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"Interactive" Undergraduate Students UNIPD at iCLEF 2008

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Outline

□ Aim

Users

Questionnaires

■ Log analysis

Conclusions

UNIPD...and the "Others"

- ☐ This study aims at finding different behaviors between two groups
 - Students of UNIPD
 - All the other participants to the Flickling game
- In particular
 - O Do students who study languages use the Flickling interface in a different way?
 - O Do students have the same difficulties in finding/not finding images if compared to other users?
- How can we "see" the differences?
 - Questionnaires
 - O Log analysis

How to convince students...

- ...of the Faculty of Humanities of the University of Padua
 - O Linguistic and Modern Cultures
 - **○** Languages for Cultural Mediation
- How to motivate students?
 - O Give them an extra point to the exam (and they can find million of images in any language)
- However, very strict rules
 - O Cheating is not allowed
 - O Play as many times as you like, but in a different group!
- ☐ 60 students participated in the experiment



A language for each user...

☐ Linguistic skills

- Mother tongue
 - Italian (mostly)
 - but also many students from Eastern European countries
- Main language studied
 - English or Spanish
- Second and third language studied
 - German, French, Portuguese
 - but also some other choices, such as Russian, Romanian

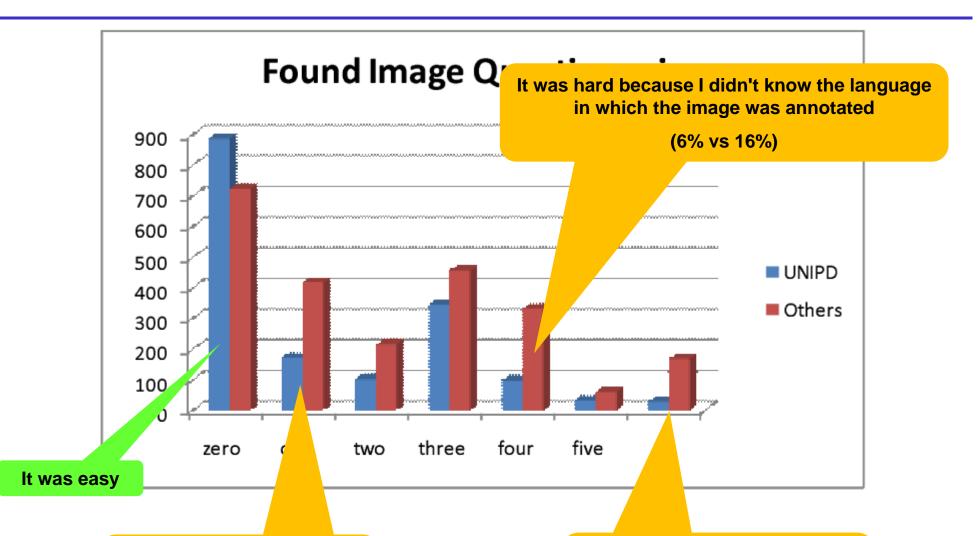


A questionnaire for each image...and more

- ☐ During the Flickling game, questionnaires are shown:
 - at the end of the search of each image
 - the found image questionnaire
 - the give up questionnaire
 - after a certain number of images:
 - the overall questionnaire
- How many questionnaires?
 - the found image questionnaire
 - 1,607 UNIPD
 - 1,993 others
 - the give up questionnaire
 - **479 UNIPD**
 - 516 others
 - overall questionnaire
 - 27 + 17 UNIPD
 - 26 others



Found what?

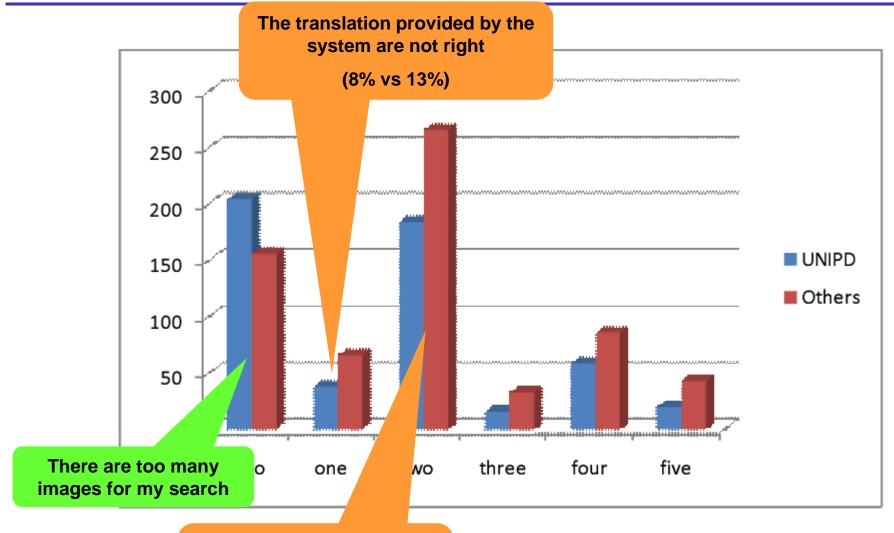


T. Mandl et al.

It was hard because of the size of the image set (10% vs 20%) It was hard because
I needed to translate the query
(2% vs 10%)



Don't give up!



Γ. Mandl et al.

I can't find suitable keywords for this image

(38% vs 52%)

Overall Questionnaire

- ☐ 27 single choices questions plus 2 open questions
 - Single choices with graded preferences
 - O Likert scale
 - t-test, alpha = 5%
- Statistically significant differences were
 - O "the search task you performed was interesting"
 - more interesting for UNIPD
 - "Which, in your opinion, are the most challenging aspects of the task? Handling multiple target languages at the same time"
 - strongly agreement for the others (there is a tendency, not a significan difference)
 - "Which interface facilities did you miss? The possibility to search according to visual features of the images"
 - strongly agreement for the others



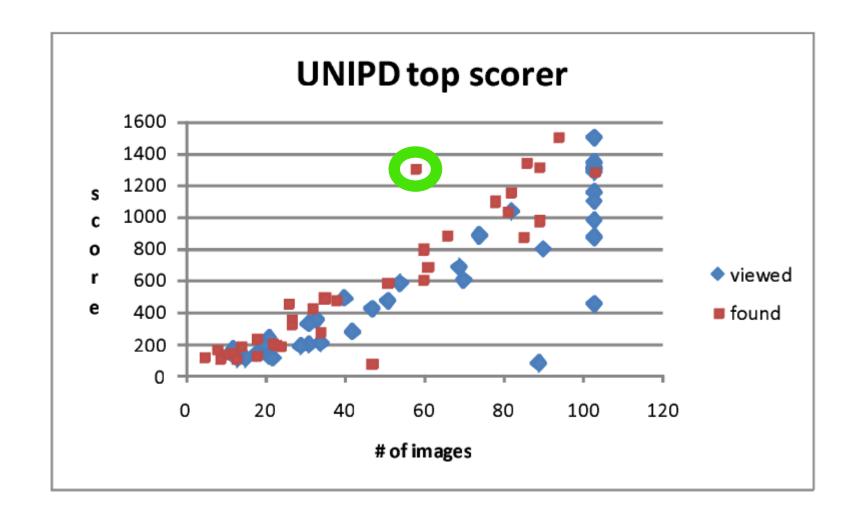
Log analysis

- ☐ The log file recorded actions from April 24th 2008 until June 16th 2008 for a total of 1,483,806 recorded actions.
 - O For the purpose of the analysis and for a more convenient management, log was loaded into PostgreSQL database.
- ☐ Found or skipped?
- ☐ Hints and clues

■ Monolingual or multilingual?

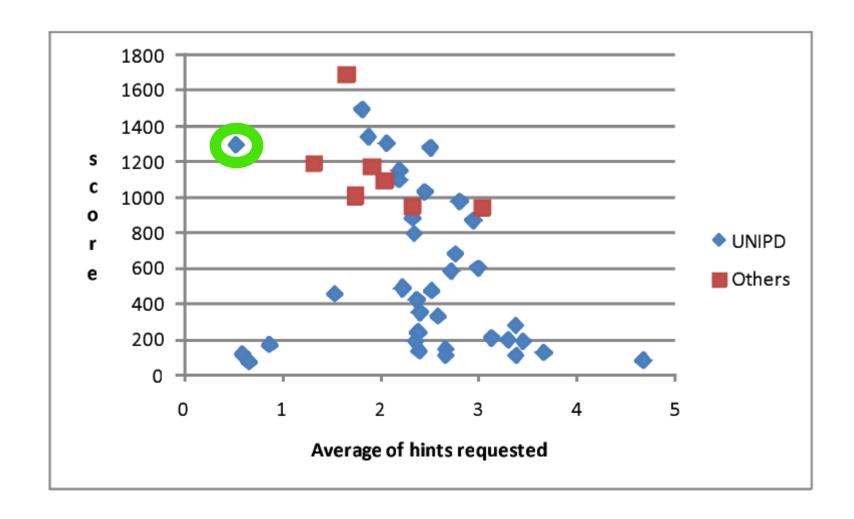


Found or skipped?



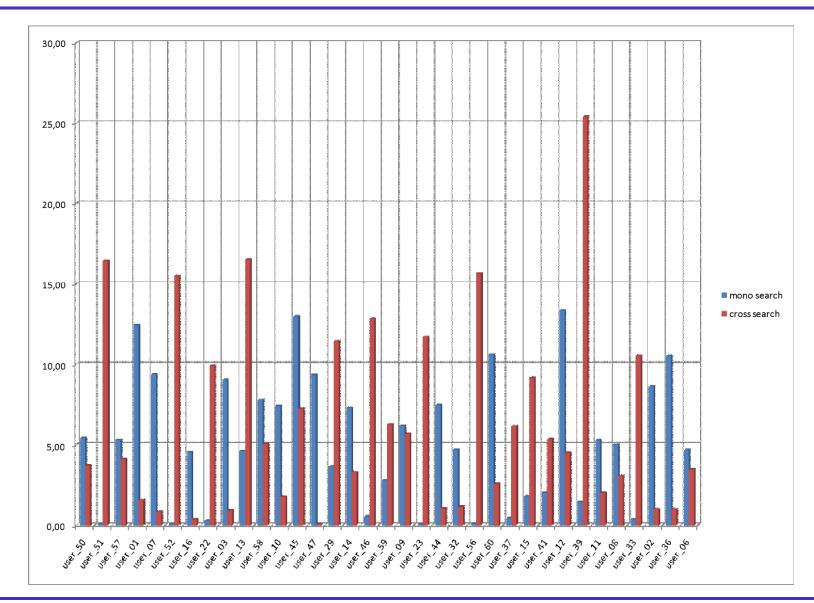


Hints and clues





Monolingual or Multilingual



Conclusions

- ☐ The hardest part is the size of the set of images retrieved
- Describing the image is a difficult task (both the user who searches the image and the user who annotates the image)
- Describing the image in a different language is even more difficult
- ☐ There is not a "winning" strategy