setwd("~/Desktop/BIO 47120") #set working directory anything in () are arguments:inputs

library(tidyverse) # load a package into memory

library(readxl) # load another package

getwd() # show working directory to confirm

#calculator

2 \* 4

#vector

1 : 10

#Function (w. arguments)

seq(from = 1, to = 10, by = 1)

#object (data container)

x <- seq(from = 1, to = 10, by = 0.5)

#vector operations

y <- seq(from = 101, to = 110, by = 0.5)

x + y

?seq

#plot a graph with x^2 on the y-axis and the x on the x-axis

rm(list=ls())

library(ggplot2)

x <- seq(-10, 10, 0.1)

y <- x^2

qplot(x, y, geom="line")

A picture containing wall, bathroom

Description automatically generated

#plot a graph with sine of x on the y-axis and x on the x-axis

rm(list=ls())

library(ggplot2)

x <- seq(0, 8\*pi, 0.1)

y <- sin(x)

qplot(x, y, geom="line")

Chart, histogram

Description automatically generated

#plot a histogram of 1000 random normal deviates

rm(list=ls())

library(ggplot2)

x <- rnorm (1000)

qplot(x)

Chart, histogram

Description automatically generated

#name of the function:seq

#the number of arguments and their names: 3 arguments : from=, to=, by=

#values of arguments: from=1, to=10, by=0.1

#object: x

x <- seq(from=1, to=10, by=0.1)

library(readr)

setwd("~/Desktop/BIO 47120/datasets-master")

compensation <- read\_csv("compensation.csv")

names(compensation)

head(compensation)

dim(compensation)

str(compensation)

library(dplyr)

glimpse(compensation)

tbl\_df(compensation)

# 3 variables

# 40 obervations

# Numeric:Fruit ; Numeric:Root ; Categorical:Grazing

#Returns the first parts of the vector

head(compensation)

#Returns the last parts of the vector

tail(compensation)

#set the dimension of the data frame

dim(compensation)

#make summaries of the results of several model fitting functions

summary(compensation)

#o see every column in the data frame.

glimpse(compensation)