Poli 5D Social Science Data Analytics
Introduction to R

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February 15, 2017

Contact Information

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The teaching staff is a team!

Professor Roberts	M	1600-1800 (SSB 299)
Jason Bigenho	Th	1000-1200 (Econ 116)
Shane Xuan	M	1100-1150 (SSB 332)
	Th	1200-1250 (SSB 332)

Supplemental Materials

UCLA STATA starter kit

`http://www.ats.ucla.edu/stat/stata/sk/`

Princeton data analysis

`http://dss.princeton.edu/training/`

Road map

Some quick notes before we start today's section:

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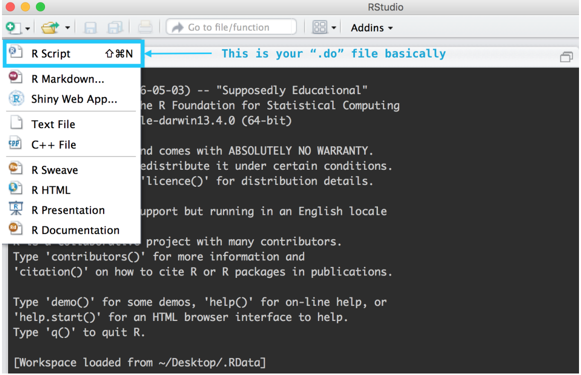

This is your ".do" file basically

```
6-05-03) -- "Supposedly Educational"
he R Foundation for Statistical Computing
le-darwin13.4.0 (64-bit)

nd comes with ABSOLUTELY NO WARRANTY.
edistribute it under certain conditions.
'licence()' for distribution details.

upport but running in an English locale

 project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

[Workspace loaded from ~/Desktop/.RData]
```

-

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  data ← read.csv (“moms_clean.csv”)

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- Changing working directory (setwd):
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- Your working directory depends on where you saved your folder
- Read in data (read.csv):
  data ← read.csv ("moms_clean.csv")
- Note that ← is an assignment operator in R
- What you did with this command is to load the data, and throw them in an object called "data"

Basic functions

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- summary() is similar to the summarize function in Stata
- nrow() and ncol() return the number of rows and columns of the data

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- A data frame is similar to a matrix; you can use is.data.frame() to check if the data set is a data frame

Data frame (2)

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  d ← data.frame(integers=1:3, names=c(”a”,”b”,”c”))

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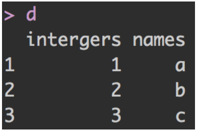

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  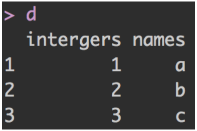

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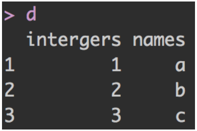

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  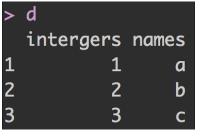

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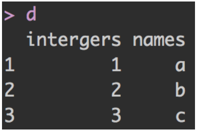

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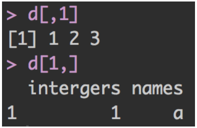

```
> d[,1]
[1] 1 2 3
> d[1,]
  intergers names
1         1     a
```

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- For example, if a data frame called poli5 contained a variable called pset, you can access the variable pset using poli5$pset

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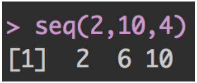

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  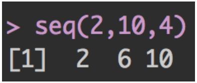

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- table()