# Introduction to R and RStudio Demos

**RStudio: Organize Working Directory** 

Add **data\_raw** folder using command:

dir.create("data\_raw")

**RStudio: Check Working Directory** 

Command to get new working directory path:

getwd()

#### **Console Pane**

Demo of how to cancel incomplete command in console pane:

sin(1) (press enter)

sin(1 (press enter, then press ESC key)

#### **Script Editor**

Enter script in source pane:

sin(1) # trigonometry function

cos(1) # trigonometry function

log(1) # natural logarithm

### Creating Objects in R and Assigning Value

Enter in console pane:

weight\_kg <- 55

# Assignment

```
To display object value:
(weight_kg<-55)
weight_kg
Doing arithmetic with an object:
2.2*weight_kg
Assigning a new value to object:
weight_kg<-57.5
2.2*weight_kg
weight_lb <- 2.2 * weight_kg
weight_kg<-100
weight_lb
Comments
Enter script in source pane:
sum(1,2,3) #sum of numbers
Functions and their Arguments (1)
Example of a function, enter in console:
a=4
b<-sqrt(a)
b
```

# Functions and their Arguments (2)

A function that can take multiple arguments, round():

round(3.14159)

To find help documentation for a function, enter in console: ?round Enter in console: round(3.14159, digits = 2)**RStudio Help Interface** If you need help with a specific function, let's say barplot(), you can type in the console: ?barplot If you want to find a function to do a particular task, type in the console: ??plot **Getting Help from the R User Community (1)** Save R object to file: saveRDS(weight\_kg, file="~[file path]") With example file path: saveRDS(weight\_kg, file="~/R/Test/Test/weight\_kg.rds") Enter in console to get session info: sessionInfo()