1

1

2

getwd()

ls()

x <- 9

ls()

?list.files

args(list.files)

old.dir <- getwd()

dir.create("testdir")

setwd("testdir")

file.create("mytest.R")

list.files()

file.exists("mytest.R")

file.info("mytest.R")

file.rename("mytest.R", "mytest2.R")

file.copy("mytest2.R", "mytest3.R")

file.path("mytest3.R")

file.path("folder1", "folder2")

?dir.create

dir.create(file.path("testdir2", "testdir3"), recursive = TRUE)

setwd(old.dir)

1

1

3

1:20

pi:10

15:1

?":"

seq(1,20)

seq(0,10, by=0.5)

my\_seq <- seq(5,10, length=30)

length(my\_seq)

1:length(my\_seq)

seq(along.with=my\_seq)

seq\_along(my\_seq)

rep(0, times=40)

rep(c(0,1,2),times=10)

rep(c(0,1,2), each=10)

1

1

5

x <- c(44,NA,5,NA)

x\*3

y <- rnorm(1000)

z <- rep(NA, 1000)

my\_data <- sample(c(y,z), 100)

my\_na <- is.na(my\_data)

my\_na

my\_data==NA

sum(my\_na)

my\_data

0/0

Inf-Inf

1

1

6

x

x[1:10]

1

x[is.na(x)]

y <- x[!is.na(x)]

y

3

y[y>0]

x[x>0]

x[!is.na(x) & x > 0]

x[c(3,5,7)]

x[0]

x[3000]

x[c(-2, -10)]

x[-c(2, 10)]

vect <- c(foo = 11, bar = 2, norf = NA)

vect

names(vect)

vect2 <- c(11,2,NA)

names(vect2) <- c("foo", "bar", "norf")

identical(vect, vect2)

3

vect["bar"]

vect[c("foo", "bar")]

1

1

7

my\_vector <- 1:20

my\_vector

dim(my\_vector)

length(my\_vector)

dim(my\_vector) <- c(4, 5)

dim(my\_vector)

attributes(my\_vector)

my\_vector

class(my\_vector)

my\_matrix <- my\_vector

?matrix

my\_matrix2 <- matrix(1:20, 4, 5)

identical(my\_matrix, my\_matrix2)

patients <- c( "Bill", "Gina", "Kelly", "Sean")

cbind(patients, my\_matrix)

my\_data <- data.frame(patients, my\_matrix)

my\_data

class(my\_data)

cnames <- c("patient", "age", "weight", "bp", "rating", "test")

colnames(my\_data) <- cnames

my\_data

2

1

8

TRUE==TRUE

(FALSE==TRUE)==FALSE

6==7

6<7

10<=10

4

4

5!=7

!5==7

3

4

FALSE&FALSE

TRUE&c(TRUE,FALSE,FALSE)

TRUE&&c(TRUE,FALSE,FALSE)

TRUE|c(TRUE, FALSE, FALSE)

TRUE||c(TRUE, FALSE, FALSE)

5>8||6!=8&&4>3.9

3

3

isTRUE(6>4)

2

identical('twins', 'twins')

2

xor(5 == 6, !FALSE)

3

ints <-sample(10)

ints

ints>5

which(ints>7)

3

any(ints<0)

all(ints>0)

3

2

1

9

Sys.Date()

mean(c(2,4,5))

submit()

boring\_function("My first function!")

boring\_function

submit()

my\_mean(c(4,5,10))

submit()

remainder(5)

remainder(11,5)

remainder(divisor = 11, num = 5)

remainder(4, div =2)

args(remiander)

submit()

evaluate(sd, c(1.4, 3.6, 7.9, 8.8))

evaluate(function(x){x+1}, 6)

evaluate(function(x){x[1]}, c(8, 4, 0))

evaluate(function(x){x[length(x)]}, c(8, 4, 0))

?paste

paste("Programming", "is", "fun!")

submit()

submit()

mad\_libs(adjective = "", place = "", noun = "")

submit()

'I' %p% 'love' %p% 'R!'

1

1

15

data(cars)

?cars

head(cars)

plot(x = cars$speed, y = cars$dist)

plot(x = cars$dist, y = cars$speed)

plot(x = cars$speed, y = cars$dist, xlab = "Speed")

plot(x = cars$speed, y = cars$dist, ylab = "Stopping Distance")

plot(x = cars$speed, y = cars$dist, xlab = "Speed", ylab = "Stopping Distance")

plot(cars, main = "My Plot")

plot(cars, sub = "My Plot Subtitle")

plot(cars, col = 2)

plot(cars, xlim = c(10, 15))

plot(cars, pch = 2)

data(mtcars)

?boxplot

boxplot(formula = mpg ~ cyl, data = mtcars)

hist(mtcars$mpg)