

Rbootcamp

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8/8/2019

Mike's Personal Introduction

- R programmer for the Department of Biostatistics
- Write and maintain R packages for faculty and students
- Consult faculty and students on writing R packages



Rbootcamp Introduction

Goals:

- Basics of R on the cluster (non-interactive R)
- R basics: syntax, common functions, etc., via Rstudio
- R functions and for loops (functions and advanced control structures)
- Simulation analysis with comment on efficiency

Materials

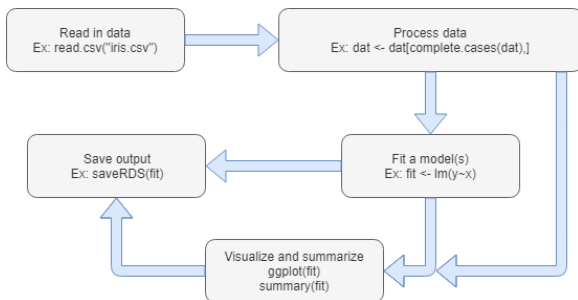
- All bootcamp materials online at <https://github.com/umich-biostatistics/Rbootcamp>
- Handouts for each topic with examples to work through
- R scripts of our examples

R on cluster (non-interactive R)

- Why R on the cluster?
- Dan explains
- How to with example.

R workflow for statistical analysis

- Bootcamps throughout semester on each area



Slide with R Output

```
summary(cars)
```

##	speed	dist
##	Min. : 4.0	Min. : 2.00
##	1st Qu.:12.0	1st Qu.: 26.00
##	Median :15.0	Median : 36.00
##	Mean :15.4	Mean : 42.98
##	3rd Qu.:19.0	3rd Qu.: 56.00
##	Max. :25.0	Max. :120.00

Slide with Plot

