

Introduction to R for Data Management and Analysis

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Notes from previous class

- t-test with a formula vs vector
- object names with a period (.)
- apply over a `data.frame`

General R Learning Tips

- Troubleshooting is important
 - Know your errors
- Know your inputs and your outputs
- Practice, practice, practice
- Make use of online resources, help pages
- Be curious
 - test your questions with examples

Troubleshooting

- Getting help within R
- Getting help outside of R
- Running code line by line

Exploring objects

- `head tail`
- `class`
- `length or dim`
- `dimnames`
- `attributes`

- Create a catalog of functions that are useful for a particular task
- Use your reference websites
 - R Cookbook by Winston Chang - ggplot2

Data Analysis Workflow

- RStudio setup
- import
- clean
 - subset / divide
- reshape
- summarize
- explore
- graph
- report