



Aalto University  
School of Science

# Experimental and statistical methods II

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Brain and Mind Laboratory

# Outline

- Schedule for the spring
- Research plan
- Software tips for the experiments

# Schedule

- Final symposium May 5th (9-12) room F255
  - Presentations: 15 minutes each
  - Written reports: DL May 31st
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- Office reception on March 5th (14-16) room F326

# Research plan contents 1/3

- Main objective and summary of the project
- Background to the project
  - Brief review on existing knowledge in the field
  - Which questions are not answered well enough by existing research?
- (Theoretical framework)
  - Which theoretical approach did you choose and why?
- Research questions and expected findings (hypotheses)

# Research plan contents 2/3

- Participants and recruiting
  - What is the target population? (sample size, age, gender, patient status, ...)
  - How do you plan to recruit participants?
- Methods
  - Experimental design and procedures?
  - Stimuli? (what, where, ...)
  - Data collection? (how, where, ...)
- Analysis
  - Which statistical analyses do you plan to use?

# Research plan contents 3/3

- Resources
  - Equipment?
  - Software?
  - Skills?
- Preliminary schedule



# Experiments

- PsychoPy
  - <http://www.psychopy.org>
- Matlab's Psychtoolbox
  - Runs also on Octave
- Presentation (needs a licence, ask us)

# Online experiments

- GoogleForms
- Wix.com & GoogleForms
  - Check the podcast: <http://bit.ly/V8znZk>
- More resources:
  - [www.apa.org/monitor/apr00/research-box3.aspx](http://www.apa.org/monitor/apr00/research-box3.aspx)