




Minutu

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A high-angle, close-up shot of a person's hands holding a smartphone in a meeting room. The person is wearing a silver metal watch on their left wrist. The phone screen displays a grid of colorful app icons. The background shows a light-colored wooden conference table, a grey carpeted floor, and a black office chair. The text "with their learning concerns" is overlaid in white on the image.

with their
learning concerns

Problem and Identified Tasks

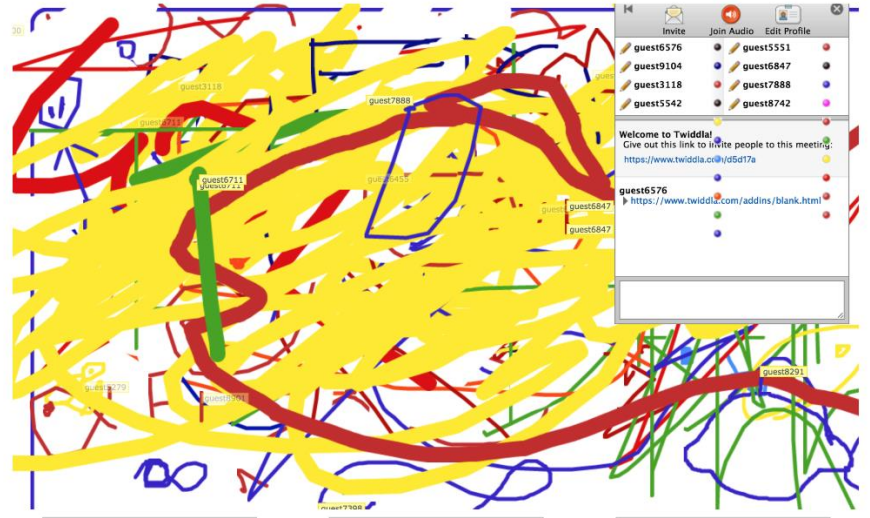
Problem & motivations

Students don't feel confident when asking due to several reasons.

Providing fine-grained **feedback** on topics.

One-Minute Paper technique.

It is **emotion** driven evaluation.



Motivation

“I think it would be useful for korean students, they are shy.”

- anonymous korean student-

“Sometimes, we are behind the topic schedule, it is waste of time.”

- anonymous KAIST student-

“Any questions?, No questions for the exam?”

- anonymous KAIST professor



Topic reference

Automatically reference today.

Set a topic in a comment.

What if we could reference a presentation?

Or upload an image.

Schedule				
Week	Date	Topic	Reading (<i>response</i> indicates a reading response is required for the article.)	Due
1	9/1	Introduction & Course Info (PDF)		
1	9/6	Introduction to crowdsourcing and human computation (PDF) Discussion by Juho (PDF)	(1) Howe, Jeff. "The rise of crowdsourcing." Wired magazine 14.6 (2006): 1-4. (2) Quinn, Alexander J., and Bederson, Benjamin B. "Human computation: a survey and taxonomy of a growing field." CHI 2011.	
2	9/8	Crowdsourcing platforms (PDF) Discussion by Oisen (PDF)	(1) <i>response</i> Ipeirotis, Panagiotis G. "Analyzing the amazon mechanical turk marketplace." XRDS: Crossroads 17.2 (2010): 16-21. (2) <i>response</i> Geiger, David, et al. "Managing the Crowd: Towards a Taxonomy of Crowdsourcing Processes." AMCIS. 2011. (3) Vakharia, Donna, and Matthew Lease. "Beyond AMT: An analysis of crowd work platforms." arXiv preprint arXiv:1310.1672 (2013).	

Coke vs. Diet Coke Experiment

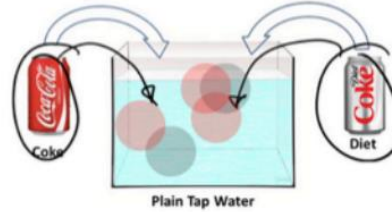
Goals:

- Identify Manipulated and Responding Variables
- Writing Hypotheses
- Introduce Properties of Matter



Toggle Heatmap

Coke vs. Diet Coke Experiment

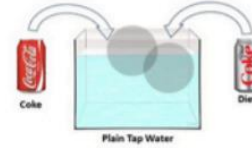


Toggle Heatmap

Coke vs. Diet Coke Experiment

Question

Will the cans sink or float when placed in water?



Toggle Heatmap

Coke vs. Diet Coke Experiment

Manipulated and Responding Variables

- **Manipulated Variable** (Independent Variable) something that is changed by the scientist

What is tested What is manipulated

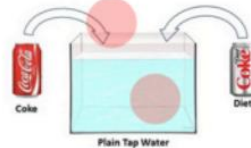
- **Responding Variable** (Dependent Variable) – something that might be affected by the change in the independent variable

What is observed What is measured

Toggle Heatmap

Identify the manipulated and responding variables in this experiment

- What is the manipulated variable?
- What is the responding variable?



Toggle Heatmap

Quiz yourself



Toggle Heatmap

System Layout

Feedback Layout

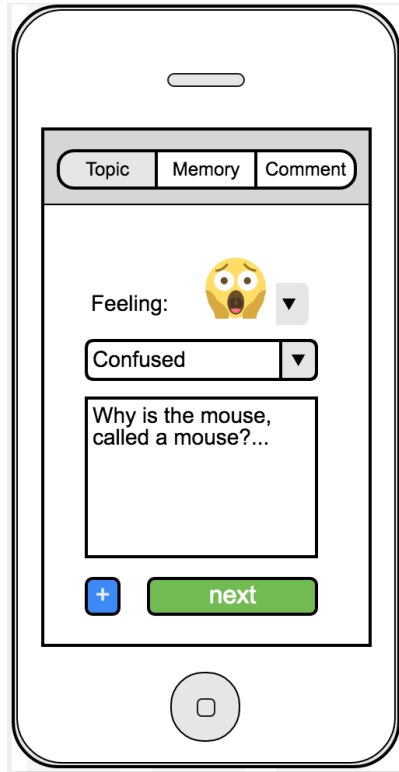
Minute-paper technique

1. What are the is the most **[valuable, confusing, curious]** thing you have learned or want to learn from this topic?

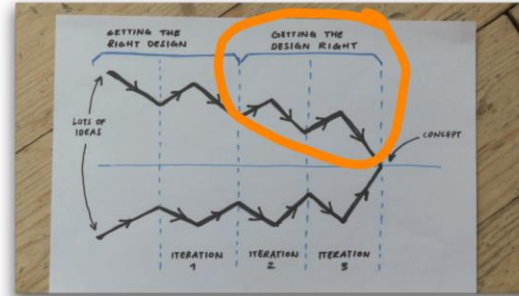
2. What question(s) remain uppermost in your mind?



Topic reference



Bill Buxton's Design Funnel

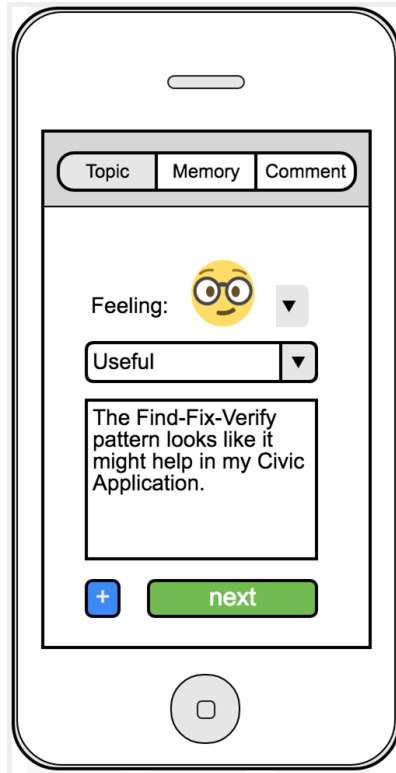


<https://www.linkedin.com/pulse/bill-buxtons-design-funnel-frank-kloos>

Scratch it

Leave a comment

Topic reference



Soylent

Shortn action patterns
utions directly
conceptual and
ity. Authoring tools offer help with prag-
thus present Soylent, a word processing
Find-Fix-Verify crowd programming pat-

Crowdproof they do - let people be able to co
use the software developed
something about programming

The Human Macro

Write a request:
Find Creative Commons figure for paragraph

This paper introduces architectural and
plex endeavors that span many levels c
other people. We thus present Soylent,
ability, cost, wait time, and work time fc

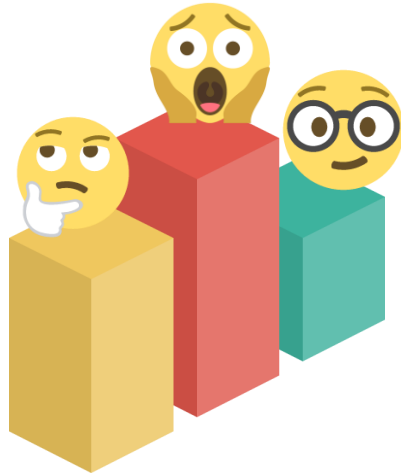
'Be able to' is unnecessary: let people
allow people to control

https://www.youtube.com/watch?v=n_miZqsPwsc

Scratch it

Leave a comment

Watch the summary, professor.



Bill Buxton's Design Funnel



<https://www.linkedin.com/pulse/bill-buxtons-design-funnel-frank-kloos>

↑
5
↓ 🤔 I didn't understand clearly
what is a Funnel?

***Most voted question.**

Motivation for Students

Badges for the students

The most voted question



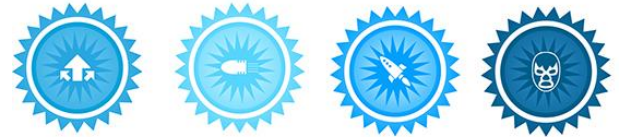
The best answers



Commenting every class



The most deep feedbacks



In course participation

Course Outline

Midterm - 30%

Final - 30%

Assignments - 20%

Participation and feedback - 20 %

Plan

Plan: roles

Noe: programming back-end API.

Nurzhan: programming mobile app.

Yekaterina: design & programming.

Plan: schedule

Activity	Date
Prototype	November 16th
Feedback from users about process	November 24th
Test	1st & 2nd week December
Conclusion	Before last presentation

Test crowd: Meetup for programmers in Mexico, one voluntary group in KAIST for a week, lastly mturk.

Q&A

References

[0] Glassman, Elena L., Juho Kim, Andrés Monroy-Hernández, and Meredith Ringel Morris. "Mudslide: A spatially anchored census of student confusion for online lecture videos." In Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems, pp. 1555-1564. ACM, 2015.

[1] Emojis: <http://emojione.com/>

[2] Minutu icon. Icon designed by Madebyoliver from www.flaticon.com

[3] Badges. Designed by Nick Grasso from <https://www.behance.net/>