

Psych 6136: Assignment 1

Readings

- DDAR, Ch. 1 – Ch 2
- Agresti, Ch. 1

Supplements

A (very) short introduction to R, <http://cran.r-project.org/doc/contrib/Torfs+Brauer-Short-R-Intro.pdf> covers the basics of installing R and R Studio, the R Studio window layout, and an overview of R commands, data structures and functions. If you haven't already installed R and R Studio, do so now, and work through some of the examples.

Check out the cheat sheet for R available at R Studio: <https://www.rstudio.com/resources/cheatsheets/> Initially, you'll want the one on the R Studio IDE, but there are many other useful ones. Print a set and get them laminated!

McNamara & Horton (2017), "Wrangling categorical data in R", <https://doi.org/10.7287/peerj.preprints.3163v2> describe some aspects of data import and tidying specific to categorical data.

Exercises

For exercises using R, the simplest way to work is to prepare an R script with your commands in the R Studio editor panel, save the file, and then use File -> Compile Notebook to run the script, producing output in HTML, PDF or MS Word format.

Note that this uses the knitr and rmarkdown packages, which allow you to include normal text in the script, in specially formatted R comments. (See: *Compiling Notebooks from R Scripts*, http://rmarkdown.rstudio.com/r_notebook_format.html for details). It is useful to start your script with a header such as the following:

```
#' ---  
#' title: "Assignment 1"  
#' author: "John Smith"  
#' date: "Jan 16, 2015"  
#' ---
```

Inside your script, you can use other such markdown comments to produce section headers (#' #, #' ##, #' ### for heading levels 1, 2, 3), such as

```
#' ## Problem 1  
#' Here you can add comments that are treated as normal paragraph  
#' text to describe what you did or what you found
```

Problems

1. DDAR, Ex 1.1(a), Ex 1.2
2. DDAR, Ex 1.2
3. DDAR: Ex 2.2
4. DDAR: Ex 2.4