



Multimedia Queries and Indexing



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Multimedia and Information Systems

Knowledge Media Institute

The Open University

http://kmi.open.ac.uk/mmis

Multimedia and Information Systems





Multimedia queries and indexing

- 1. What are multimedia queries?
- 2. Fingerprinting
- 3. Image search and indexing
- 4. Evaluation
- 5. Browsing, search and geography





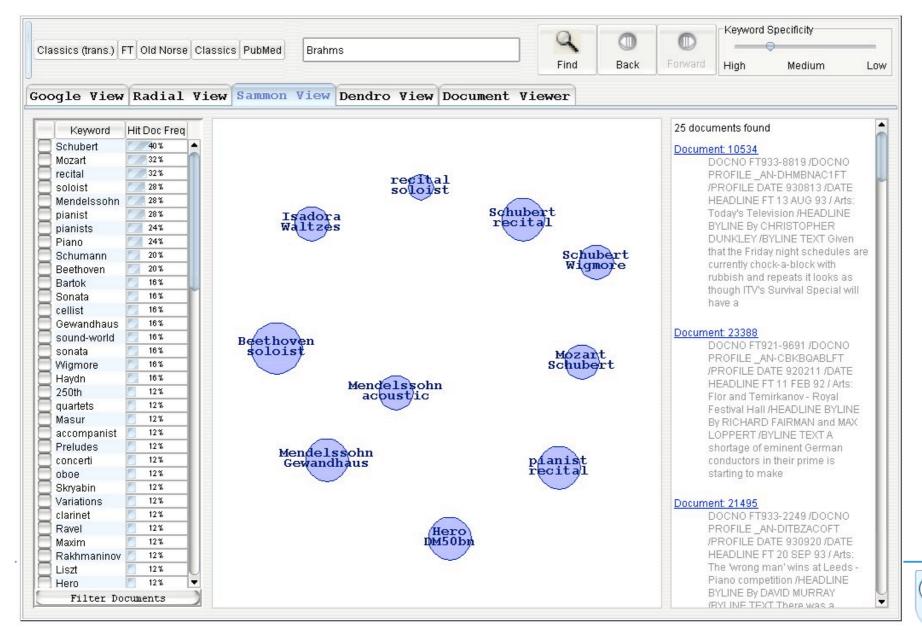
Alternatives to the list

How else could results be displayed?





Sammon maps

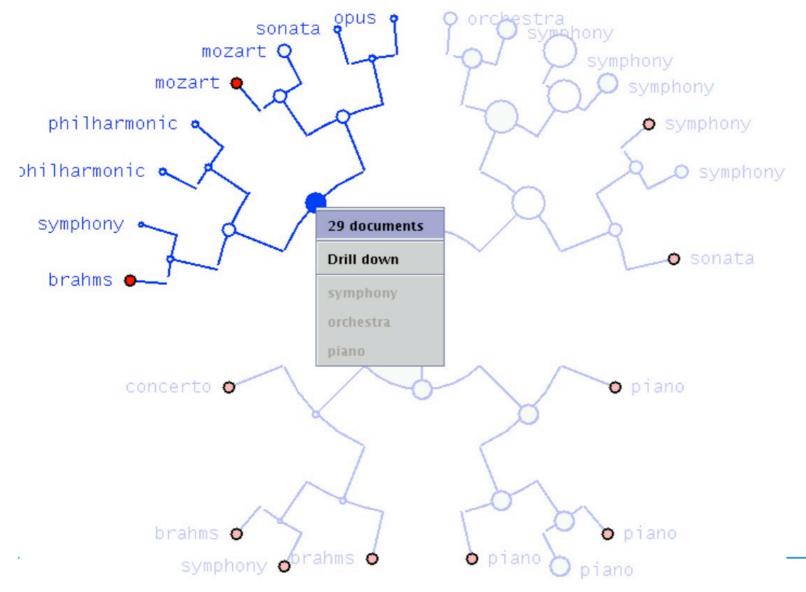








Dendro map

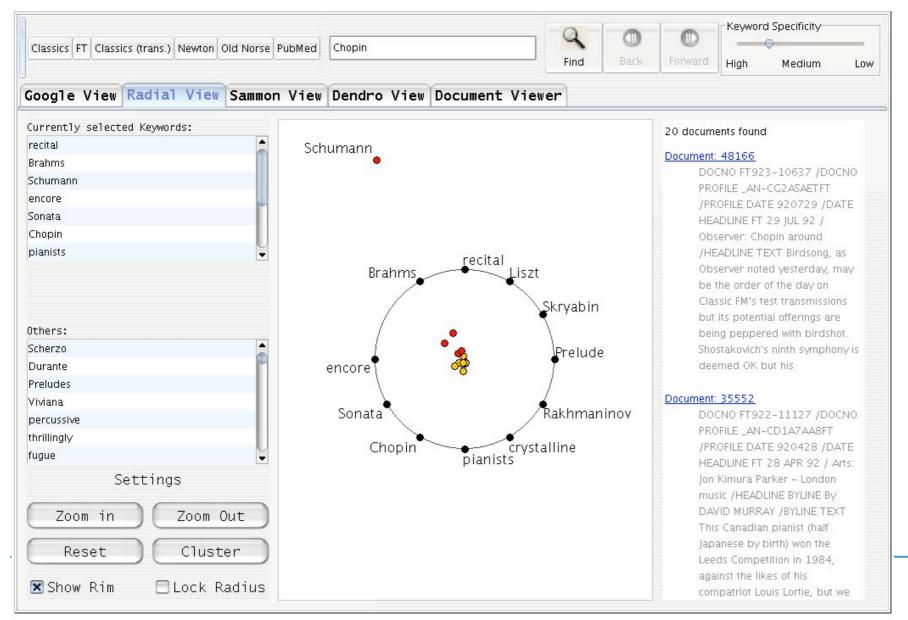








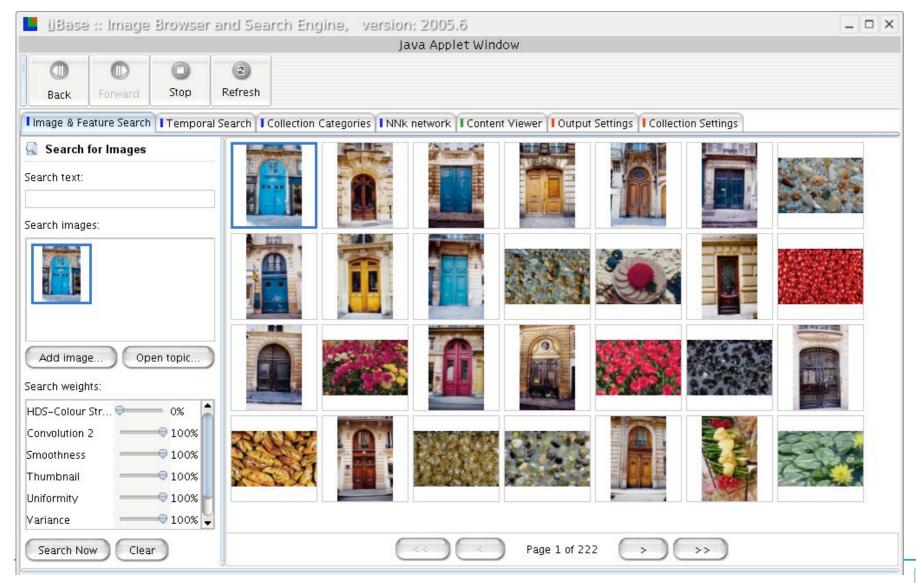
Radial







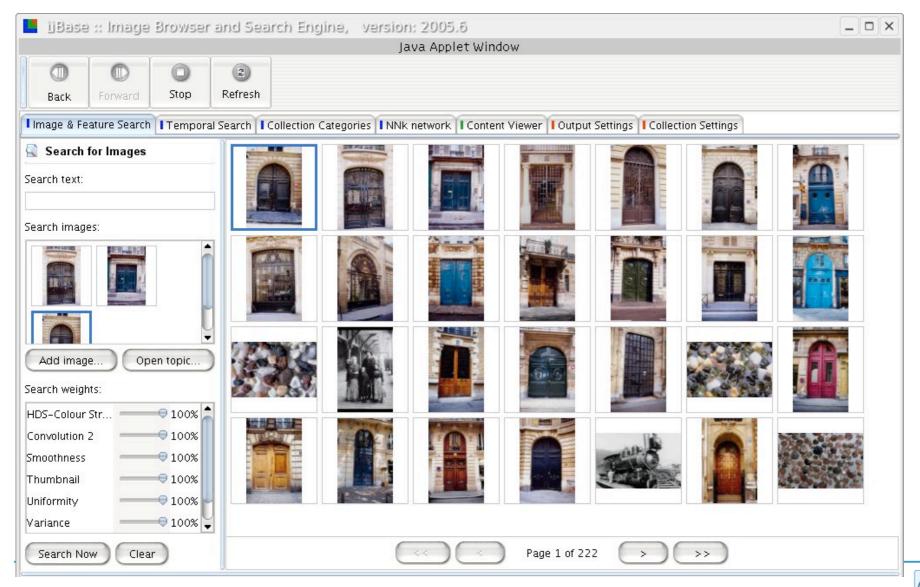
Query point moving

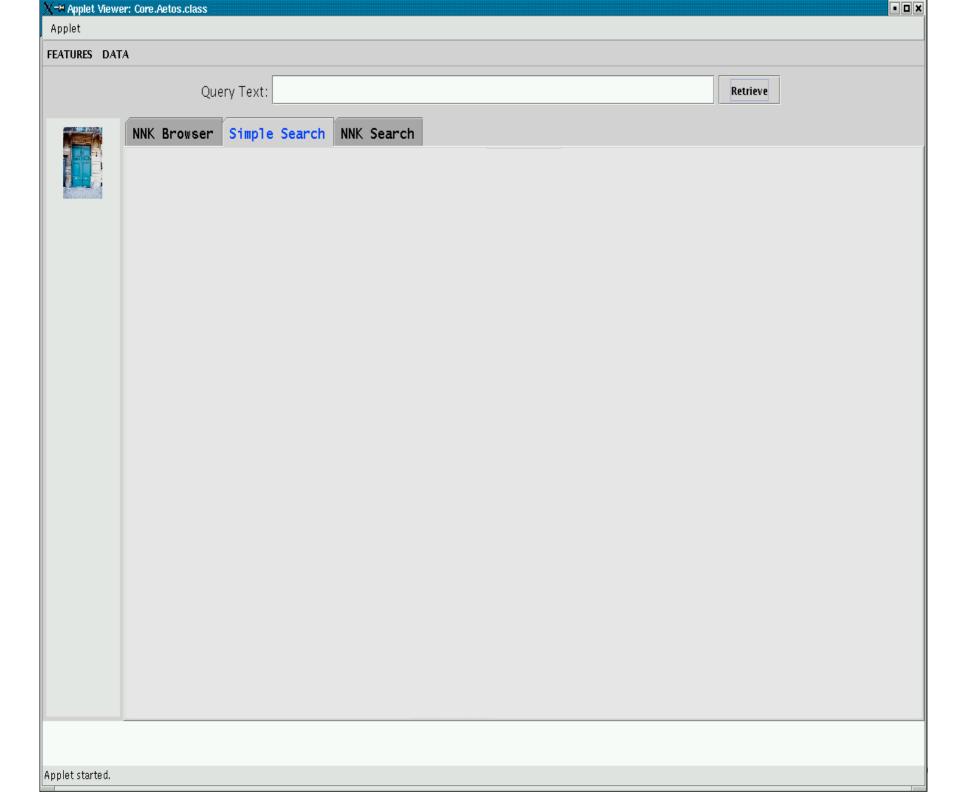


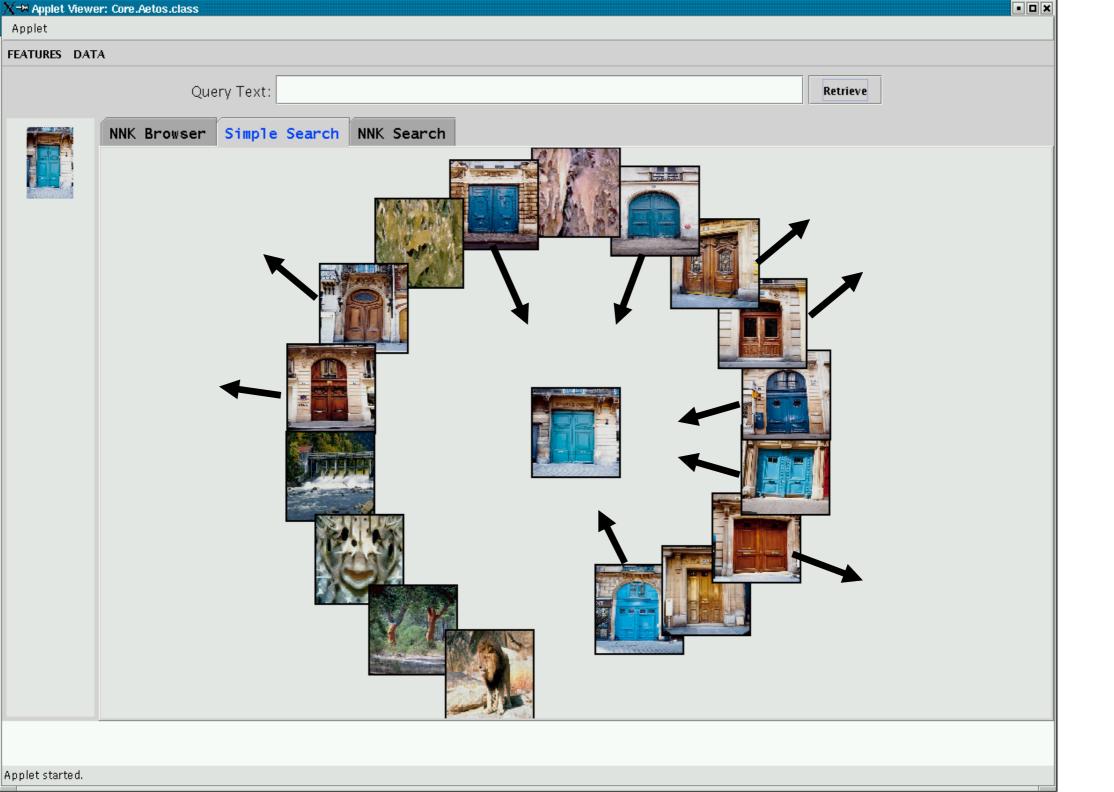


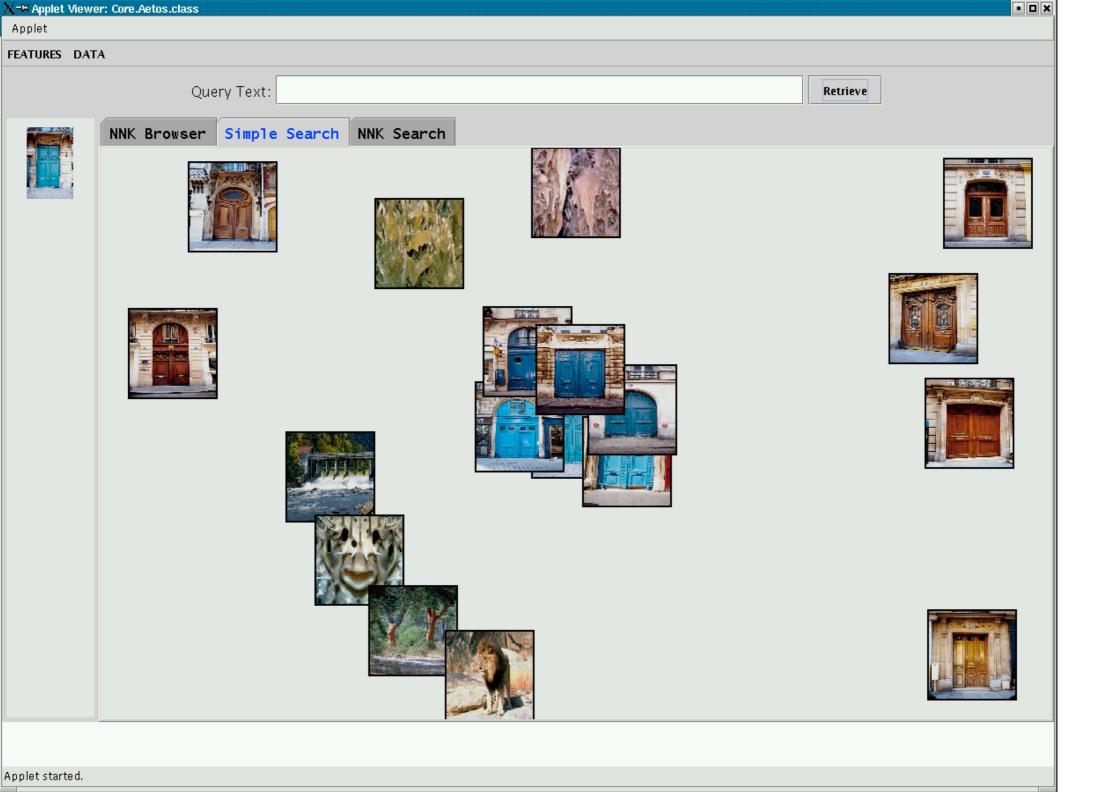


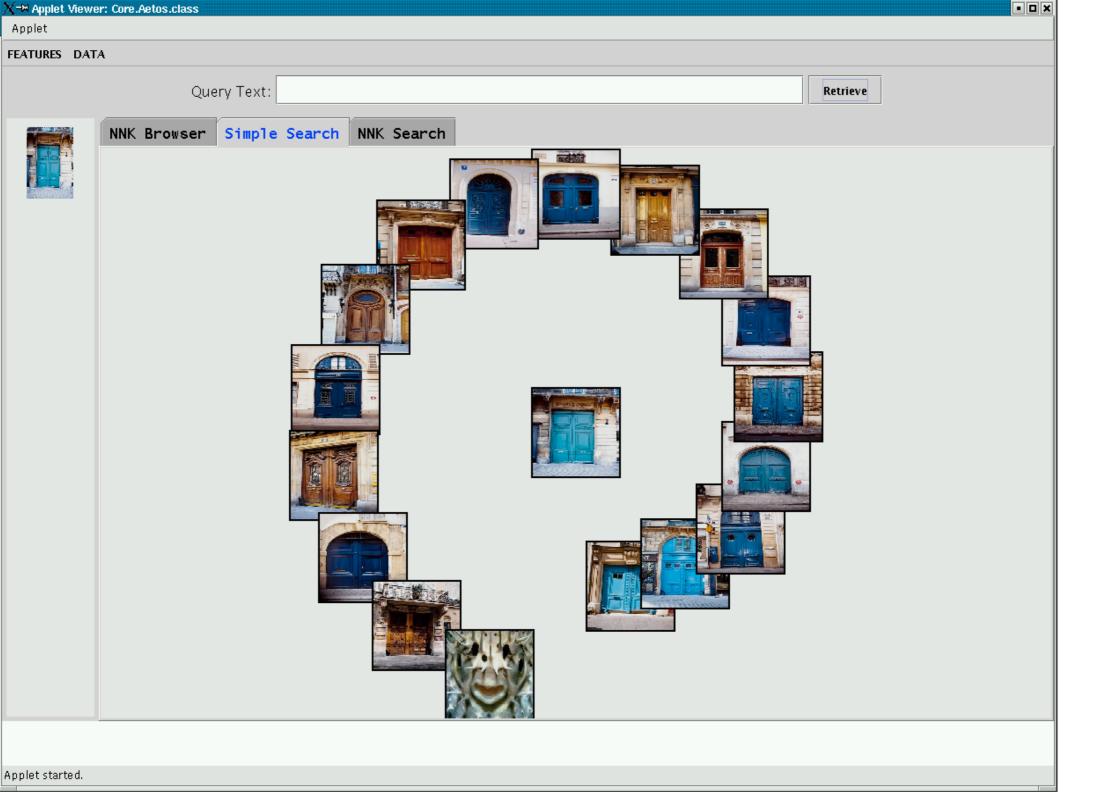
Query point moving







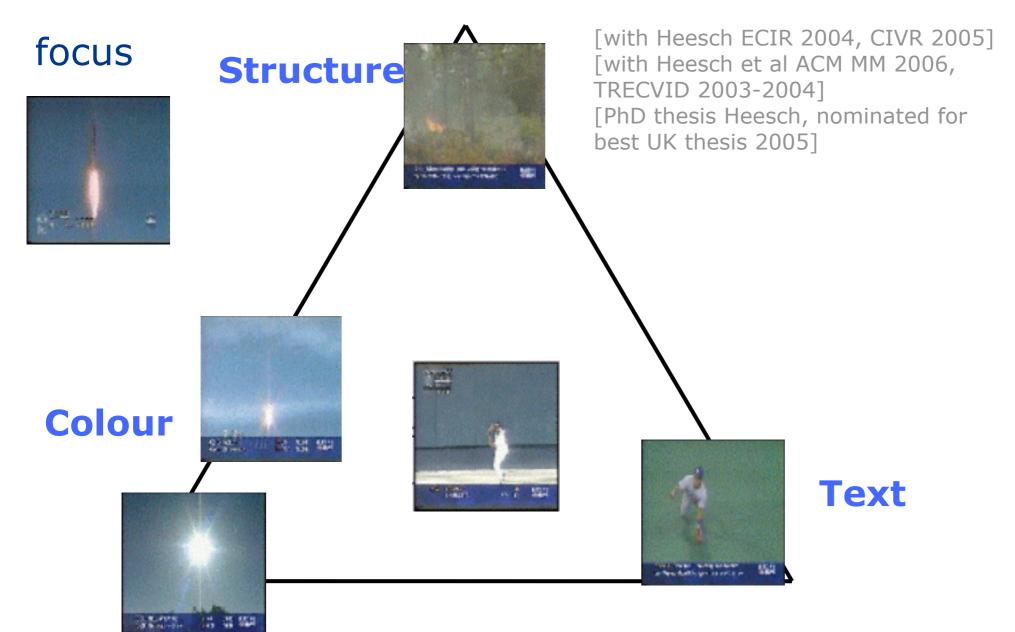








Connect similar objects







Browsing example

TRECVID topic 102: Find shots from behind the pitcher in a baseball game as he throws a ball that the batter swings at







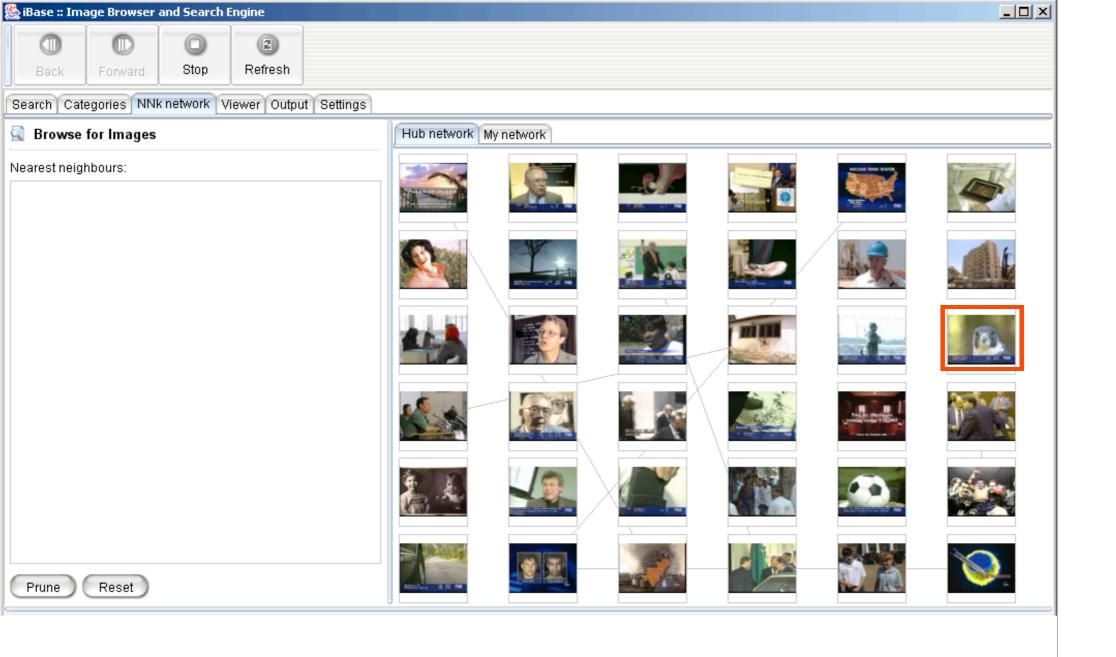




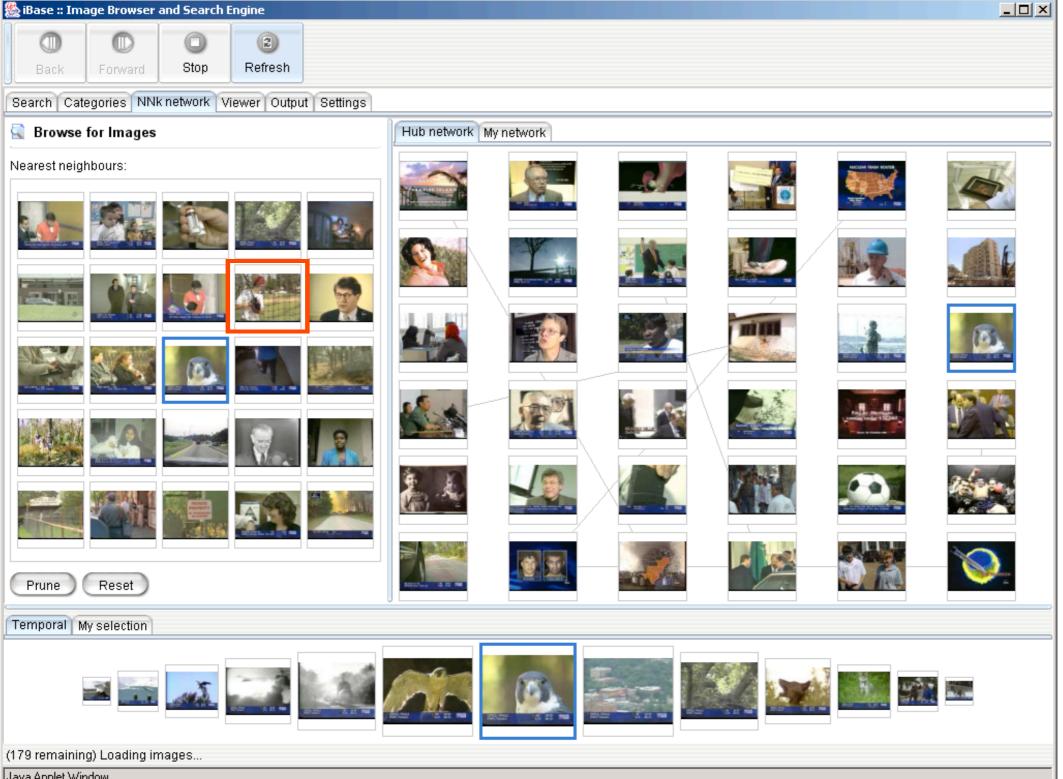


In your mind

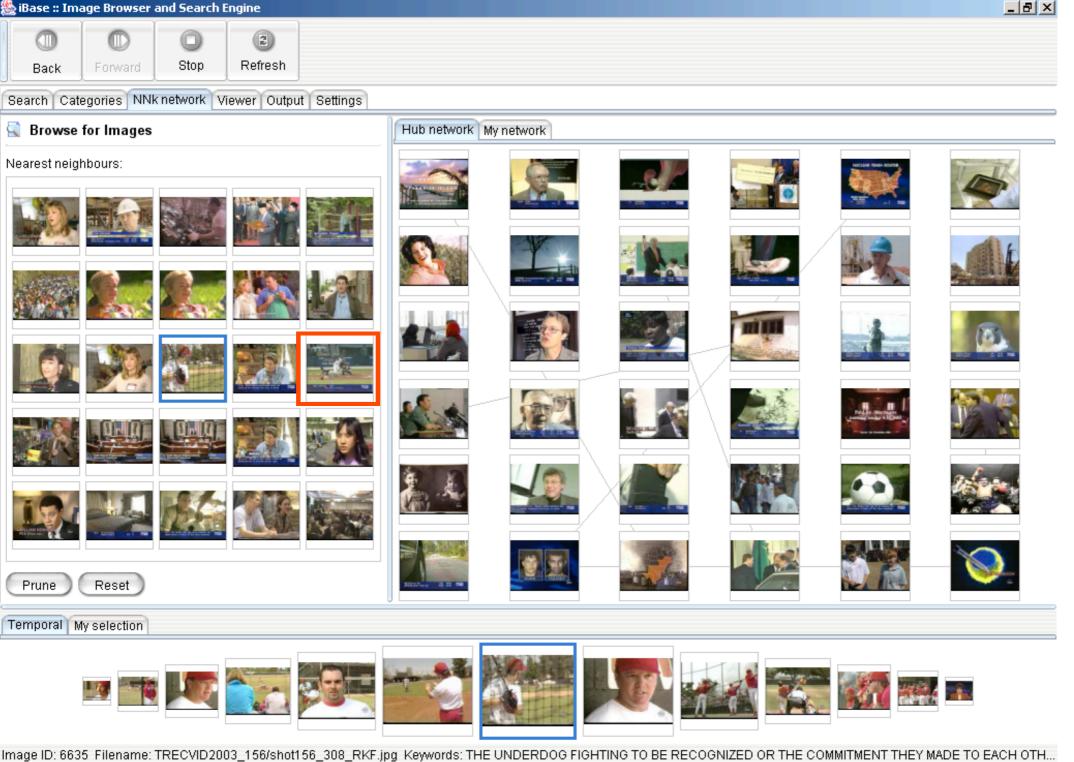


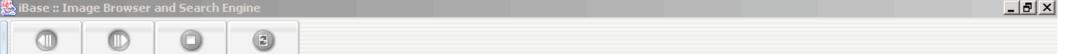


[Alexander May: SET award 2004: best use of IT – **national prize**] [dataset TRECVID 2003]



Java Applet Window





Search | Categories | NNk network | Viewer | Output | Settings

Stop

Refresh

Image Properties

Back

Image ID: 1263
Collection: Video
Resolution: 352 x 264

Filename: TRECVID2003_138/shot13

8_210_RKF.jpg

Keywords: FOR ONE WIN OVER THE S HARKS IN THE MAJORS THE BRAVES E

EAT THE



Temporal My selection

























Image ID: 1263 Filename: TRECVID2003_138/shot138_210_RKF.jpg Keywords: FOR ONE WIN OVER THE SHARKS IN THE MAJORS THE BRAVES BEAT THE





Empora.com



Similar items

Slide to sort by: Shape Similarity Colour Similarity =

Now Showing: 1 - 18 out of 34,486



Patrizia Pepe

Closed toe slip-ons

00.883

NOW £69.00



YOOX.COM

▶ PRODUCT DESCRIPTION

FILTER ITEMS BY

- ▶ COLOUR
- ▶ PRICE RANGE
- ► RETAILER



















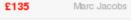


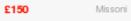
















LUCA VALENTINI £125



Previous | Next

























£50

Poetic Licence

RAS

£245 Celine £45

SWISH

863 Patrizia Pepe

Patrizia Pepe



CASADE





























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Similar items

Slide to sort by: Colour Similarity Shape Similarity

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00.883

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YOOX.COM

▶ PRODUCT DESCRIPTION

FILTER ITEMS BY

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- ▶ RETAILER



£101



£149

VOLTA





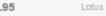












Previous | Next

feedback















£29.99

DANIELE ANCARANI

Firetrap

083 Fly London £35

Gola

£484 Cesare Paciotti

£35



Office

Jones Bootmaker











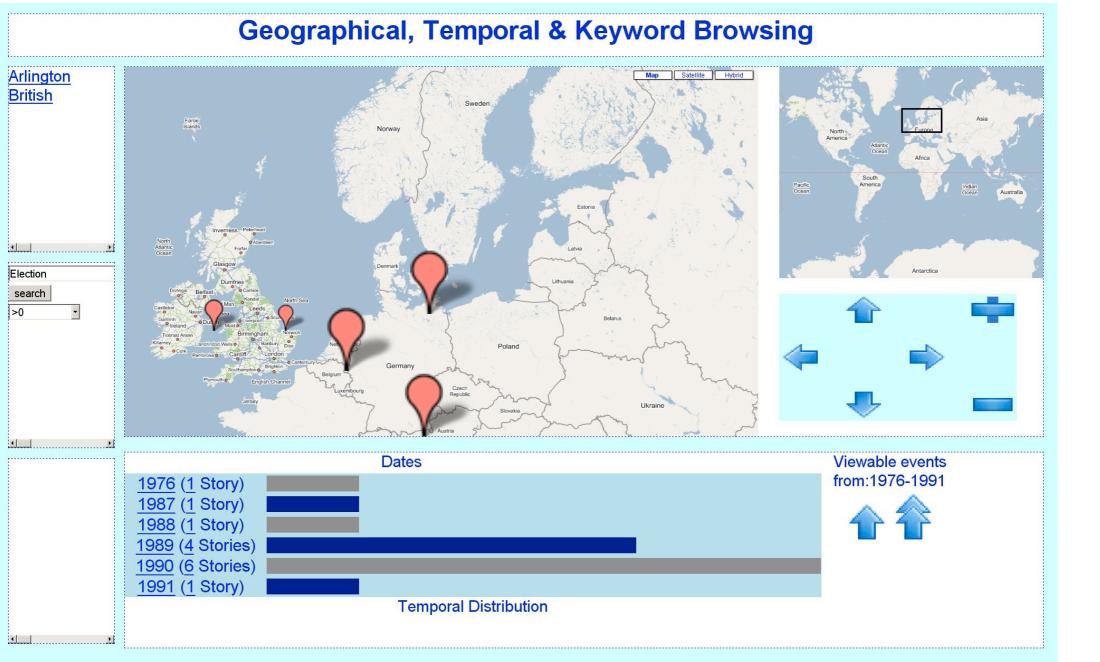








Geotemporal search



608

JAPAN

RUSSIA

PACIFIC

OCEAN

LAS VEGAS

AH

NEBRASKA

KANSAS CITY

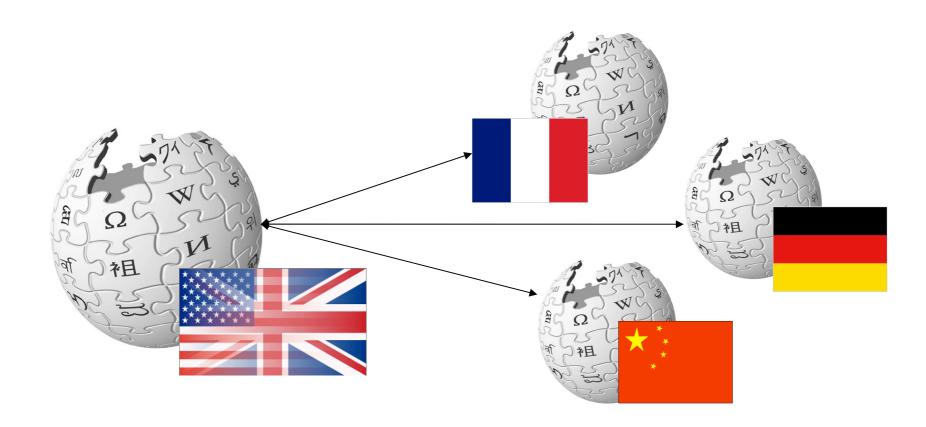
JERSEY

HUDSON

ZIVER



Wikipedia



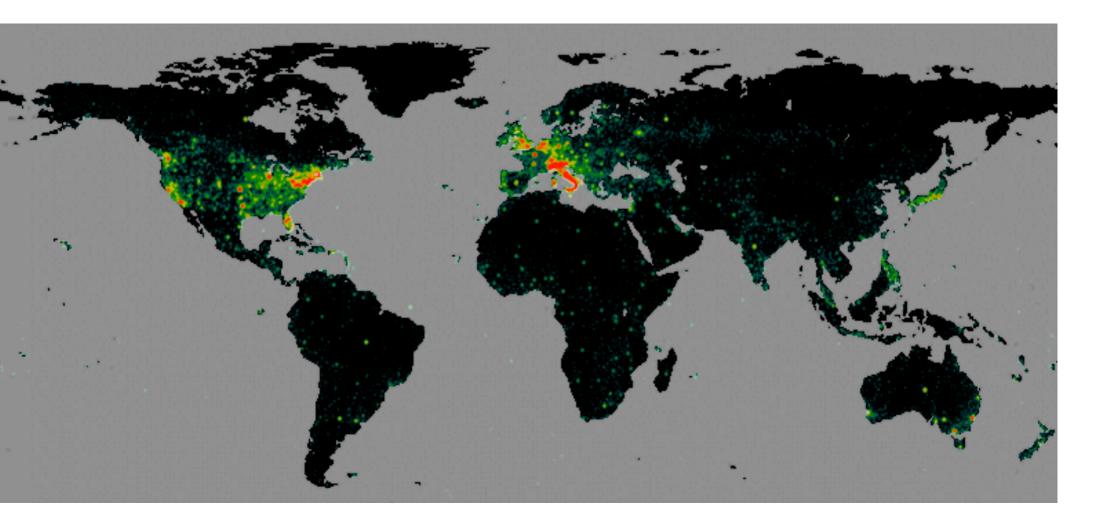
[Logo trademark and © by Wikimedia Foundation, Inc]

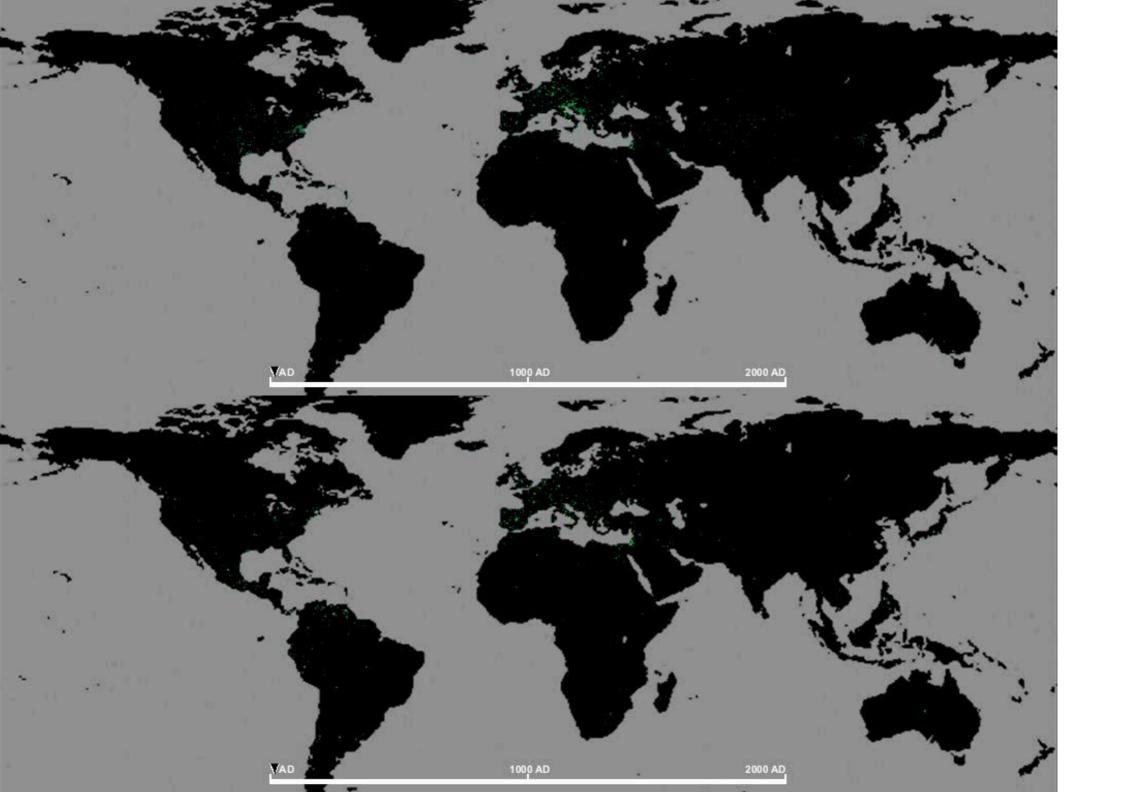






English language

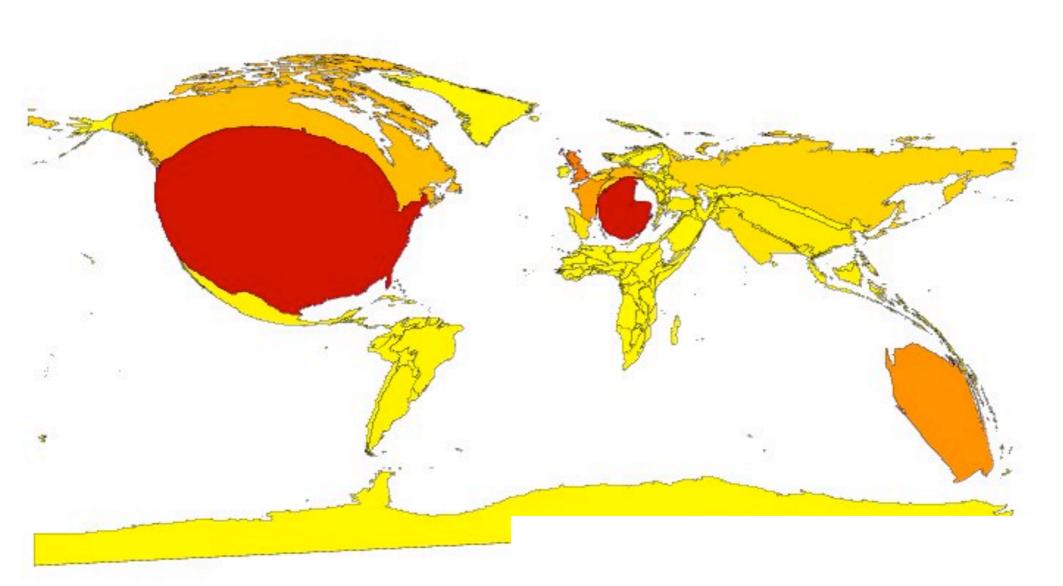








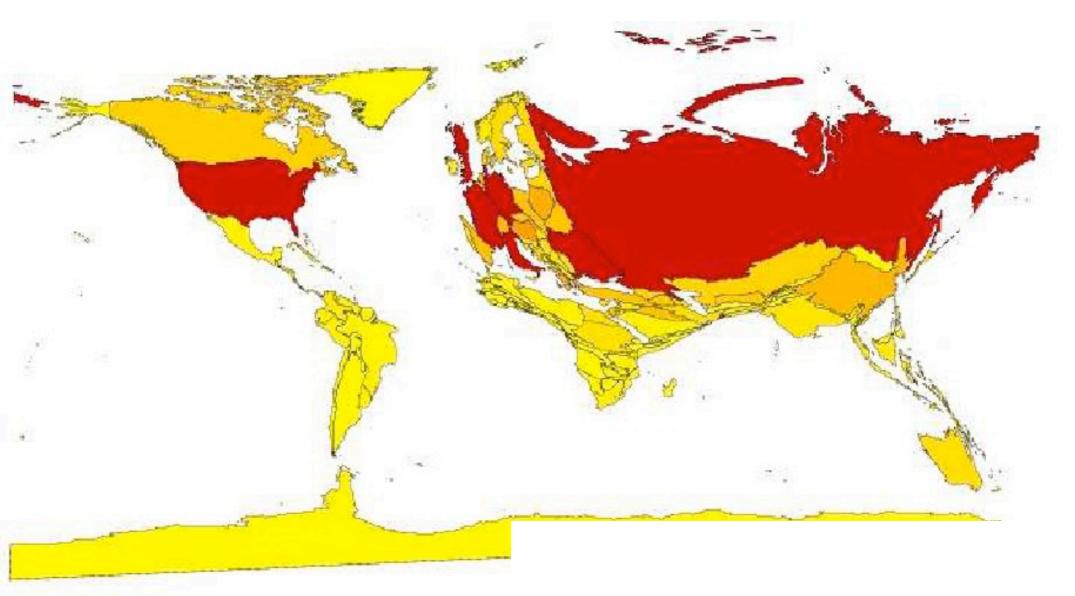
English







Russian

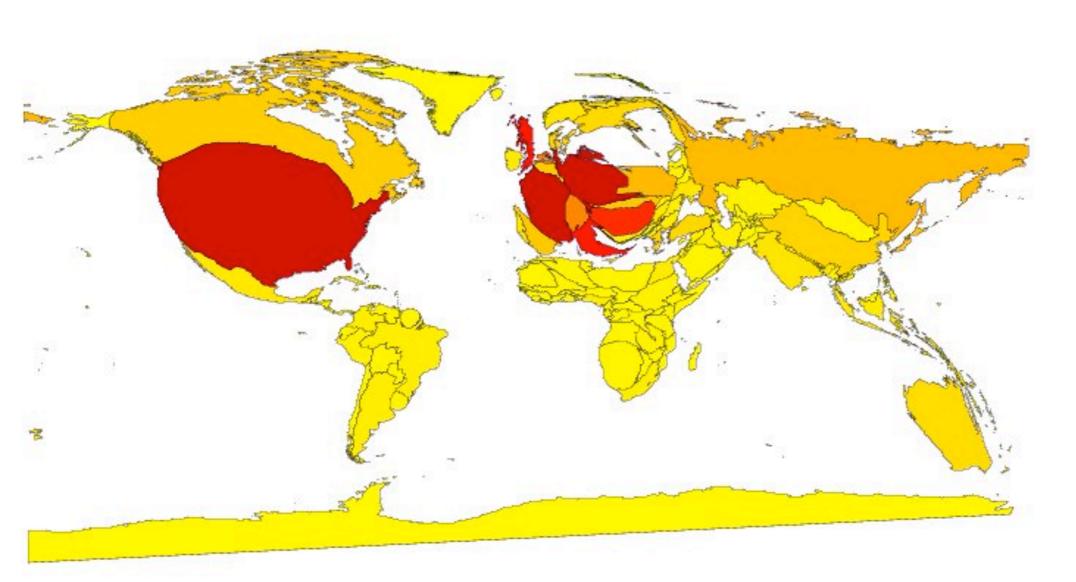


[with Overell, GIR 2007; MMKM 2008]





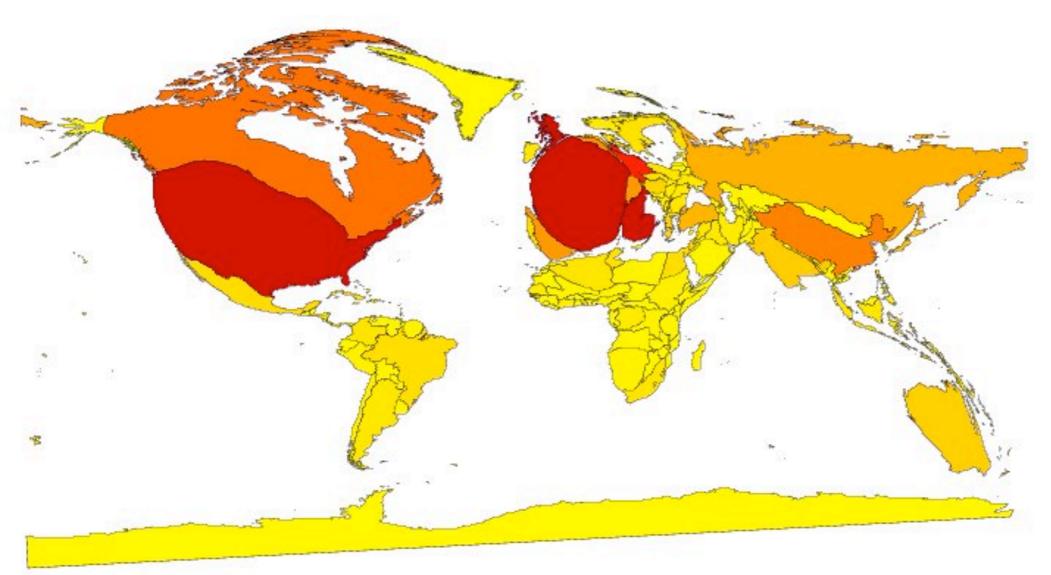
German







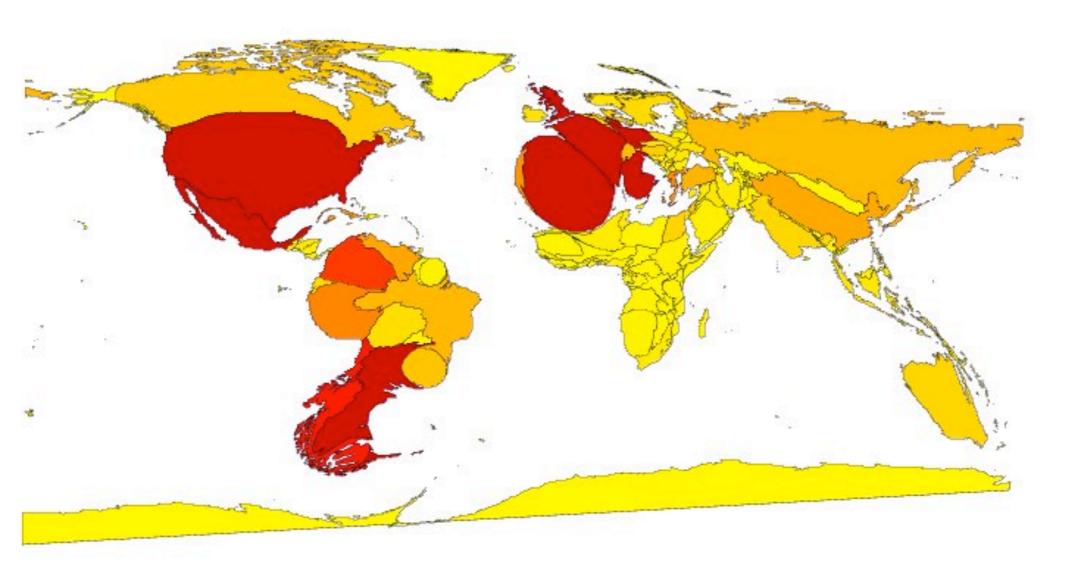
French







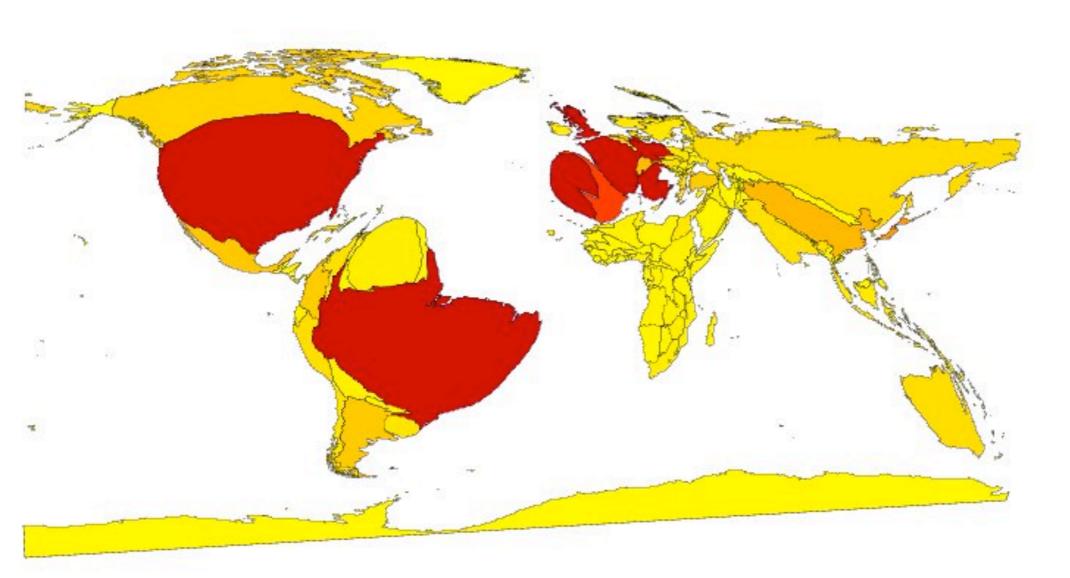
Spanish







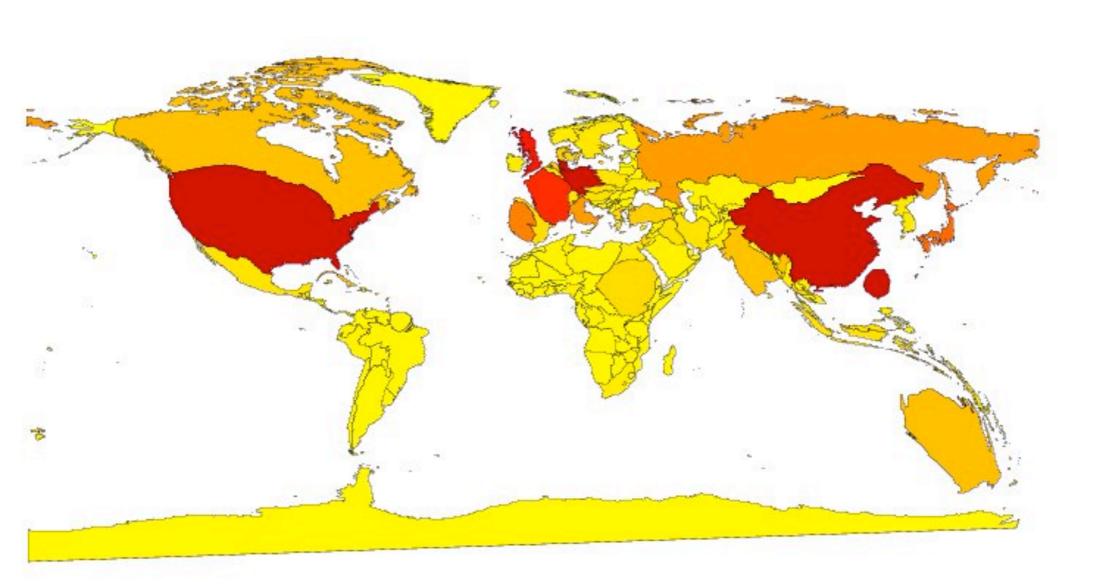
Portugese







Chinese







Recap: Multimedia queries and indexing

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Feedback

- Please fill in the feedback form
- I want to know what worked (and what didn't!)