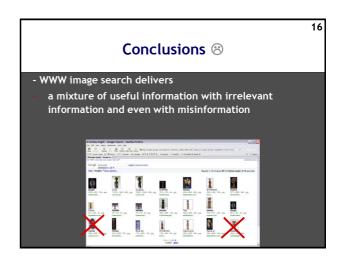
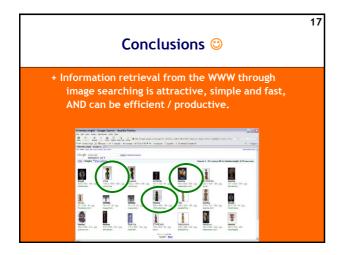


A report of a part of research work has been published:

P. Nieuwenhuysen
WWW image searching delivers high precision and no misinformation:
reality or ideal?
Issues in Informing Science and Information Technology,
Vol. 7, 2010, pp.109-131.
ISSN: On-line 1547-5867; CD 1547-5859; Print 1547-5840,
peer reviewed journal, available online free of charge from
http://iisit.org/Vol7/IISITv7p109-131Nieuwenhuysen770.pdf





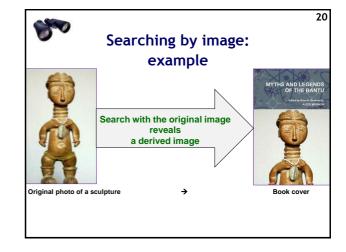


Searching by image:
introduction

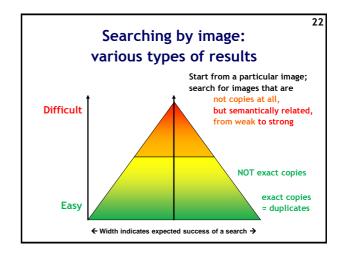
Besides searching for images with a query that consists of text, some systems allow us to use as query an image (file).

• Searching by example

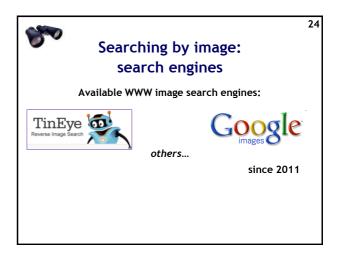
Reverse image searchSearching by image!

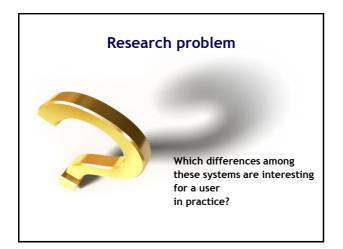


Searching by image: publication A report on this subject has been published: P. Nieuwenhuysen Search by Image through the WWW: an Additional Tool for Information Retrieval. Full text published in proceedings of the international conference on Asia-Pacific Library and Information Education and Practices = A-LIEP 2013 "Issues and challenges of the information professions in the digital age" held at Pullman Khon Kaen Raja Orchid Hotel, in Khon Kaen City, Isan, Thailand, 10-12 July 2013 [online] http://aliep2013.com/index.php/table-of-contents http://aliep2013.com/images/download/pdfs1/PaperNo41.pdf also available free of charge from http://www.vub.ac.be/BIBLIO/nieuwenhuysen/presentations







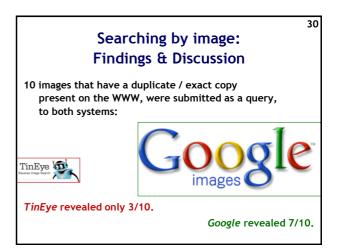


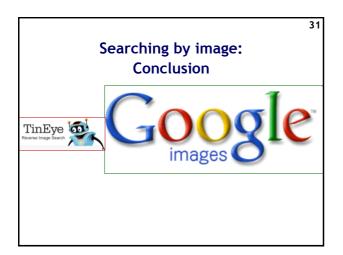


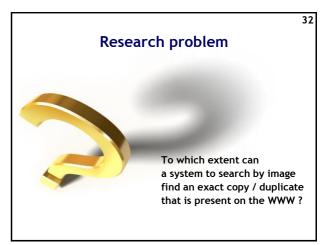


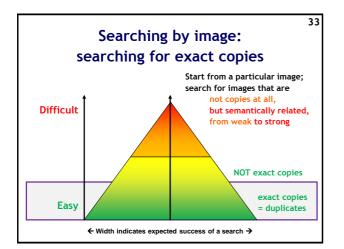




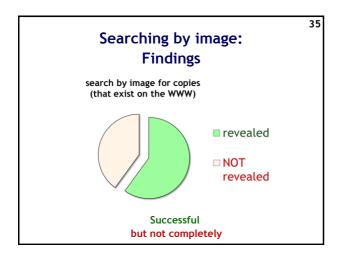


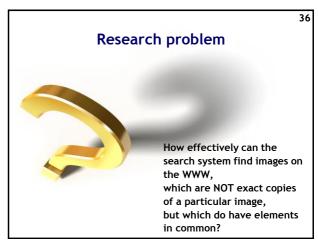


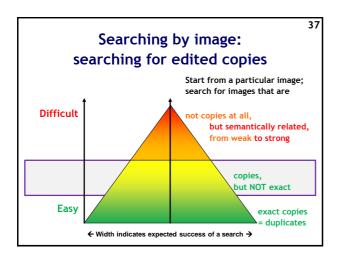


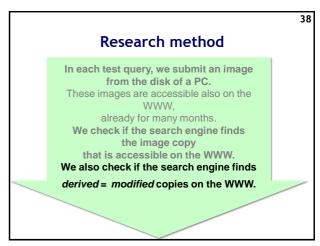




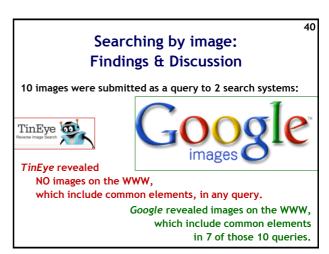




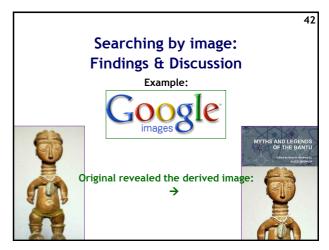






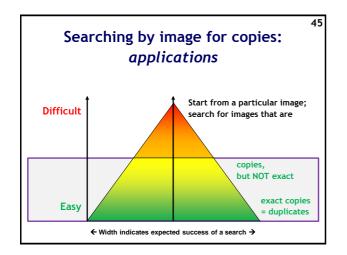












Applications of searching by image: Finding copies of your image

· We can start from a particular image that we have

Then we can search by image, to investigate if this image is used and made available from another WWW site.

Applications of searching by image: Finding copies of your image

- · This can be interesting in several ways:
 - »Copyright infringements / plagiarism can be discovered.
 - »In a more positive/constructive way: allows us to investigate the impact of some image! For example:

Curators or owners of a collection of objects can assess the impact and reuse of photos of the physical objects in their collection,

on a worldwide scale.

Applications of searching by image: Finding other versions of an interesting image

· We can start from an image that we consider as interesting, but that we did not create and that is perhaps not the original version and for which the creator/author is not indicated.

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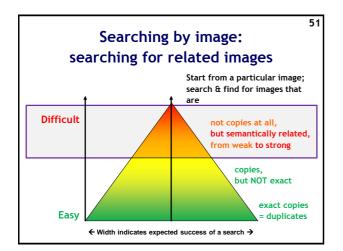
Applications of searching by image: Finding other versions of an interesting image

Then searching by that image may allow us to find

- »a more suitable version of that image
- »the creator/author
- »another version of the image and in this way also its location on some WWW page and site that can provide us with more information about the image.



Searching by image: Research problem Can search by image reveal images that are 'semantically' or 'theme' or 'content' related to the image that is submitted as a query?



Searching by image: publication

P. Nieuwenhuysen

Search by image through the Internet: applications and limitations.

In Libraries in the Transition Era: New Space - New Services - New Experience. The Proceedings of the Seventh Shanghai International Library Forum, organized by the Shanghai Library, in Shanghai Library, China, 9-11 July 2014 http://www.libnet.sh.cn/silf2014/english/index.htm

Shanghai: Shanghai Scientific and Technological Literature Press, 476 pp, ISBN 978-7-5439-6289-7. pp. 145-155. full text also available free of charge from

http://www.vub.ac.be/BIBLIO/nieuwenhuysen/presentations/

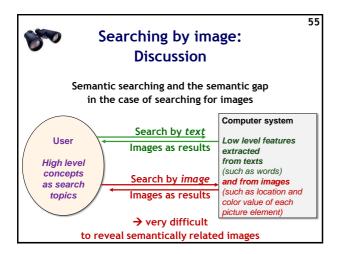


Searching by image: Findings in 2013

- 20 test queries by image file were executed.
- For each test, *Google* showed images that were visually similar in
 - »colors,
 - »shapes and/or
 - »textures.
- For 19 / 20 tests, NO image was found that is semantically related.
- = Only 1 / 20 test yielded a semantically related image.

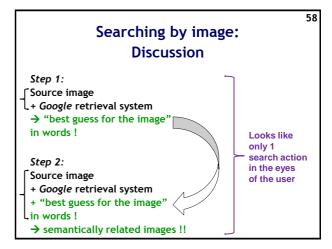
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ioogle









Searching by image:
Findings: Example in 2014

• Source image = famous photo of Kifwebe mask
• Renamed to x.jpg to remove any relation in the form of text to images on the WWW



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Applications of searching by image: Finding semantically similar images

- Starting from a source image, search by image can (even) be successful to find
 - »! a suitable description in words of the image!
 - »!! images that are semantically related !!







Searching by image: General conclusion

- Searching by image is evolving to a powerful, additional method to meet information needs.
- This method exploits the increasing number of images on the WWW plus the related texts.





Searching by image: General conclusion

To assist their clients, librarians and other information specialists can apply search by image to tackle some information problems.



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