To execute command in windows, hit ctrl+enter

Use # to start a line of text notes – not a command. Command just start typing.

Do everything lowercase I think

Alt+dash to write an arrow quick

To assign a variable name, name <- “jane”

Typing commands into R script portion, prints in console portion of R studio

Ls() tells you how many variables you have

Rm(variable name) removes a variable

Don’t start variable names with a number

() means it’s a function

res <- sqrt(mass) assign function to a shortcut. Variable is mass.

Means resolve variable

Print(whatever) makes it show up in the console. Like print(res) give you the answer

Getwd() tells you what directory youre working in

Help(name of function) gives you info about it in lower right panel. Or do ?name of function

install.packages("knitr")

library(knitr) to load the new package

need “” for text, not numerical values

to assign a value to a variable as an integer, type L after the value score <- 79L

typeof(score) tells you what type of variable score is

is.integer(score) asks whether the type is indeed an integer. Gives you true or false back.

Another ex: > typeof(is.integer(score))

[1] "logical"

This is also an ex of a nested func

Will be given all this in note form next week. Look on ether pad for challenges and answers <https://pad.carpentries.org/2019-09-07-UTA>

Factor is vectors treated as integers…

Matrix and list are types of data structures. Matrix is 2D. list can have multiple data types.

Try to understand how each data structure is created. Data frame is a list of vectors.

What is c()

Use .csv instead of excel with r

Double check data formatting when you import using head(name of data)

Use read.csv

The value of copy and paste bits of script that you’ve already figured out and made pretty

Plot func aint great in R. plug for coming next week to lern better way.

Type in console to pull up the plot again. Make sure you’re typing the script file name exactly the same and make sure you saved it.

To sve a plot – must mke place for it to land first

Without quotes, it thinks it’s a variable. With quotes, it understands it’s a column name.

[saracstearns@gmail.com](mailto:saracstearns@gmail.com)

atsscs

softwarecarpentry2019

github.com

to view lessons on your local machine w/o logging into github.com

open in the text editor atom. Hit control m to convert the markdown from .md to .html

resources:

<https://ggplot2.tidyverse.org/articles/ggplot2-specs.html#point)>

<https://www.gapminder.org/>

<https://pad.carpentries.org/2019-09-07-UTA>

<https://github.com/atsscs/SWC_Fall2019>

<https://utacarpentries.github.io/2019-09-07-UTA/#setup>

<https://www.r-graph-gallery.com/index.html>