PC training 27 Sept. 2012
Analysis of OHC Survey data

- Preparatory steps

- Go to course homepage at

https://wiki.helsinki.fi/display/SocStats/Topics+in+Survey+Methodology+and+Survey+Analysis%2C+fall+2012

- Download all data sets to your personal folder, e.g.
  - SAS data set: OHC.sas7bdat
  - SPSS data set: OHC.sav
  - Mplus data set: OHC.dat

- Download all program codes to the same folder as the data
  - SAS program code: PC_Session_SAS2.sas
  - Mplus program code: Mplus_code.inp

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1) Analysis of OHC Survey data with SAS

- Open SAS software: SAS 9.2 (English)
  - Open SAS program code: PC_Session_SAS2.sas
- SAS analysis: Follow instructions
  - Data step operations
  - Analysis operations
    - SURVEYMEANS, SURVEYFREG
    - SURVEYLOGISTIC
    - GENMOD, GLIMMIX
- Examine results
  - Consult SAS help and Documentation / and SAS/STAT Procedures Guide
- Compare:
  - Proper analysis results (correct sampling design assumption) with improper results (SRS assumption)!
  - Numerical results of SURVEYLOGISTIC, GENMOD AND GLIMMIX!
- Further training: Try by yourself!

- NOTE: To run a piece of SAS code, paste the area and click submit button (run) or F3 key

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2) Analysis of OHC Survey data with SPSS

- Open SPSS software
- Open SPSS data set: OHC.sav
- CSPLAN file: Go to

  Analyze – Complex samples – Prepare for analysis
  Analysis Preparation Wizard for CSPLAN file creation
  - Follow instructions
- Logistic regression: Go to

  Analyze – Complex samples – Logistic regression
  Complex Samples Plan for Logistic Regression Wizard:
  Use default file – Continue
- Complex Samples Logistic Regression Wizard:
  - Follow instructions
- Examine results (Output file). Consult SPSS Help.
  See SPSS Command Syntax Reference
- Further training: Try by yourself !

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3) Analysis of OHC Survey data with MPLUS

- Open Mplus Editor
  - Open Mplus program code: Mplus_code.inp
- Examine the code. Consult Mplus Help.
  - Mplus User's Guide: http://www.statmodel.com/
- Run the code: Press RUN button
  - Examine results: File Mplus_code.out
- Compare results of SAS, SPSS and Mplus!
- Further training: Try by yourself !