D. Dootsoma Functions

Function	Description	Arguments	Example	Additional Comment	Source
c()	Erstellung Vektoren (1-Dimensional)		c(1,2,3)	all the elements of a given vector must be of the same type	Slides_R_Bootcamp_Sept2020_DAY_1
		matrix(data = NA, nrow = 1, ncol = 1, byrow = FALSE,		all the elements of a given matrix must be of the same	
matrix()	Erstellung Matrix (2-Dimensional)	dimnames = NULL)		type	Slides_R_Bootcamp_Sept2020_DAY_1
				row bind, all the elements of a given matrix must be of the same type; very often r- and cbind() are used to add	
rbind()	Erstellung Matrix (2-Dimensional)	rbind(x1, x2,, deparse.level = 1)	rbind(c(6,4,2), c(5,3,1))	columns to an existing matrix column bind, all the elements of a given matrix must be of	Slides_R_Bootcamp_Sept2020_DAY_1
cbind()	Erstellung Matrix (2-Dimensional)	cbind(, deparse.level = 1)	cbind(1:2, 3:4, 5:6)	the same type; very often r- and cbind() are used to add columns to an existing matrix	Slides_R_Bootcamp_Sept2020_DAY_1
Collid()	Eistellung Wattix (2-Dilliensional)	data.frame(, row.names = NULL,	Comu(1.2, 3.4, 3.0)	Columns to arreasting matrix	Sildes_K_BOOKGIIIIp_Sept2020_DAT_1
		check.rows = FALSE, check.names = TRUE,			
data.frame()	Data Frame erstellen	fix.empty.names = TRUE, stringsAsFactors = FALSE)	d.test <- data.frame(v.participant.name, v.age, v.minor.YES)	within one column only one data type	Slides_R_Bootcamp_Sept2020_DAY_1
class()	Typ des Objekts		class(v.participant.name)		DemoCode_DAY_1
colnames()	Spaltennamen herausgeben / ändem	colnames(x, do. NULL = TRUE, prefix = "col")	colnames(d.test)	ăndem: colnames(d.test.2) <- c("a", "b", "????")	DemoCode_DAY_1
		merge(x, y, by = intersect(names(x),			
		names(y)), by.x = by, by.y = by, all = FALSE, all.x =			
		all, all.y = all, sort = TRUE, suffixes = c(".x",".y"),			
		no.dups = TRUE,			
merge()	combine data frames	incomparables = NULL,)		merge(x, y) can store objects of different classes and different	Slides_R_Bootcamp_Sept2020_DAY_1
list()	liste erstellen, unterschiedliche classes möglich		I.1 <- list(A = "a", num.vec = 10:5)	dimensions, elements accessed using the double squared brackets	Slides_R_Bootcamp_Sept2020_DAY_1
is.list()	check if class is list		is.list(lm.iris)	bistaces	Slides_R_Bootcamp_Sept2020_DAY_1
		seq(from = 1, to = 1, by = ((to - from)/(length.out - 1)),			
seq() rep(x=)	Generate regular sequences rep replicates the values in x	length.out = NULL, along.with = NULL,) rep(x, times = 1, length.out = NA, each = 1)		length.out: 1-10 in 5 werte mir regelmässigem abstand	DemoCode_DAY_1 DemoCode_DAY_1
head()	Returns the first parts of a vector, matrix, table	rep(x, unies = 1, lengui.out = lax, each = 1)	head(iris)		Slides_R_Bootcamp_Sept2020_DAY_1
tail() str()	Returns the last parts of a vector, matrix, table structure of object		strlinis)		Slides_R_Bootcamp_Sept2020_DAY_1 Slides_R_Bootcamp_Sept2020_DAY_1
read.table()	daten importieren	quote = "\"",	str(iris) "ExampleDataSets_ForSlides/BlaueEier.txt",		Slides_R_Bootcamp_Sept2020_DAY_1
getwd()	aktuelles working directory produce result summaries of the results of various model				Slides_R_Bootcamp_Sept2020_DAY_1
summary()	fitting functions				Slides_R_Bootcamp_Sept2020_DAY_1
ndim() range()	number of rows number of columns returns minimum and maximum value of numeric object		range(iris\$Sepal.Length)		DemoCode_DAY_1 DemoCode_DAY_1
levels()	provides access to the levels attribute of a variable provides access to the number of levels attribute of a		levels(iris\$Species)		DemoCode_DAY_1
nleveles()	variable		nlevels(iris\$Species)		DemoCode_DAY_1
unique() length()	extract unique elements length of object		nlevels(iris\$Species) length(unique(iris\$Sepal.Length))		DemoCode_DAY_1 DemoCode_DAY_1
n_distinct()	faster and more concise equivalent of length(unique(x))		p	in package {dplyr}	DemoCode_DAY_1
		https://www.rdocumentation.org/package	x = Puromycin\$conc, main = "Reaction rates vs. Conc",		
plot()	Generic function for plotting of R objects create boxolot	s/graphics/versions/3.6.2/topics/plot	xlab = "substrate conc [ppm]",		Slides_R_Bootcamp_Sept2020_DAY_2
boxplot() hist()	histogramm				Slides_R_Bootcamp_Sept2020_DAY_2 Slides_R_Bootcamp_Sept2020_DAY_2
pairs()	matrix of scatterplots				Slides_R_Bootcamp_Sept2020_DAY_2
polity	mada or scatter poor				JIMES_N_EDUCATING_SEPECTO_DAT_2
			plot(Examination ~ Fertility, data = swiss, col = "green", pch = 19)		
			abline(a = 45, b = -0.4,		
abline() text()	add a line to plot places text within the graph		col = "red", lty = "dotted", lwd = 3)	low level function	Slides_R_Bootcamp_Sept2020_DAY_2 DemoCode_DAY_2
points()	points is a generic function to draw a sequence of points at the specified coordinates				DemoCode DAY 2
legend()	add legends to plots				DemoCode_DAY_2
	reads the position of the graphics pointer when the (first) mouse button is pressed. It then searches the coordinates				
	given in x and y for the point closest to the pointer. If this point is close enough to the pointer, its index will be returned				
identify()	as part of the value of the call			end by clicking on finish (top right in graph)	DemoCode_DAY_2
locator()	Reads the position of the graphics cursor when the (first) mouse button is pressed			end by clicking on finish (top right in graph)	DemoCode_DAY_2
par()	control the visual aspect of a graph		par(mfrow = c(1, 2), ## two graphs in one device pch = 17) ## all graphs with triangles		
P0	8.4		par 21/2020 par 1000		
				> jpeg('rplot.jpg') > plot(x,y)	
jpeg()	save plot			> dev. off() > jpeg('rplot.jpg')	DemoCode_DAY_2
dev.off()				> plot(x,y)	DomoCodo DAY 2
xyplot()	makes scatterplots to indicate the relationship between two			> dev.off()	DemoCode_DAY_2
install.packages()	makes scatterplots to indicate the relationship between two numerical variables				DemoCode_DAY_2 DemoCode_DAY_2 DemoCode_DAY_2
	numerical variables general construction: ggplot(data = <data>, mapping =</data>			> dev. off() library(lattice)	DemoCode_DAY_2 DemoCode_DAY_2
library("boot")	numerical variables general construction: ggplot(data = <data>, mapping = aes(<mappings>)) + <geom_function>()</geom_function></mappings></data>	https://audold?ideurore.com		> dev. off() library(lattice) library(gsplot2) general construction: gsplot(data = =	DemoCode_DAY_2 DemoCode_DAY_2 DemoCode_DAY_2
	numerical variables general construction: ggplot(data = <data>, mapping =</data>	https://ggplot2.tidyverse.org		> dev. off() library(lattice)	DemoCode_DAY_2 DemoCode_DAY_2
library("boot")	numerical variables general construction: ggplot(data = <data>, mapping = aes(<mappings>)) + <geom_function>()</geom_function></mappings></data>	https://ggplot2.tidyverse.org	ggplot(data = data, mapping = aes(y = RentCount, x = Temperature() +	> dev. off() library(lattice) library(gsplot2) general construction: gsplot(data = =	DemoCode_DAY_2 DemoCode_DAY_2 DemoCode_DAY_2
library("boot") ggplot()	numerical variables general construction: ggplot(data = <data>, mapping = aes(<mappings>)) + <geom_function>()</geom_function></mappings></data>		x = Temperature)) + geom_point()+	> dev.off() Brany(lattice)	Democode_DAY_2 Democode_DAY_2 Democode_DAY_2 Democode_DAY_2 Assignment
library("boot")	numerical variables general construction: ggplot(data = <data>, mapping = aes(<mappings>)) + <geom_function>()</geom_function></mappings></data>	https://ggplot2.tidyverse.org https://ggplot2.tidyverse.org https://ggplot2.tidyverse.org	x = Temperature)) +	> dev. off() library(lattice) library(gsplot2) general construction: gsplot(data = =	DemoCode_DAY_2 DemoCode_DAY_2 DemoCode_DAY_2
library("boot") ggplot() geom_point()	numerical variables general construction: ggplot(data = <data>, mapping = aes(<mappings>)) + <geom_function>()</geom_function></mappings></data>	https://ggplot2.tidyverse.org	x = Temperature)) + geom_point()+ geom_smooth(se = FALSE)	> dev off() Ibrary(statice) Ibrary(sgplot2) general construction: ggplot(data = -CAATA-, mapping = aes(-MAPPINGSS-)) + Ibrary(ggplot2)	DemoCode_DAY_2 DemoCode_DAY_2 DemoCode_DAY_2 Assignment Assignment
library("boot") ggplot() geom_point()	numerical variables general construction: ggplot(data = <data>, mapping = aes(<mappings>)) + <geom_function>()</geom_function></mappings></data>	https://ggplot2.tidyverse.org	x = Temperature!) + geom_point()+ geom_smooth(se = FALSE) ggplot(data = data, mapping = aes(y = RentCount, x = Temperature!) +	> dev off() Ibrary(statice) Ibrary(sgplot2) general construction: ggplot(data = -CAATA-, mapping = aes(-MAPPINGSS-)) + Ibrary(ggplot2)	DemoCode_DAY_2 DemoCode_DAY_2 DemoCode_DAY_2 Assignment Assignment
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library("boot") sgplot() sgeom_point() secom_line()	numerical variables general construction: ggplot(data = <data>, mapping = aes(<mappings>)) + <geom_function>()</geom_function></mappings></data>	https://ggplot2.tidyverse.org https://ggplot2.tidyverse.org https://ggplot2.tidyverse.org Ltest(k, = NALL, allamative = c ^*wo.sided", "less", "greater", "greater", "mu = 0, pained = FALS.E.v.ar.equal =	x = Temperature) + geom_point() + geom_smooth(se = FALSE) ggplot(data = data, mapping = aes(y = RentCount, x = Temperature) + geom_point() +	> dev.off() Bhany(lattice) Bhany(lattice) Bhany(lattice) Bhany(DemoCode_DAY_2 DemoCode_DAY_2 DemoCode_DAY_2 DemoCode_DAY_2 Assignment Assignment Assignment
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Birary("boot") sgpicit sgeom_point() geom_smooth() tiest() lin() anova() update()	numerical variables general construction: ggplot(data = cDATA>, mapping = aes(-MAPPINGS>)) + -GEOM_FUNCTION>() create plot ttest create linear model annova modify an existing model	https://ggplot2.tidyverse.org https://ggplot2.tidyverse.org https://ggplot2.tidyverse.org Lest(x, y = NLL, advanative = c("two.sided", "less", "gas",") mu = 0, paled = FALSE, var.equal = FALSE, conf. level = 0.95,) lm([comlab, data, subset, weights, na. action, method = "q", model = TRUE, x = FALSE, y = FALSE, q = TRUE, gontrasts = NULL, singular o.k = TRUE, contrasts = NULL, singular o.k = TRUE, contrasts = NULL,	x = Temperature) + geom_point() + geom_smooth(se = FALSE) ggplot(data = data, mapping = aes(y = RentCount, x = Temperature) + geom_point() +	> dev.off() Bhany(lattice) Bhany(lattice) Bhany(lattice) Bhany(DemoCode_DAY_2 DemoCode_DAY_2 DemoCode_DAY_2 DemoCode_DAY_2 Assignment Assignment Assignment Assignment Sides_R_Bootcamp_Sept2020_DAY_3 Sides_R_Bootcamp_Sept2020_DAY_3 Sides_R_Bootcamp_Sept2020_DAY_3 Sides_R_Bootcamp_Sept2020_DAY_3
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