

Questions?

- Final
 - In class final on May 22nd from 10:30 to 12:30
- Preliminary design presentation
 - 04/03
- Paper review in class
 - Be ready to have a draft by May 1st
- Office hours/CHI next week

Between or Within subject design?

- Possible problems
 - Different participant backgrounds
 - Irreversible effects
 - Non-linear confounding variable
 - Symmetric skill transfer
 - Asymmetric skill transfer
 - Range effect
- What to do about them?
 - Change design
 - Counterbalancing
 - Matched-group design

Experimental design: Panning and Zooming

- What is the best way to pan and zoom?
 - Task: Go through a large PDF document and click on links.
 - R: rate control, S: Scrollbar , H: hand

		Interaction structure											
		2 DOF			3 DOF			4 DOF			5DOF		
		R	S	H	R	S	H	R	S	H	R	S	H
Zooming	Automatic												
	Independent												
	None												

Experimental design: Panning and Zooming

- What is the most efficient design?
 - No more than 4 conditions per subject
 - No less than 12 subjects per condition
- Hints:
 - Remove improbable/low interest cells
 - Use simplifying assumptions
 - *More DOF faster*
 - *More DOF per hand slower*
 - *Interaction at the locus of attention faster*

Reading for next class

- For the 4/15: CHI papers
 - Pointers on the 4/10
- For the 4/17: Doing Psychology Experiments
 - For the Ch 11, 12
 - *Be prepared to explain how these ideas can be applied to your project*