

Mensch-Maschine-Interaktion 2

Übung 1

Ludwig-Maximilians-Universität München
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Alexander De Luca, Aurélien Tabard

Good to Know

- Informatiker Forum
<http://www.die-informatiker.net/>
- Mimuc Twitter Account (inoffiziell)
<http://twitter.com/mimuc>
- Medieninformatik LMU Facebook Gruppe (inoffiziell)
<https://www.facebook.com/groups/36775131102/>

Übungsbetrieb

- Informationen zu den Übungen:
<http://www.medien.ifi.lmu.de/mmi2>
- Anmeldung über Uniworx
<https://uniworx.ifi.lmu.de/?action=uniworxCourseWelcome&id=109>
- Zwei Stunden pro Woche
- Praktische Anwendungen zum Gebiet der Mensch-Maschine-Interaktion 2
- Vorbereitung auf die Übungsblätter
- Wöchentliche Übungsblätter (teilweise in Gruppen)

Note und Bonuspunkte

- Klausur
- Bearbeiten der Übungsblätter keine Klausurvoraussetzung
- Bonuspunkte für Klausur durch ÜBs:
 - >75% der Punkte eines ÜBs => 1 Bonuspunkt für Klausur
 - max. 10% Bonus in der Klausur

Plagiate

- Einmalig identifizierte Plagiate führen zur Aberkennung des aktuellen Bonuspunkts
- Mehrmalige Plagiate (>1) führen zur Aberkennung **aller** Bonuspunkte
- Prüfung auf Plagiate kann jederzeit erfolgen (auch am Ende des Semesters)

Today

Web Usability Testing

Website Usability Testing

- Different approaches (partially complementing each other)
- Examples:
 - Expert-based evaluation:
 - Heuristic Evaluation
 - Cognitive Walkthrough
 - Guidelines/Checklists
 - User-based evaluation:
 - Lab Studies
 - Crowd-sourced studies
 - Live (large-scale) evaluation:
 - Feature Roll Outs
 - A/B testing
 - ...

Heuristic Evaluation

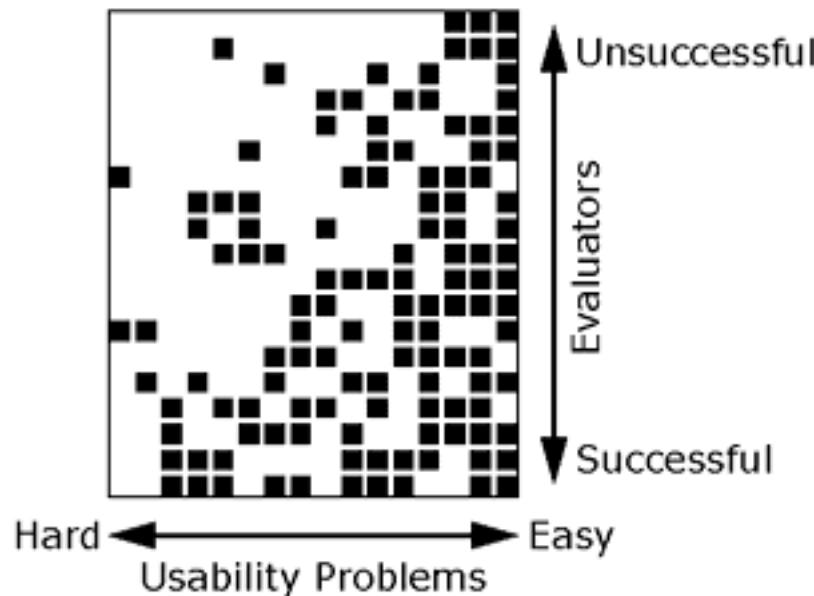
- Cheap and easy
- Evaluate an interface based on specific heuristics (e.g. Nielsen heuristics:
http://www.useit.com/papers/heuristic/heuristic_list.html)
- Different evaluators each performing the evaluation individually
- Identify usability problems and rank them by severity

Heuristic Evaluation

Necessity of multiple Evaluators

- Example: different usability problems of the same system found by different evaluators
(taken from Nielsen, 1994)

http://www.useit.com/papers/heuristic/heuristic_evaluation.html)



Cognitive Walkthrough

- Different evaluators
- More specific than heuristic evaluation
- Analyzes predefined (correct) interaction sequences
- Focus on mental models of users
- Outcome: potential problems of solving a task

John, B., Packer, H. 1995. Learning and using the cognitive walkthrough method: a case study approach. In *Proc. CHI '95*. ACM Press/Addison-Wesley Publishing Co., New York, NY, USA, 429-436. DOI=<http://dx.doi.org/10.1145/223904.223962>

Guidelines/Checklists

- Cheap and easy (as well)
- Step-by-step lists to ensure web usability
- Hundreds of different lists available
- Example: 113-point website usability checklist by Jakob Nielsen

<http://www.useit.com/homepageusability/guidelines.html>

Navigation

12. Main navigation is easily identifiable	✓ ✓ ✗
13. Navigation labels are clear & concise	✓ ✓ ✗
14. Number of buttons/links is reasonable	✓ ✓ ✗

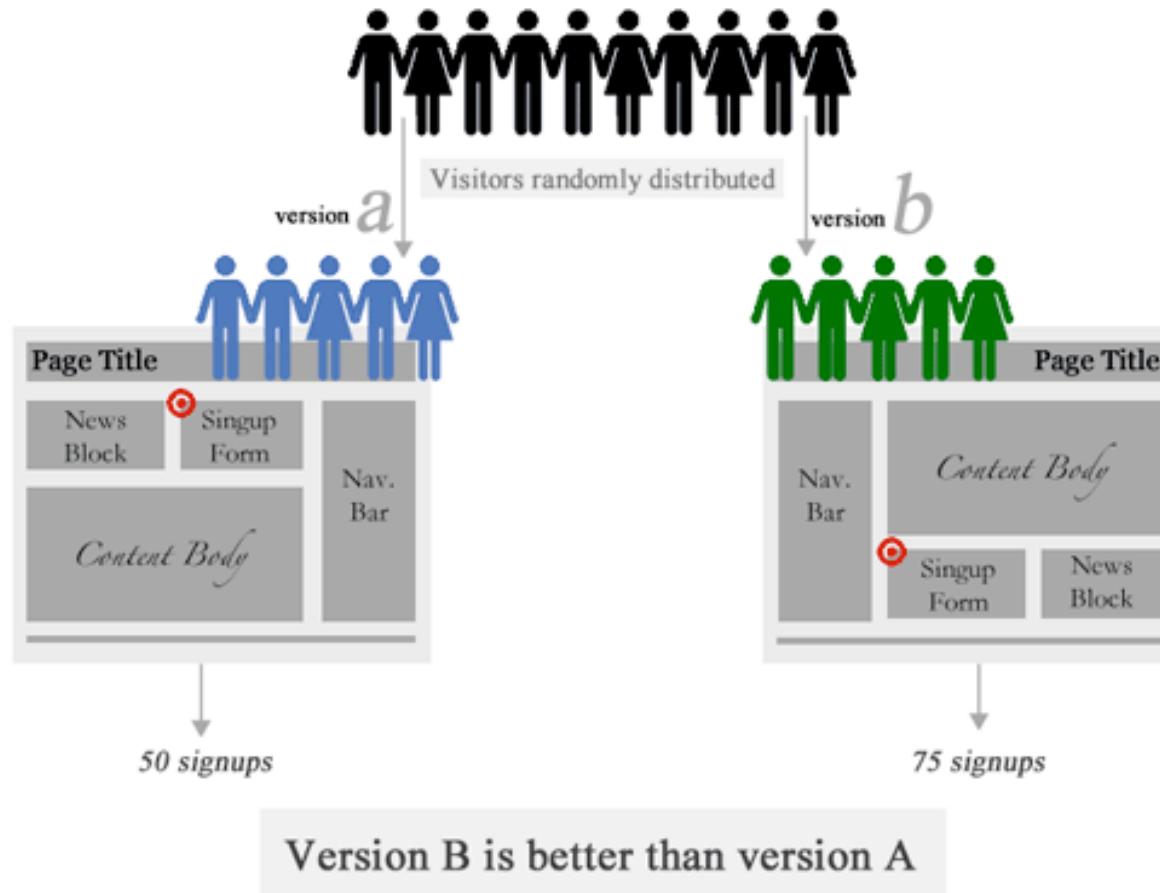
Lab Studies

- Empirical evaluation of a website
- Not conducted with experts but “standard” users
- Often performed with the help of additional tools (e.g. eye trackers)

Feature Roll Outs

- New features are made available to some of the users
- Collect usage data
- Results: publish the feature for all users, improve it or remove it
- Real users of a service are used as guinea pigs (or beta testers)
- Example: Facebook timeline

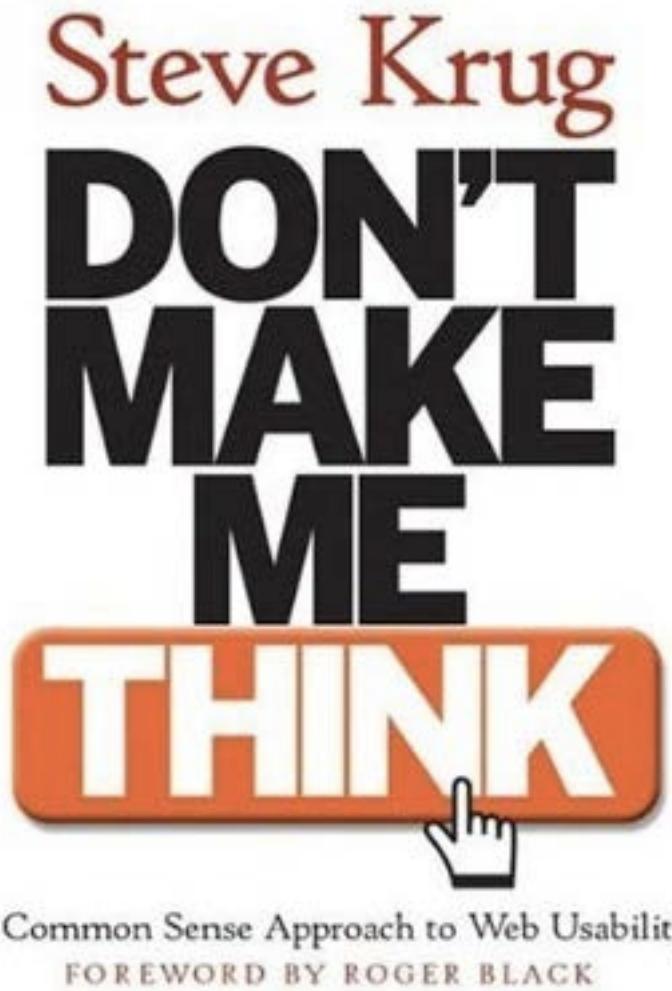
A/B – multi-variate Testing



From: <http://www.smashingmagazine.com/2010/06/24/the-ultimate-guide-to-a-b-testing/>

Another Approach

- Steve Krug. “Don’t make me think”. 2009
- “A common sense approach to web usability”
- Next slides are based on the book



Don't make me think

NOT THINKING

OK. This looks like the product categories...

Memory, Modems... There it is: Monitors. **Click**

...and these are today's special deals.

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Steve Krug. Don't make me think. 2009.

Don't make me think

THINKING

Hmm. Pretty busy. Where should I start?

Hmm. Why did they call it that?

Can I click on that?



Steve Krug. Don't make me think. 2009.

Don't make me think

< OBVIOUS

Jobs!
Click



Jobs

Hmm.
[Milliseconds of thought]
Jobs.
Click



Employment Opportunities

REQUIRES THOUGHT >

Hmm. Could be Jobs.
But it sounds like more than that.
Should I click or keep looking?



Job-o-Rama

< OBVIOUSLY CLICKABLE

Click



Results

Hmm.
[Milliseconds of thought]
I guess that's a button.
Click



Results

REQUIRES THOUGHT >

Hmm.
Is that a button?



► Results

Don't make me think

MOST BOOKSTORE SITES



Let's see. "Quick Search."
That must be the same as
"Search," right?



Do I have to click on that drop-down
menu thing?

All I know about the book is that it's
by Tom Clancy. Is Clancy a keyword?

(What is a keyword, anyway?)



I guess I have to use the menu.

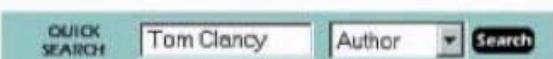
Clicks on the arrow



"Title. Author. Keyword."

OK. I want "Author."

Clicks "Author"



Types "Tom Clancy"

Clicks "Search"

Steve Krug. Don't make me think. 2009.