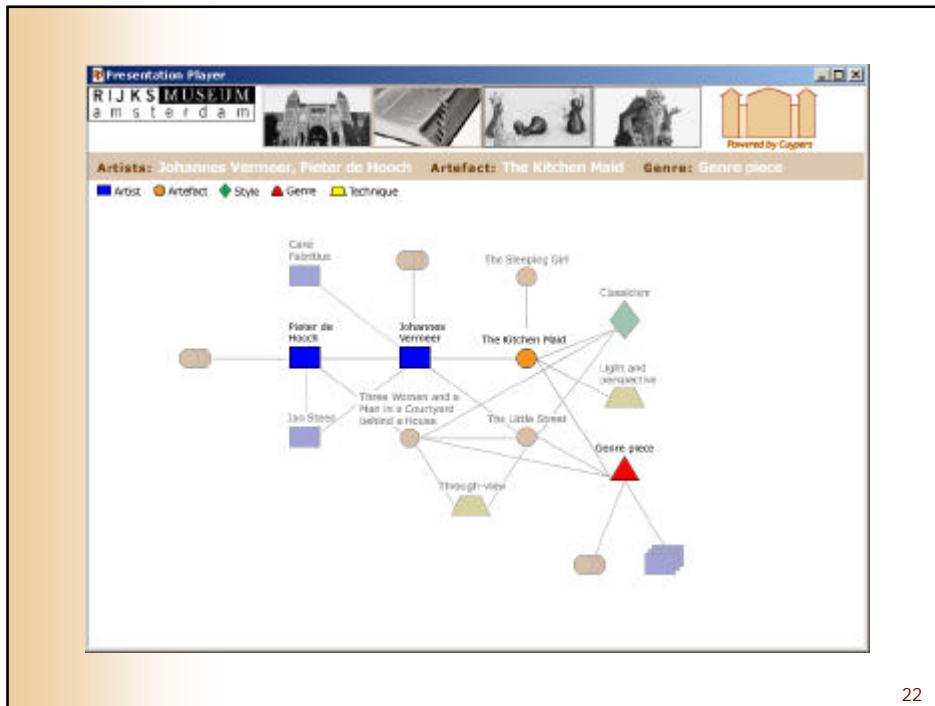
Cuypers Knowledge Sources



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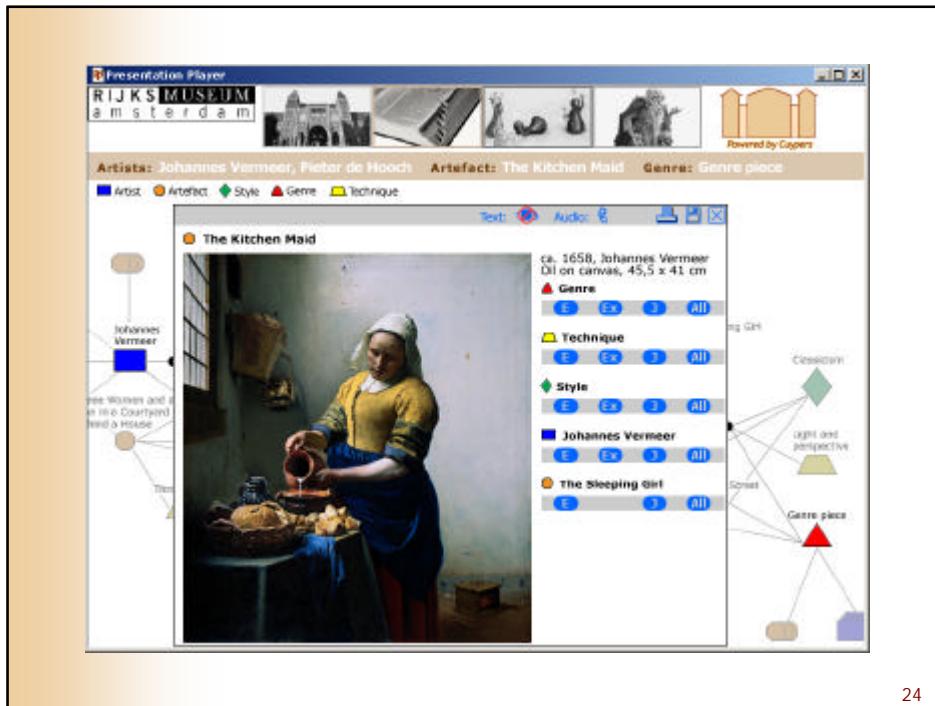
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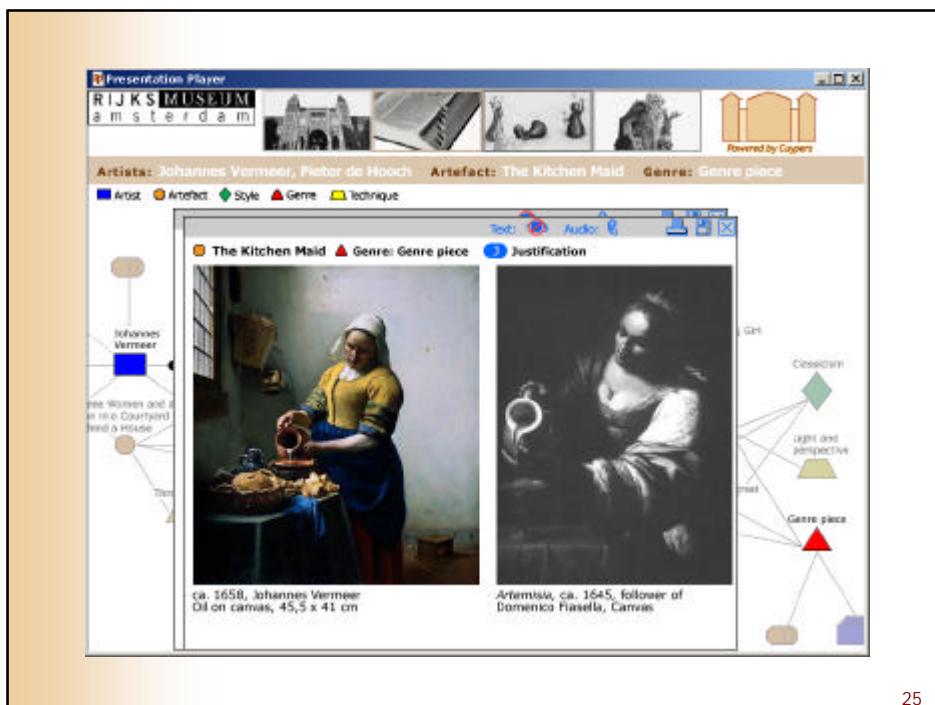
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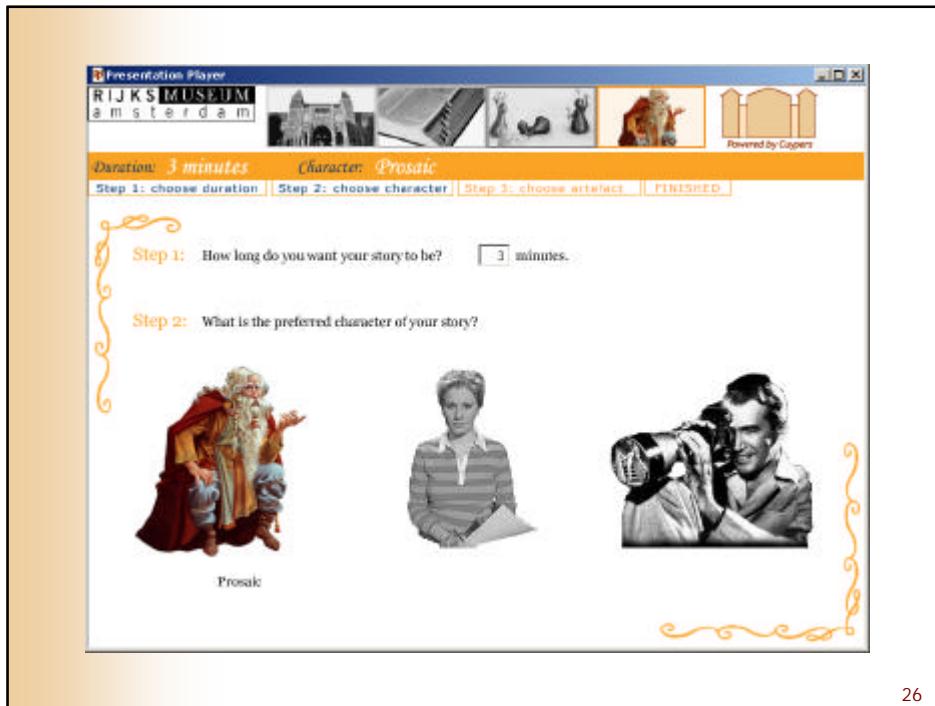
23



24



25



26

The screenshot shows the 'Presentation Player' window with the following details:

- Duration: 3 minutes
- Character: Prosaic
- Artifact: The Kitchen Maid

Progress bar: Step 1: choose duration (orange), Step 2: choose character (green), Step 3: choose artifact (blue), FINISHED (grey).

Step 3: Search by name of artist:

Artist selection menu: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z. The letter 'V' is highlighted with a yellow box.

Vermeer, Johannes

Artefacts in Rijksmuseum:

	"Little Street", ca 1658	The Kitchen Maid, ca 1660	Woman reading a Letter, 1662/1663	The Love Letters, 1669/1670

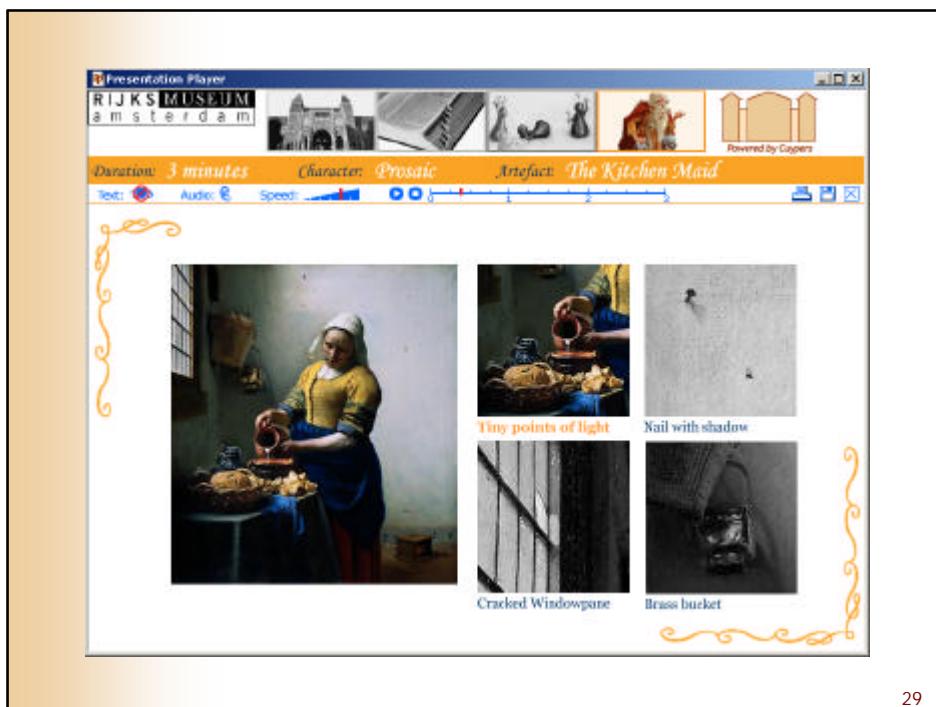
All other Artefacts in chronological orders:

	Soldier and a laughing Girl, ca 1658	View of Delft, 1660/1661	The Music Lesson, 1662-1663	Woman holding a Balance, 1666/1670	Young Woman with a Water Pitcher,

27



28



29

Conclusions

- Generating multimedia presentations requires
 - making design dependencies explicit
 - taking these dependencies into account
- Semantic Web has the potential to
 - encode knowledge we use
 - reuse knowledge already available
- Cuypers system provides an experimentation platform

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This research is supported by

- NWO I²RP ToKeN2000
Intelligent Information Retrieval and Presentation
- NWO CHIME ToKeN2000
Cultural Heritage in an Interactive Multimedia Environment
- NWO NASH
Networked Adaptive Structured Hypermedia
- Telematica Instituut Topia
- Images courtesy of Rijksmuseum, Amsterdam

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