Results of IMAGINATION

IMAGINATION provides a new and intuitive approach for image annotation and navigation through images.

It comprehends:

- ✓ A novel user interface paradigm to navigate through images.
- ✓ An infrastructure for the semantic annotation of images.
- ✓ Object recognition algorithms to automatically detect image segments containing interesting objects, persons, and their faces.
- ✓ Object identification and text mining algorithms to automatically generate semantic metadata by identifying relevant entities in the images.

IMAGINATION results will be demonstrated on two domains: images from World War I and images about current European politicians.

IMAGINATION duration: May 2006 until April 2009.

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disy Informationssysteme GmbH
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Italian State Library of modern and contemporary history
http://www.bsmc.it

Consortium

www.imagination-project.org

The IMAGINATION Project

IMAGINATION

Enabling the image web

Information Society Technologies
FP-034626

www.imagination-project.org

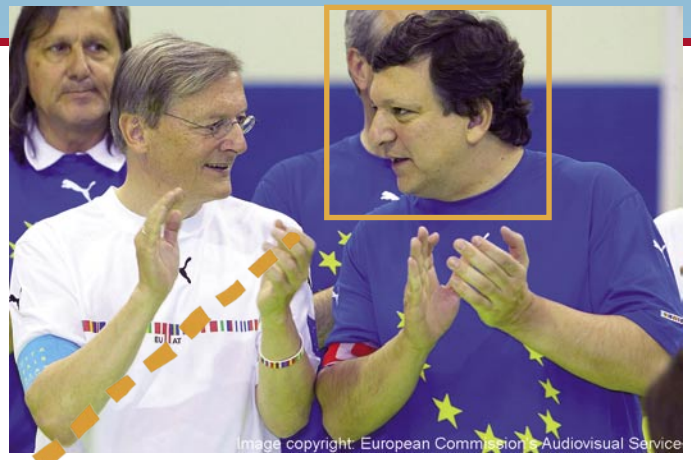
Image-based Navigation in Multimedia Archives

A picture is worth a thousand words

The potential of images is not fully exploited in current information systems. Especially the World Wide Web still best supports textual documents and links that contain textual information.

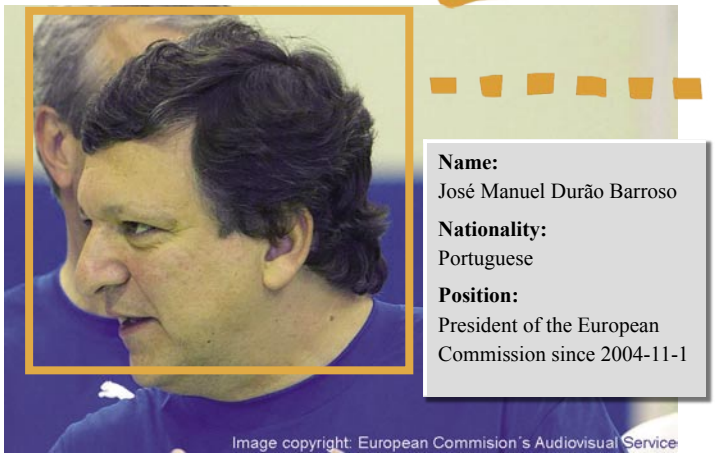
Navigation through images

IMAGINATION envisages a web-based system where users can receive meaningful contextual information about images and image parts, which makes images easier to understand and related information and images easier to find.



The image web

We envision an "image web", which can greatly enhance user experience in comparison of the "text web" of today. A user should be able to directly click on images and image parts to get detailed information about their contents.



- ✓ Recognition of persons and important parts of a picture
- ✓ Delivery of detailed information in the picture
- ✓ Provision of additional relevant images

Imagination

The main objective of **IMAGINATION** is to realize this "image web". As a result, the project will bring digital cultural and scientific resources closer to their users, by making user interaction image-based and context-aware.

The major instrument to provide context-sensitive, relevant information is the use of semantic metadata. To achieve the highest possible quality level of automatically generated metadata, results of text mining, object detection and object identification algorithms will be combined.

We expect that this combination will cause a synergy effect and will result in high-quality semantic metadata.