

BLG374E

Technical Communications for Engineers Week 5: Usability & proposal

Lecture Contents:

What is usability testing?
Three kinds of usability test:

- Experiment.

- ABA.

- Observational.

Advice: usability topic.

Advice: other topics.

Lecturer: Damien Jade Duff
Email: djduff@itu.edu.tr
Office: BAAL Laboratory (4307)

Office Hour: 1.30pm-5pm

Schedule: http://djduff.net/my-schedule

Assistant: Selda Uyanık

Course web: Ninova

Slides: Damien Duff

What is usability testing?

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Systematic investigation of how a software product is used for the purpose of improving it.

Involves:

- Careful observation.
- Experimentation.

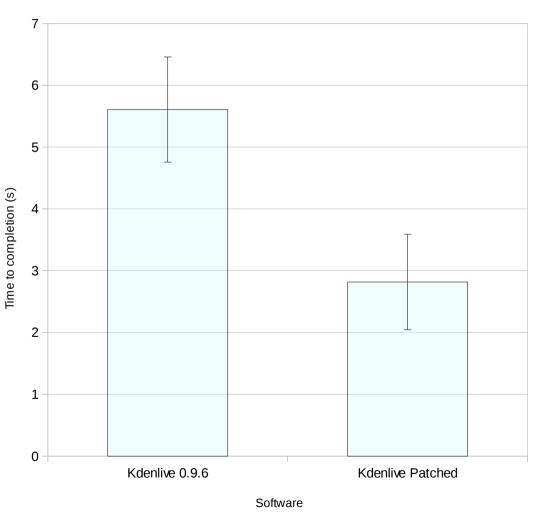
What is usability testing?

Suggested experiments:

- Compare 2 different pieces of software on some tasks.
 - e.g. Kdenlive vs Cinelarra:
 - Adding subtitles.
 - Cutting and combining two clips.
 - Matching clips with audio.
- Study learnability using observation.

Types of usability studies: Random assignment experiment

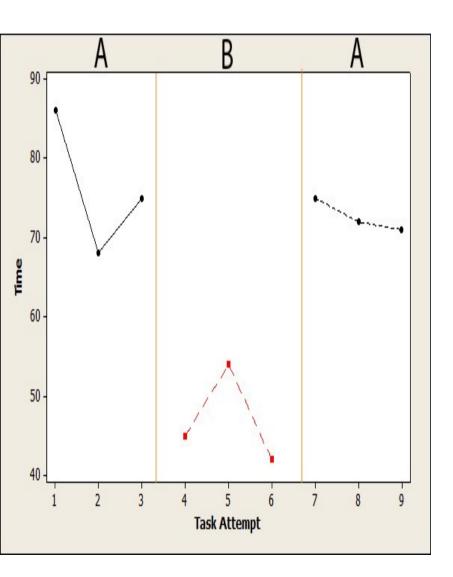
Time to splice and reverse video (10 participants)



- N participants.
- 2 software variations.
- Randomly assign participants to software.
- Measure how long to do a task or how many errors.

Types of usability studies: ABA study





• 2 different software or variations (A & B).

Users do task:

- 1. With A 3 times.
- 2. With **B** 3 times.
- 3. With A 3 times.
- As few as 1 user.

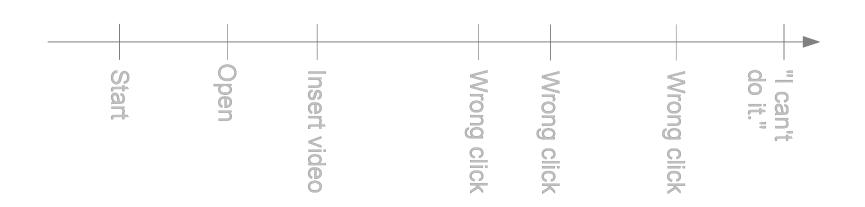
Types of usability studies: Observational

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- Watch someone using software.
- Keep notes.
 - Use a timer, keep a timeline.
- Ask questions after.
- Mostly qualitative.

"I couldn't find how to cut off the clip"

"I had to be very careful to click the border"



Usability studies advice

- One software package, custom alterations:
 - → less experimental complexity.
 - → less variance.
- Multiple packages:
 - Find equivalent tasks.

Usability studies advice

- Final report wants:
 - Quantitative results.
 - To make a conclusion.
- Do multiple experiments.

More resources

- http://www.measuringu.com/blog/experimenting-ux.php
- https://en.wikipedia.org/wiki/Usability testing
- http://www.cs.waikato.ac.nz/Teaching/COMP325B/lectures/ /Chapter14ID.pdf
- http://www.ccs.neu.edu/course/isu570/eval.ppt
- https://www.google.com.tr/search?q=usability+experimen tation