Functions used in the tutorial

roadDB package

Package	Function	Comment
roadDB	road_get_localities()	LOD1, returns localities
roadDB	road_get_assemblages()	LOD2, returns assemblages
roadDB	road_get_lithic_typologies()	LOD2, returns assemblages
roadDB	road_get_lithic_raw_materials()	LOD2, returns assemblages
roadDB	road_get_organic_tools()	LOD2, returns assemblages
roadDB	road_get_symbolic_artifacts()	LOD2, returns assemblages
roadDB	road_get_features()	LOD2, returns assemblages
roadDB	road_get_miscellaneous_finds()	LOD2, returns assemblages
roadDB	road_get_human_remains()	LOD2, returns assemblages
roadDB	road_get_paleofauna()	LOD2, returns assemblages
roadDB	road_get_plantremains()	LOD2, returns assemblages
roadDB	road_get_dates()	LOD3, returns dates
roadDB	road_get_publications()	LOD3, returns publications
roadDB	road_list_argument_values()	Returns list of unique values
roadDB	road_summarize_archaeology()	Returns a list of tables, where a search term can be found

Other packages

Package	Function	Comment
Base R	install.packages()	Installs a package from CRAN
Base R	library()	Loads an installed package
Base R	head()	Shows the first few rows of a data frame
Base R	help()	Shows documentation
Base R	View()	Displays the full data frame in RStudio
Base R	c()	Concatenates values
Base R	*object*[*rows*,*columns*]	Subsets rows and columns
Base R	grepl(pattern, x)	returns indices of elements that match pattern
Base R	rbind()	Combines data frames by rows

Base R	cbind()	Combines data frames by columns
Base R	merge()	Join two data frames with matching keys
devtools	install_github()	Installs a package from Github
sf	st_as_sf()	Converts to a 'spatial feature'
tmap	tmap_mode()	Switches between static and interactive map display
tmap	tm_shape()	Displays map
tmap	tm_basemap()	Adds background map
tmap	tm_dots()	Adds dots on map
tmap	tm_layout()	Modifies layout, incl. legend
tidyverse	filter()	Filter rows
tidyverse	str_detect()	Checks for matching patterns
tidyverse	regex()	Regular expressions
tidyverse	ggplot()	Plots a chart
rcarbon	calibrate()	Calibrates C14 Ages
rcarbon	summary()	Displays calibration results
rcarbon	plot()	Displays an age distribution
rcarbon	multiplot()	Displays multiple age distributions

Operator expressions

Operator	**Type**	**Example**
==	Equal	x == y
!=	Not equal	x != y
>	Greater than	x > y
<	Less than	x < y
>=	Greater than or equal to	x >= y
<=	Less than or equal to	x <= y
%in%	Find out if an element belongs to a vector	x %in% y
&	Element-wise Logical AND operator. Returns TRUE if both elements are TRUE	x & y
&&	Logical AND operator - Returns TRUE if both statements are TRUE	x && y
|	Elementwise- Logical OR operator. Returns TRUE if one of the statements is TRUE	x | y
||	Logical OR operator. Returns TRUE if one of the statements is TRUE	x || y
!	Logical NOT - Returns FALSE if statement is TRUE	x ! y