## Submodule 0: Introduction

## Self-assessment quiz

## File folder structure

- 1. I can organize my files into hierarchical folders:
  - a. True
  - b. False
- 2. What is a working directory?
  - a. File folder in a hierarchical system that you last opened
  - b. List of file folders and subfolders in your hierarchical system
  - c. File folder in a hierarchical system where you are currently operating
  - d. File folder in a hierarchical system where your program is installed
  - e. Unsure/do not know

Summary statistics (mean, median, proportion, etc.)

- 1. You find the mean by:
  - a. Ordering all data points and picking out the data point in the middle
  - b. Adding all data points and dividing by the number of data points
  - c. Counting how many times the unique values of the data points occur and picking the highest frequency
  - d. Unsure/do not know
- 2. You find the median by:
  - a. Ordering all data points and picking out the data point in the middle
  - b. Adding all data points and dividing by the number of data points

- c. Counting how many times the unique values of the data points occur and picking the highest frequency
- d. Unsure/do not know
- 3. You find the mode by:
  - a. Ordering all data points and picking out the data point in the middle
  - b. Adding all data points and dividing by the number of data points
  - c. Counting how many times the unique values of the data points occur and picking the highest frequency
  - d. Unsure/do not know
- 4. To calculate range, you do not need:
  - a. Maximum value
  - b. Median value
  - c. Minimum value
  - d. Unsure/do not know
- 5. Standard deviation can be negative:
  - a. True
  - b. False
  - c. Unsure/do not know
- 6. If there are 10 study participants:

Age	Number of participants
0 years old	2
1 year old	3

2 years old	1
3 years old	4

then	is the relative	frequency	v of 2-	vear-olds:

- a. 1
- b. 0.1
- c. 0.6
- d. Unsure/do not know

Data visualization types (bar charts, histograms, scatter plots)

- 1. To visualize a poll that asks for participants' favorite color, I should use a:
  - a. Bar chart
  - b. Histogram
  - c. Box and whisker plot
  - d. Scatterplot
  - e. Unsure/do not know
- 2. To visualize the relationship between height and weight in a surveyed group, I should use a:
  - a. Bar chart
  - b. Histogram
  - c. Box and whisker plot
  - d. Scatterplot
  - e. Unsure/do not know
- 3. To visualize a grade distribution where students are graded on a 0 to 100% scale, I should use a:

e. Unsure/do not know				
GitHub				
1. I have a GitHub account				
a. True				
b. False				
2. I have created a repository on GitHub				
a. True				
b. False				
Programming & Software				
1. I have used SPSS				
a. True				
b. False				
2. I have used SAS				
a. True				
b. False				
3. I have used Stata				
a. True				
b. False				
4. I have used MATLAB				
a. True				

a. Bar chart

b. Histogram

d. Scatterplot

c. Box and whisker plot

	b.	False		
5.	. I have previously written code in the following non-R languages:			
	a.			
3.	I have previously written code in R:			
	a.	True		
	b.	False		