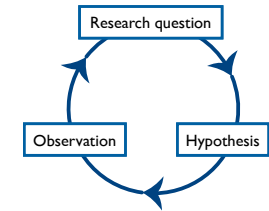# CTHCI Lab 1
Retrieving and Classifying Literature

Prof. Dr. Jan Borchers
Media Computing Group
RWTH Aachen University
Summer Semester 2014

http://hci.rwth-aachen.de/cthci

Review

- Three steps in the empirical approach
  - Why iterate?

- Variables

- Research question vs. research hypothesis

- Operational definition

- Three strategies in the empirical approach
  - Descriptive vs. Relational
  - Relational vs. Experimental (Third variable)

- Relationship patterns and strength

Times:

Tue 10:15h – 11:45h	Room 2222	lecture
Wed 13:15h – 14:45h	Room 2222	lab

Exam:
Midterm Tue 03.06.2014 10:15 – 11:45. 2222 Ahornstraße 55
Final (1st Chance) Tue 29.07.2014 10:15 – 12:00. AH6, Ahornstraße 55
Final (2nd Chance) Tue 12.08.2014 **10:00** – 11:30. AH6, Ahornstraße 55

Lecture	Topic	Presenter	Lab	Topic	Reading Assignment	Written Assignment
08.04.	Research literacy 1: Research approaches in HCI Slides: [1up] [4up] [Literature]	Jan	09.04.	Literature searching and reading techniques Slides: TBA [In-class exercise] [Declaration of compliance]	**Required:** • (Wobbrock, 2014) 7 Research Contribution Types in HCI • (Griswold, n.d.) How to Read an Engineering Research Paper	None

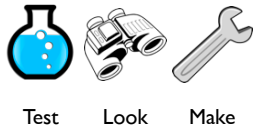http://hci.rwth-aachen.de/cthci

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Literature in this Class

- Do I need to know what problems that GPS creates while driving?
  - No.

- Required reading: Examinable, must be read by everyone
  - The list will be published on our website and on L2P this week

- Recommended reading: Not examinable

- Other example papers: Not examinable
  - Examples to illustrate the concepts explained in the class.

In-Class Exercise:
Binning HCI Papers

Approaches

Test   Look   Make
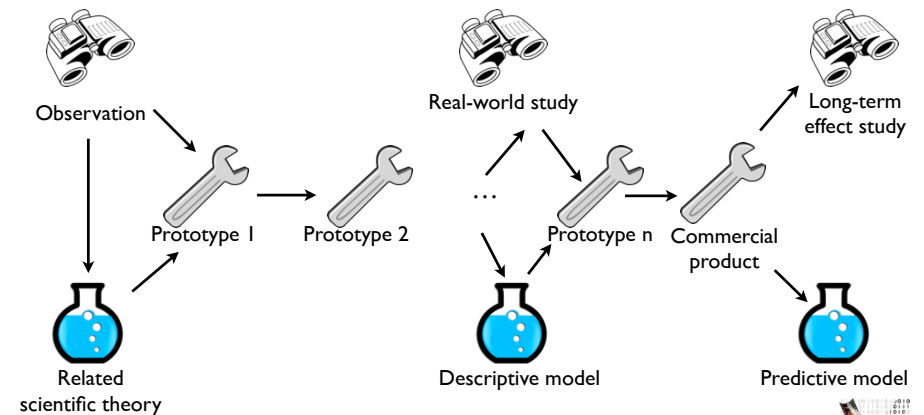
Seven Research Contribution types

- Empirical
- Artifact
- Methodological
- Theoretical
- Dataset
- Survey
- Opinion

In-class exercise

Research Example: CommandMaps

- Scarr et al., Best paper CHI '12

- Improve toolbar (specifically Microsoft's Ribbon interface)

- In-class exercise:
  - Contributions?
  - Benefits?
  - Which part uses empirical science, ethnography, and engineering/design approach?

CommandMaps, CHI '13

Available at: http://dl.acm.org/citation.cfm?id=2207713

The Messy Truth

CommandMaps

- Contributions & Benefits:

  - "Introduces CommandMap interfaces for mouse-based command invocation. Theoretically and empirically demonstrates that their defining properties — spatially stable command locations and a flat command hierarchy — improve user performance."

    [Scarr et al., CHI '12]