Functions used in the tutorial

# roadDB package

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| **Package** | **Function** | **Comment** |
| roadDB | road\_get\_localities() | LOD1, returns localities |
| roadDB | road\_get\_assemblages() | LOD2, returns assemblages |
| roadDB | road\_get\_human\_remains() | LOD2, returns assemblages |
| roadDB | road\_get\_paleofauna() | LOD2, returns assemblages |
| roadDB | road\_get\_paleobotany() | LOD2, returns assemblages |
| roadDB | road\_get\_lithic\_typology() | LOD2, returns assemblages |
| roadDB | road\_get\_lithic\_raw\_material() | LOD2, returns assemblages |
| roadDB | road\_get\_organic\_tools() | LOD2, returns assemblages |
| roadDB | road\_get\_symbolic\_artifacts() | LOD2, returns assemblages |
| roadDB | road\_get\_feature() | LOD2, returns assemblages |
| roadDB | road\_get\_miscellaneous\_finds() | LOD2, returns assemblages |
| roadDB | road\_get\_dates() | LOD3, returns dates |
| 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

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| **Package** | **Function** | **Comment** |
| Base R | install() | Installs a package from CRAN |
| Base R | library() | Loads an installed package |
| Base R | head() | Shows the first few rows of a dataframe |
| Base R | View() | Displays the full dataframe in RStudio |
| Base R | c() | Concatenates values |
| Base R | *object*[*rows*,*columns*] | Subsets rows and columns; can be names or numbers |
| Base R | grepl(pattern, object) | 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 dackground map |
| tmap | tm\_dots() | Adds dots on map |
| tmap | tm\_layout() | Modifies layout, incl. legend |
| 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

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| --- | --- | --- |
| **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 |