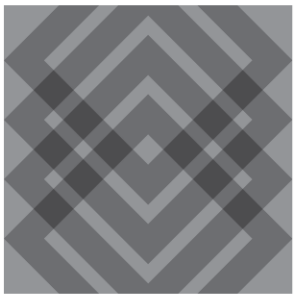
# Eric Pitman Summer Workshop in Computational Science

Intro to 

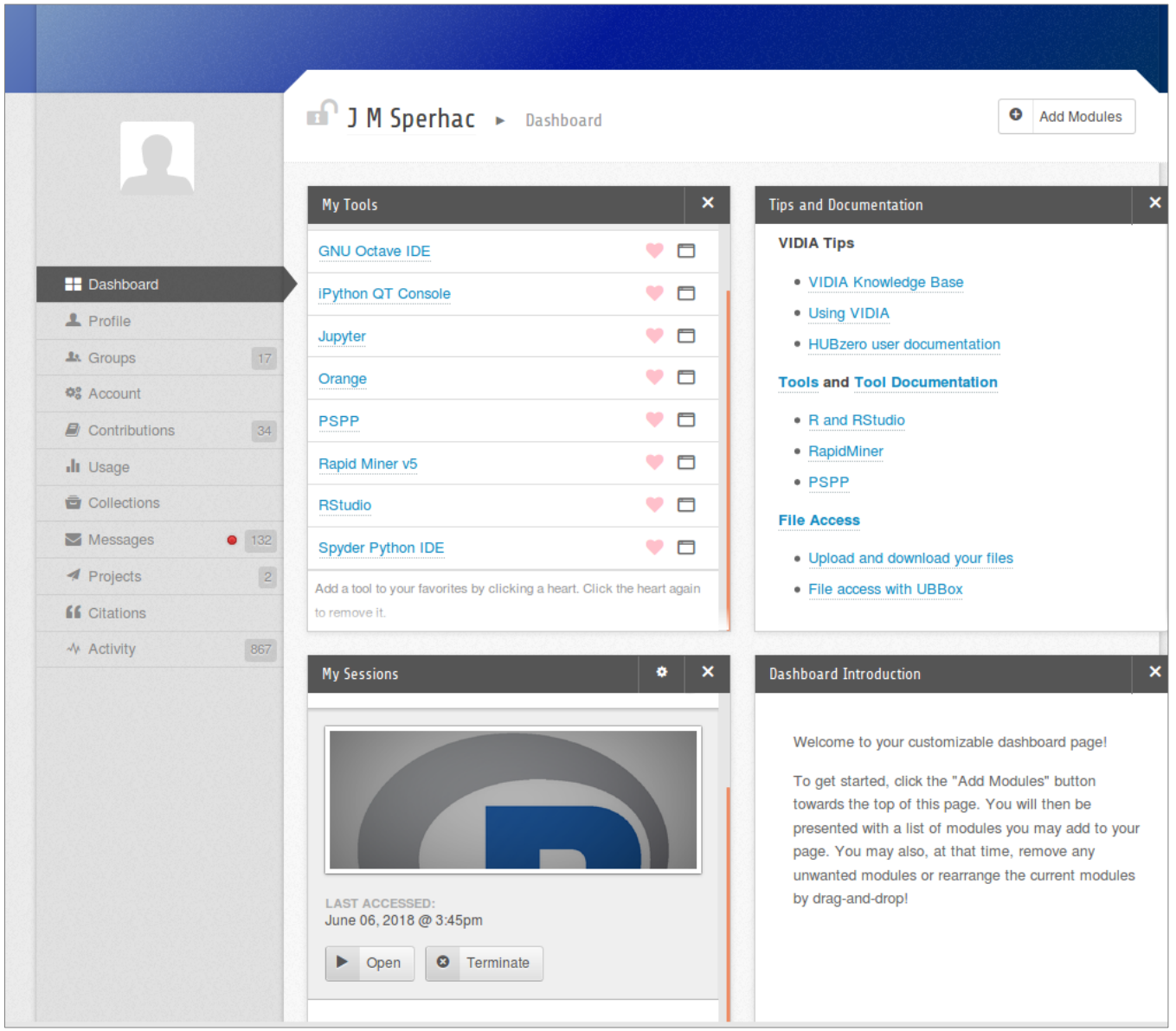
RStudio Tips



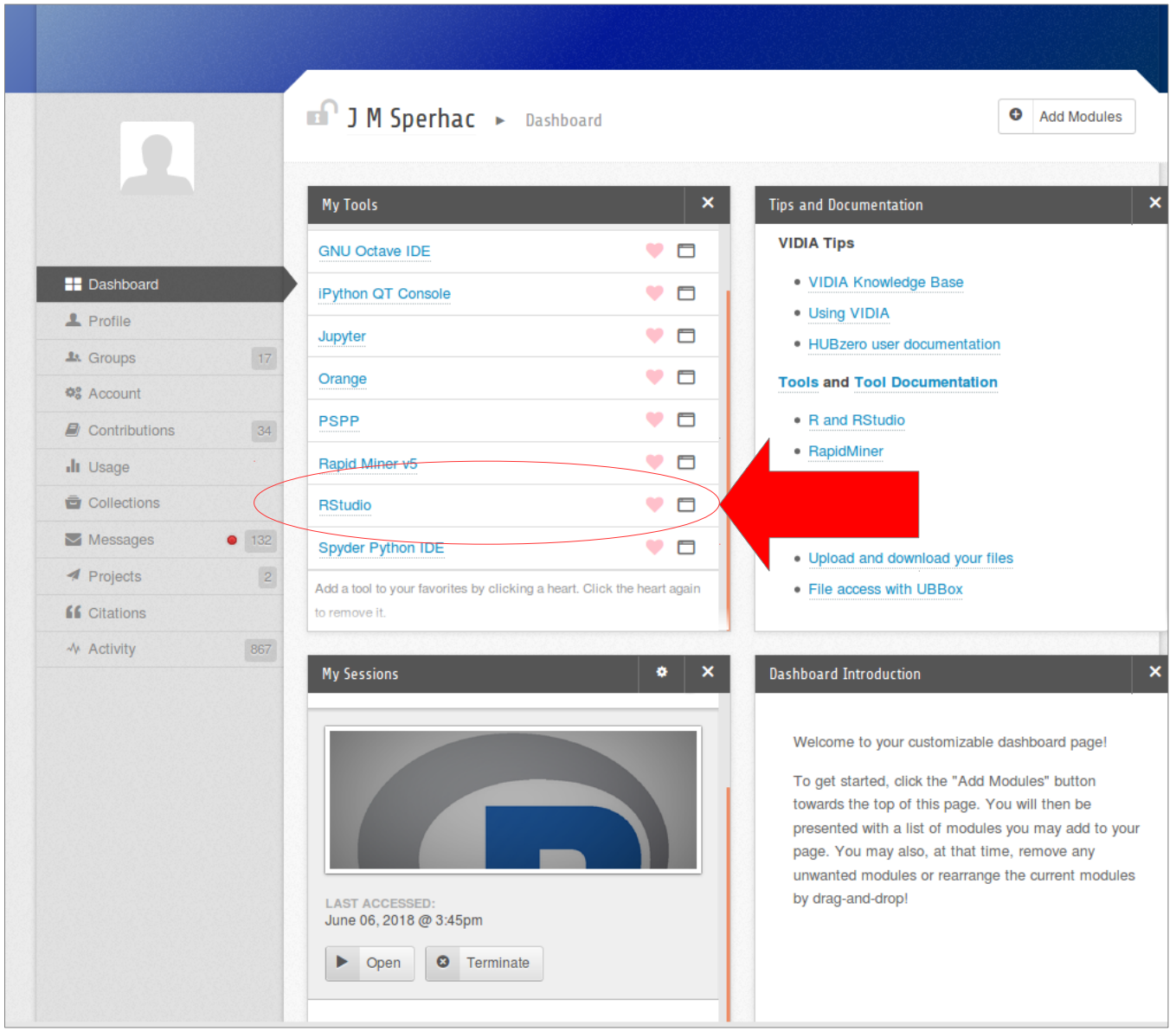
CENTER FOR **COMPUTATIONAL RESEARCH**

University at Buffalo
*The State University of New York*

# VIDIA Dashboard

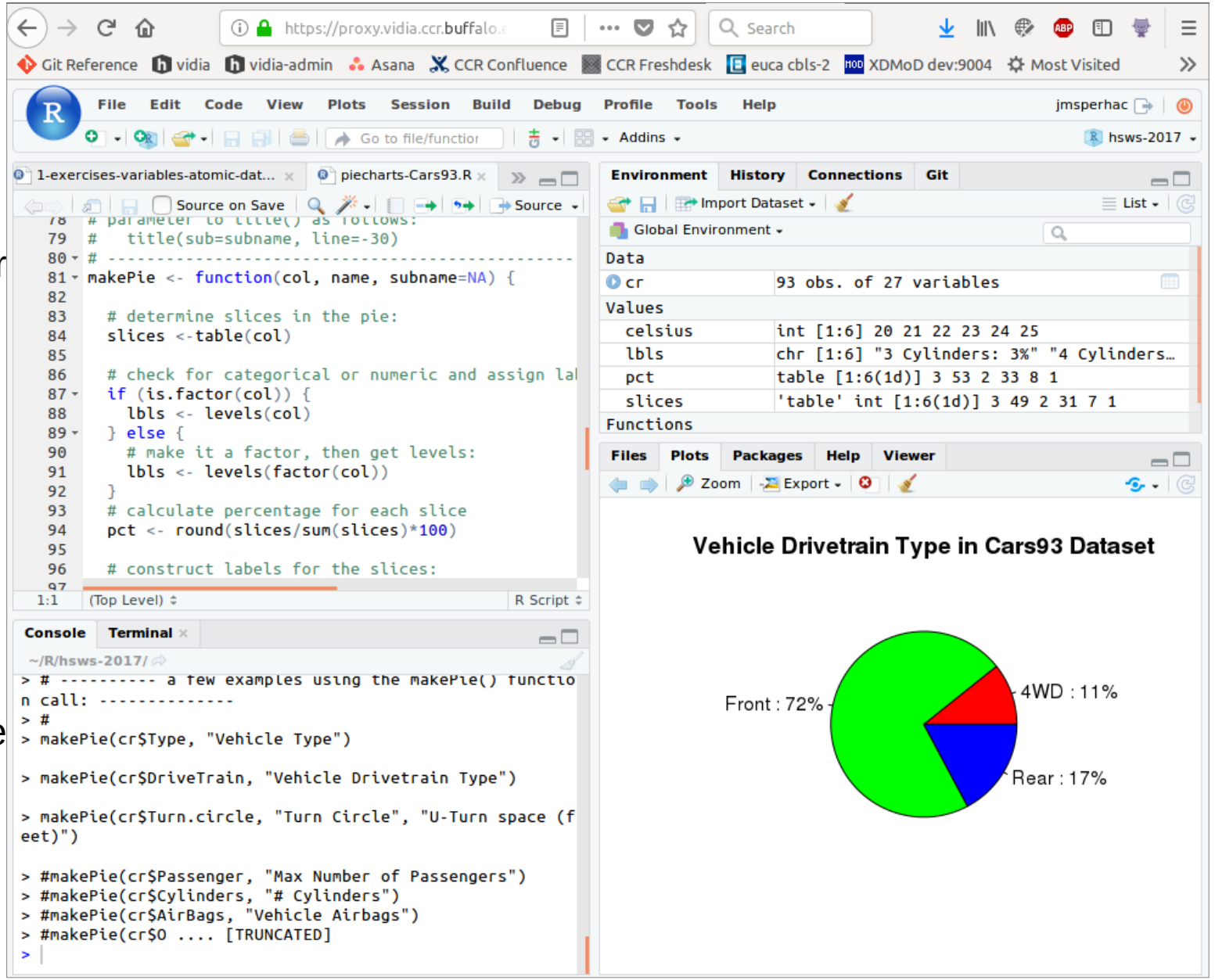


# VIDIA Dashboard: RStudio Tool



# RStudio Interactive Development Environment (IDE)

1. Editor

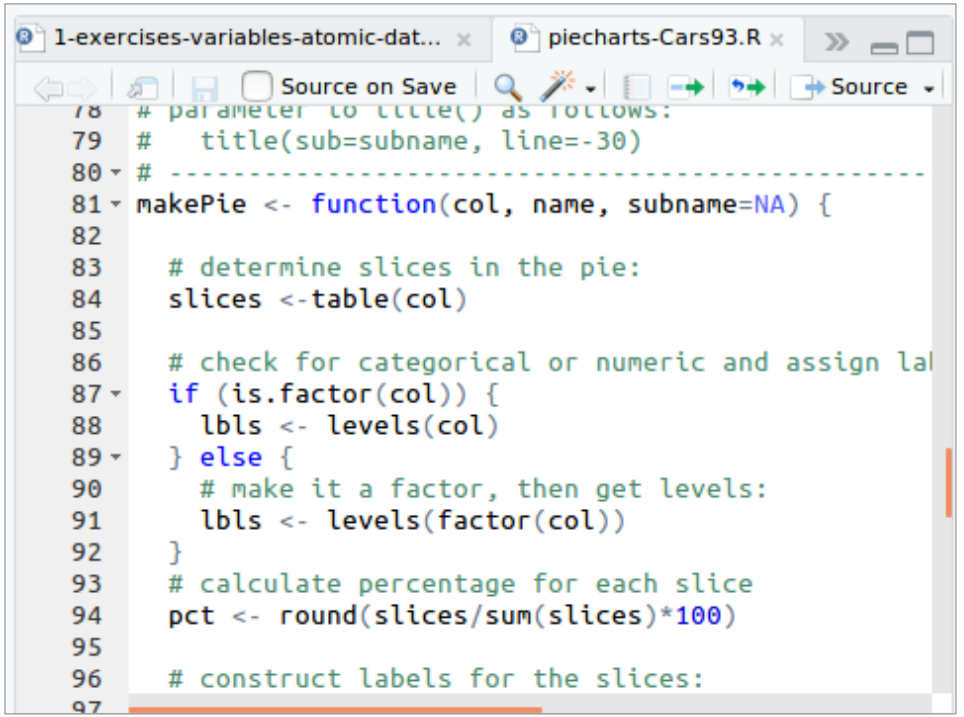



2. Workspace (Variables) and History

4. Console

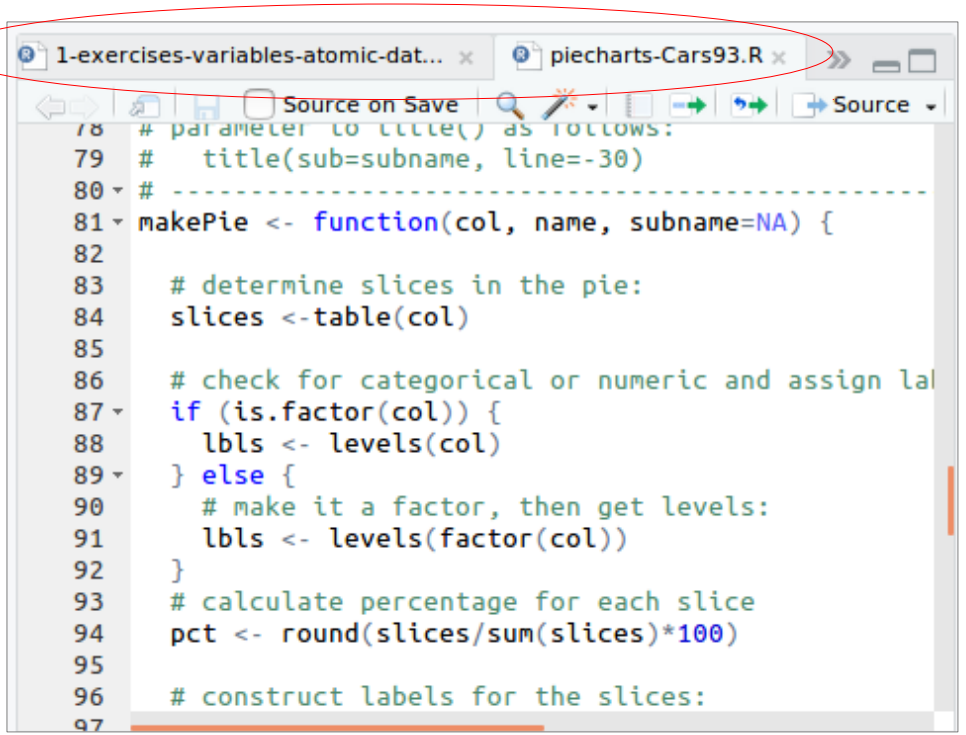
3. Plots, etc.

# Editor window



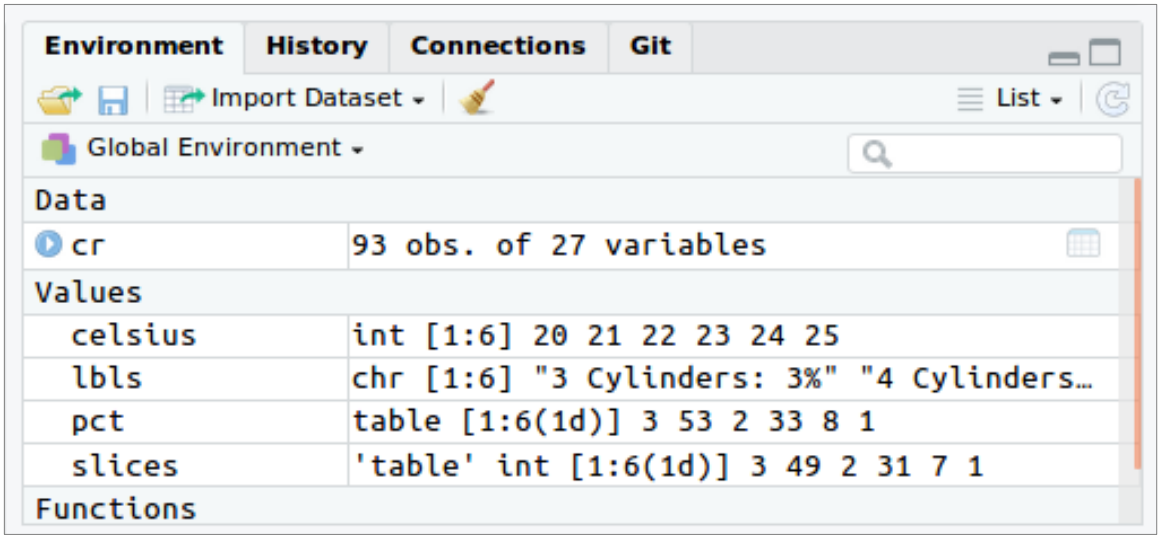

Select, view, edit, save, and execute scripts.

# Editor window

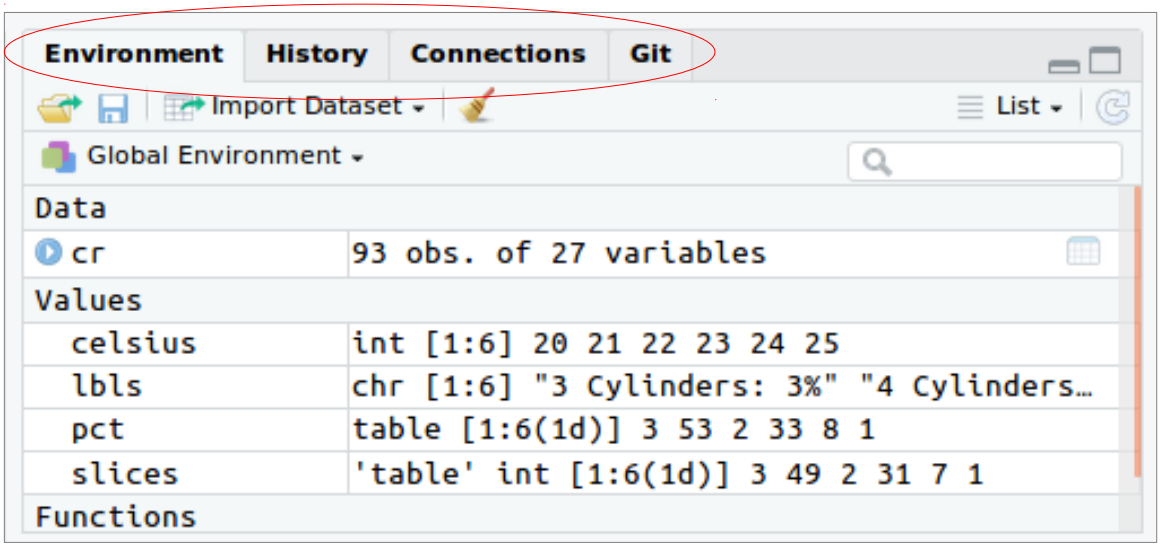



Select, view, edit, save, and execute scripts.

# Workspace and History window



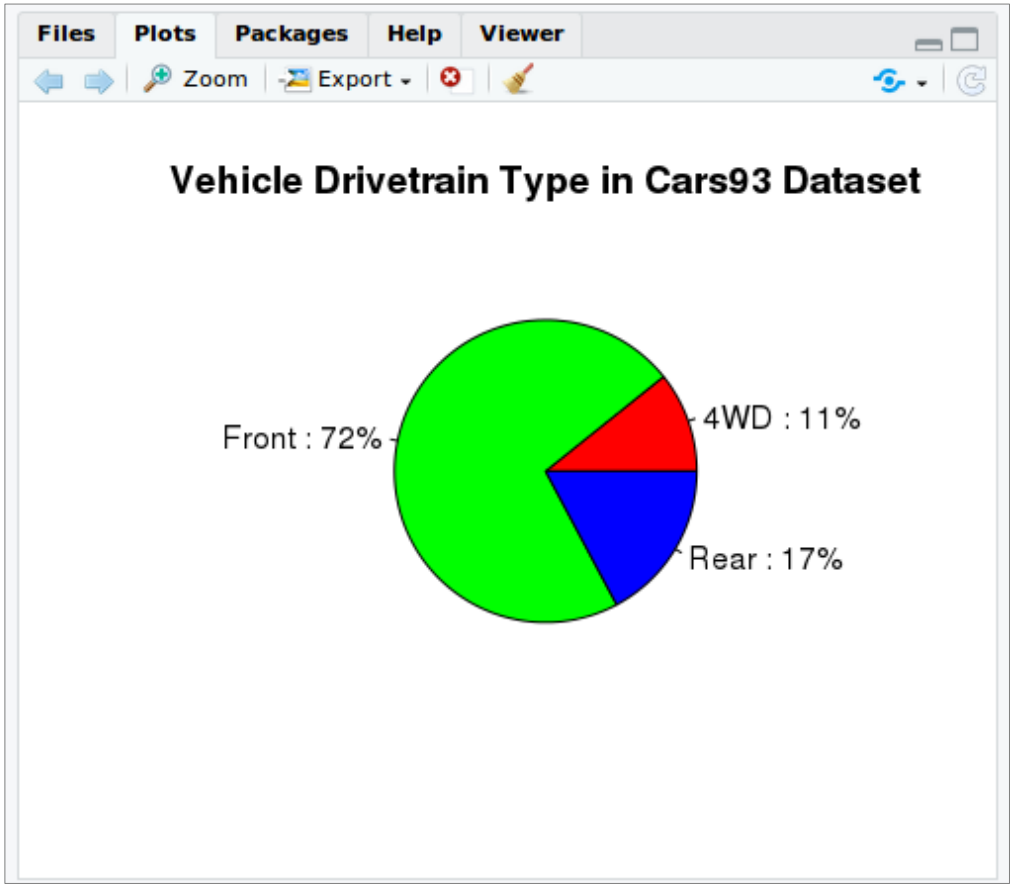
# Workspace and History window



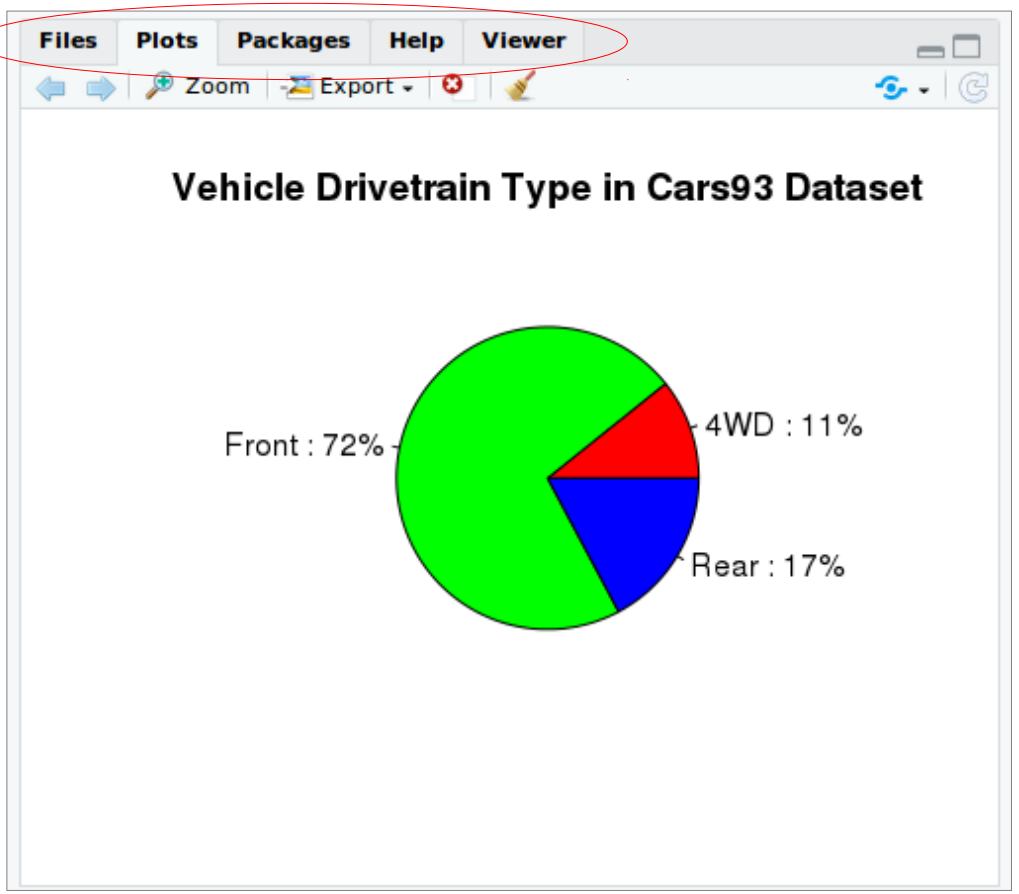

Pick a tab to access:

- Current variables (**Environment**)
- Command **History**
- (Database) **Connections**
- Version control (**Git**) status and commands

# Plot (etc.) window



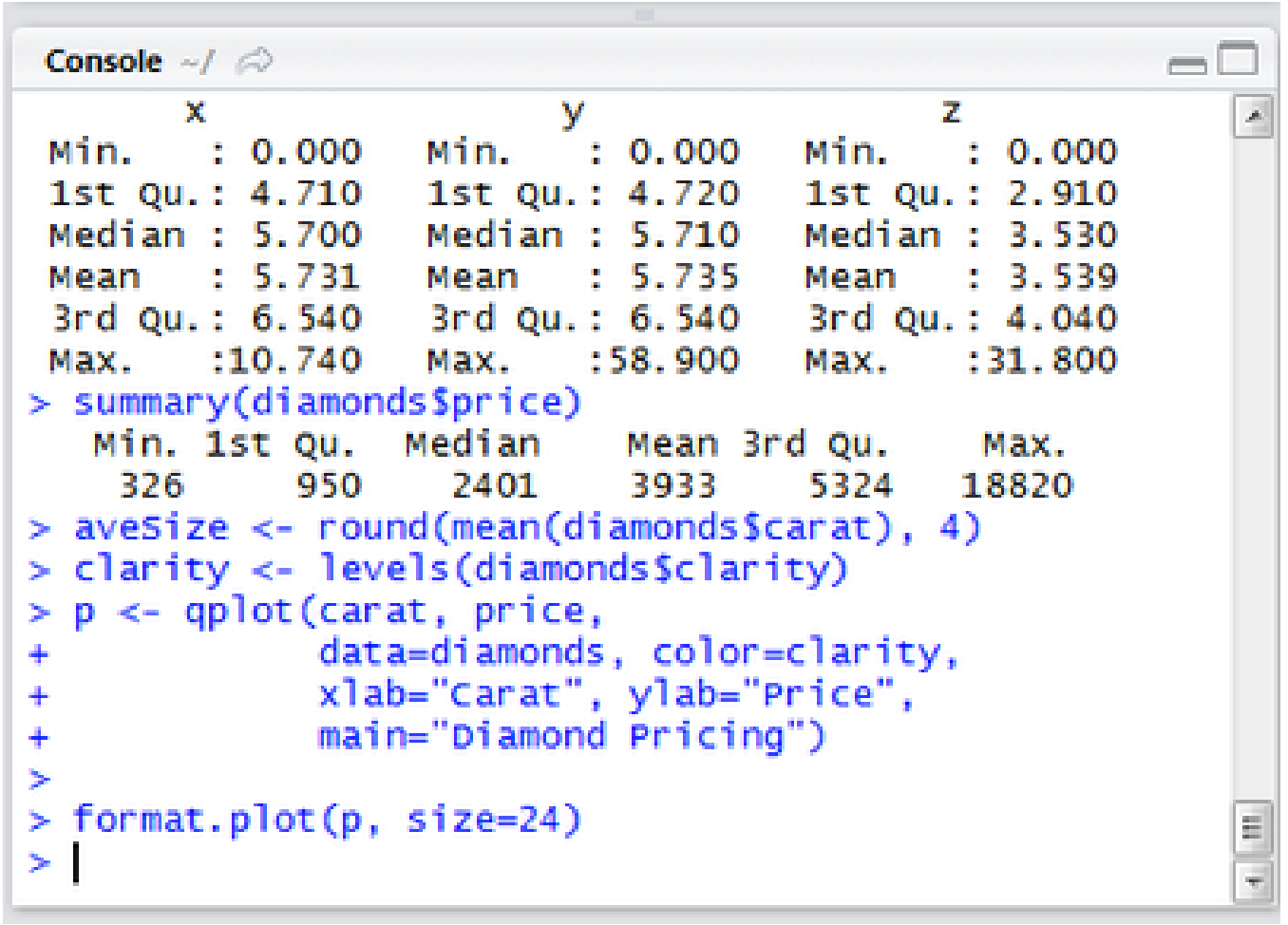
# Plot (etc.) window




Pick a tab to:

- Access **Files** and Directories
- View current **Plots**
- Review loaded and available **Packages**
- Read **Help** and Documentation
- **View** markdown

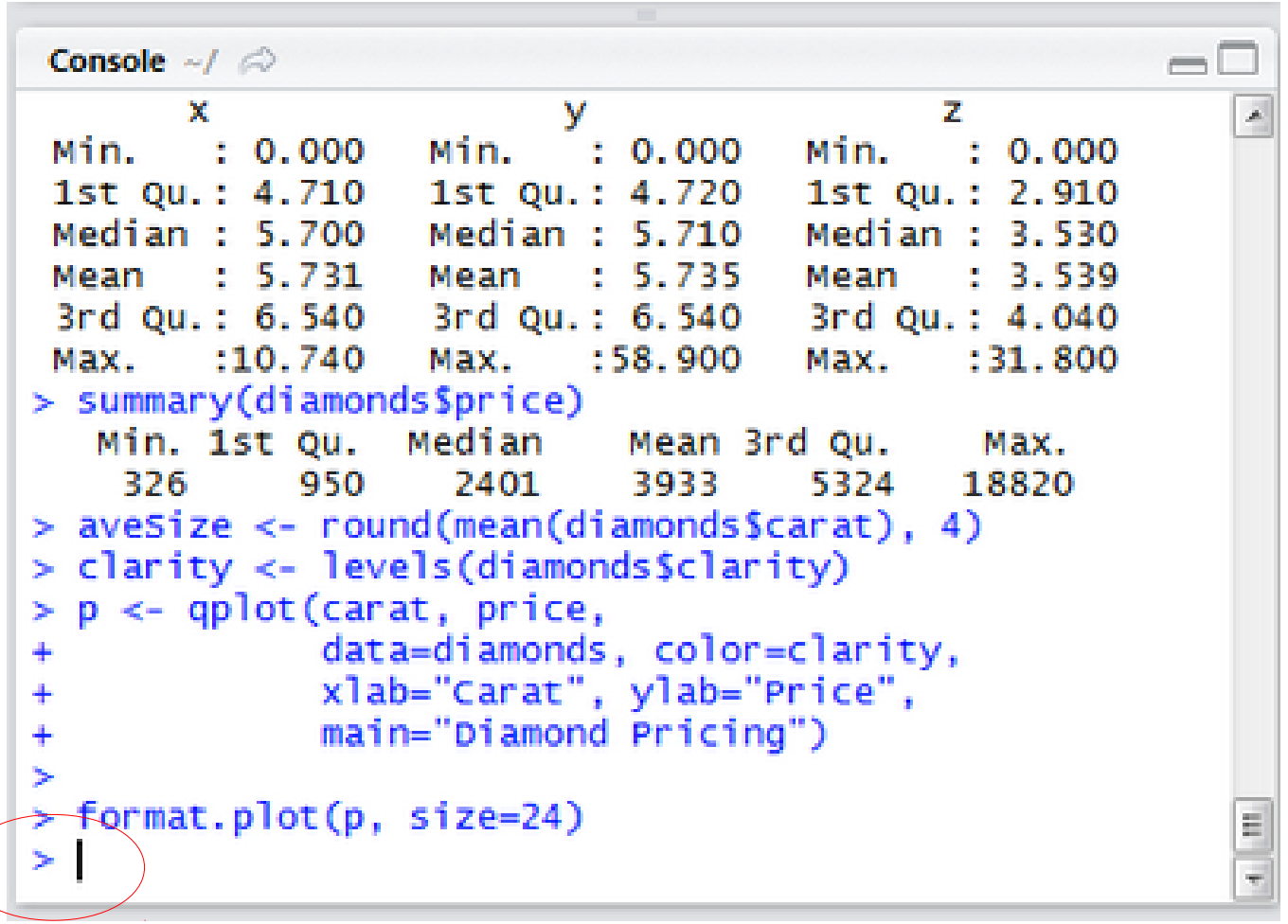
# Console window




On the command line:

- Issue commands
- Review the results
- Puzzle over error messages

# Console window

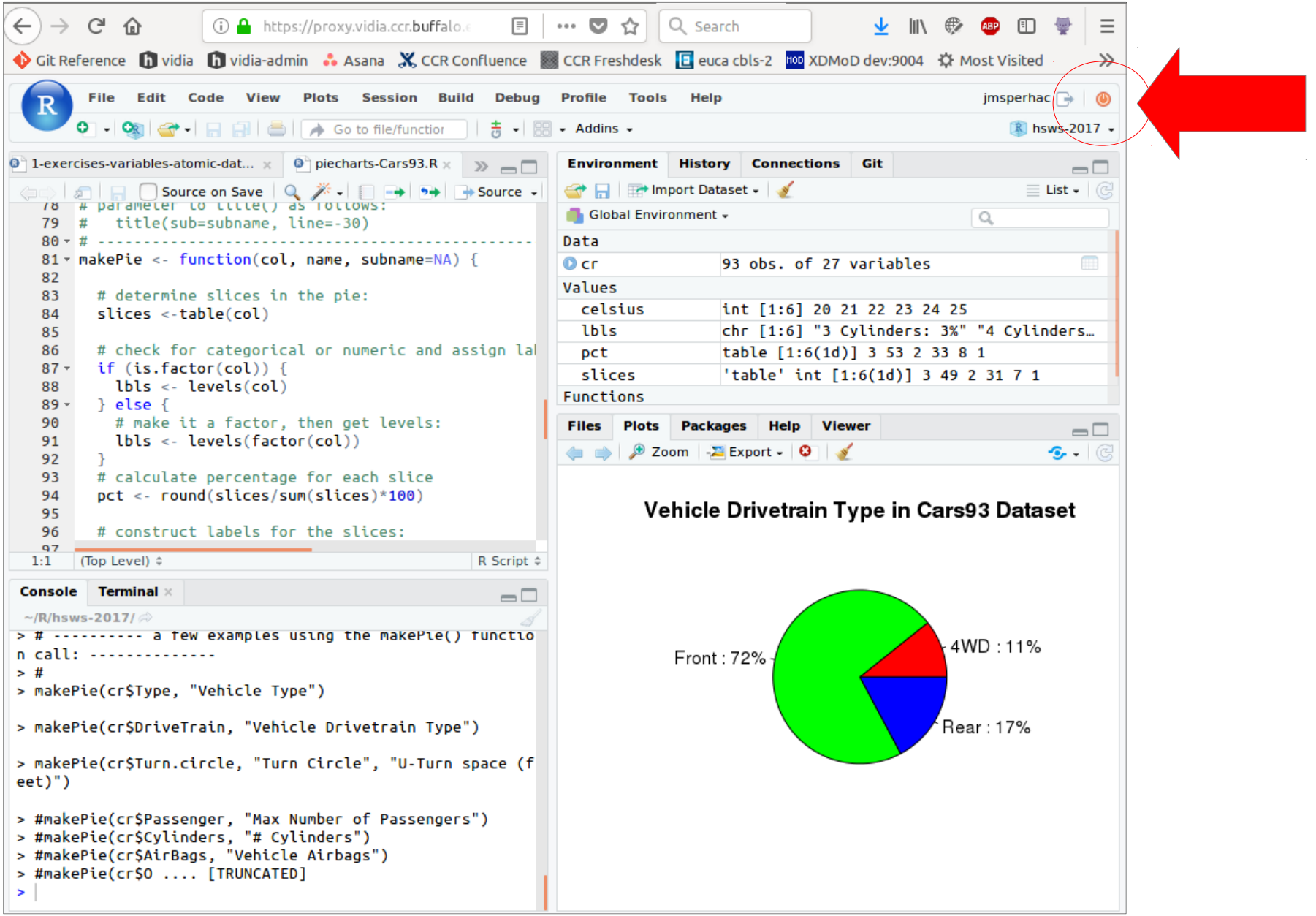



Command prompt

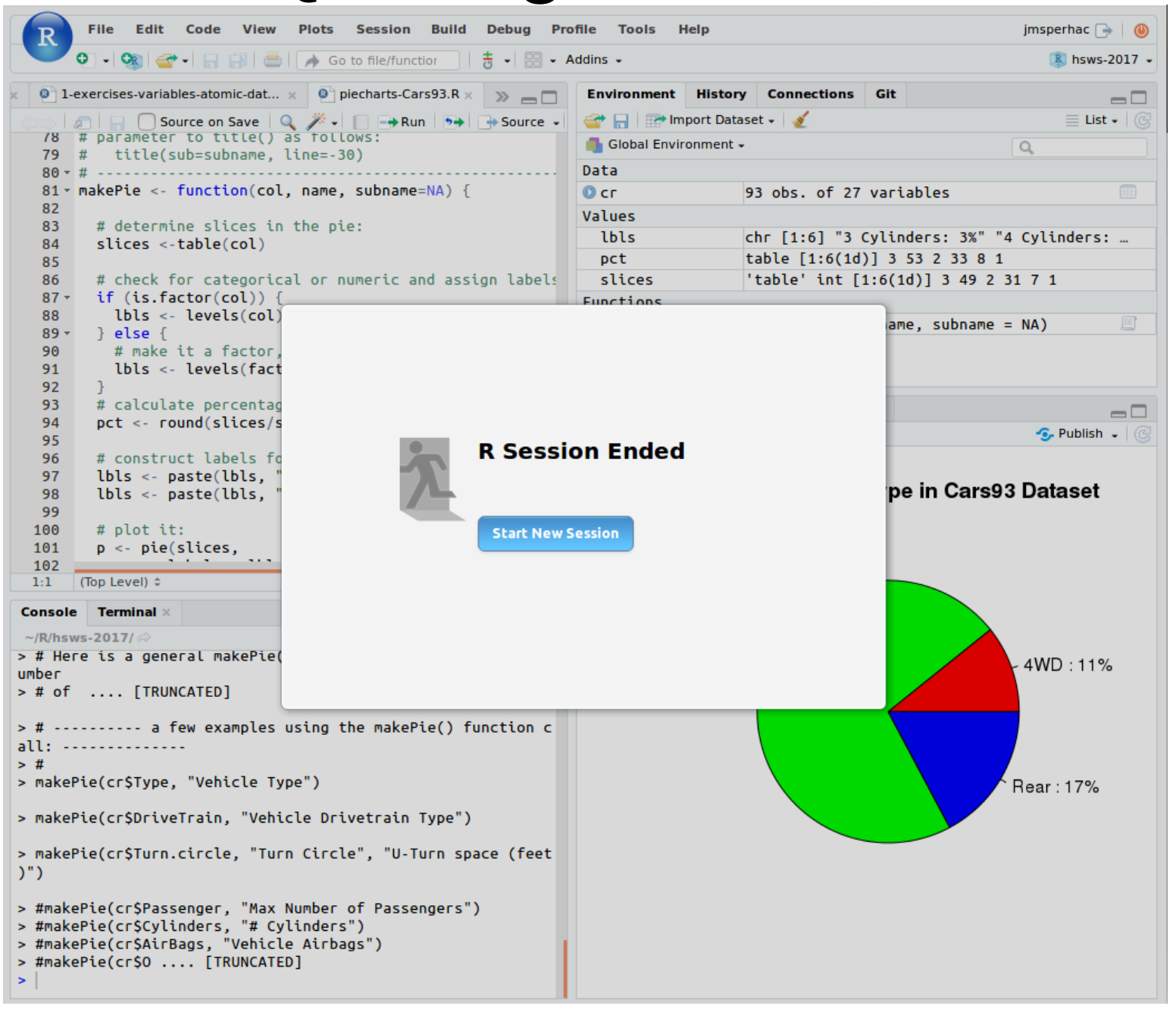
On the command line:

- Issue commands
- Review the results
- Puzzle over error messages

# Quitting RStudio



# Quitting RStudio



# R Practical Matters

- R is case sensitive (R != r)
- Command line prompt is >
- To run R code: use command line, or save script and source("script_name")
- To separate commands, use ; or a newline
- The # character marks a non-executed *comment*
- To display help files:

  ?<command-name> or ??<command-name>

# RStudio basics and tips

- Up-arrow and history pane: access and edit previous commands
- You can change window size in the IDE by dragging window borders
- Ctrl-L clears the console window
- Broom icon clears Workspace or Plots
- Is your Project loaded? Check upper right.

# ...is free

If you want to experiment further with R and RStudio, you can install them on your favorite operating system at home.

First, install R:

http://cran.r-project.org/

Then, install the RStudio IDE:

http://www.rstudio.com/ide/