Document (man/

☐ man/ contains the documentation for your functions, the help pages in your package



Use roxygen comments to document each function beside its definition Document the name of each exported data set



WORKFLOW

1. Add roxygen comments in your .R files

2. Convert roxygen comments into documentation with one of:

devtools::document()

Converts roxygen comments to .Rd files and places them in □ man/. Builds NAMESPACE.

Ctrl/Cmd + Shift + D (Keyboard Shortcut)

- 3. Open help pages with ? to preview documentation
- 4. Repeat

Rd FORMATTING TAGS

left \tab centered \tab right \cr \tab cell \cr \code{\link[package]{function}} nemail{name@@foo.com} \code{\link{function}} \link[=dest]{display} \linkS4class{class} \href{url}{display} cell \tab cell tabular{|cr}{ \url{url} \code{function(args)} \deqn{a + b (block)} \eqn{a + b (inline)} \strong{bold text} \emph{italic text} \dontshow{code} \dontrun{code} \donttest{code} \pkg{package}

ROXYGEN2

documentation inline in your .R files with a shorthand syntax. devtools implements The roxygen2 package lets you write roxygen2 to make documentation.



 Place comment lines directly above the code that defines the Add roxygen documentation as comment lines that begin with #'.

object documented.

Place a roxygen @ tag (right) after #' to supply a specific section of documentation. Untagged lines will be used to generate a title, description, and details section (in that order)

@return The sum of \code{x} and \code{y}. Add together two numbers. add <- function(x, y) { @param y A number. @param x A number. Gexamples #' add(1, 1) #" @export × + ×

COMMON ROXYGEN TAGS

		data		S4	RC	
@seealso	@format	@source	@include	@slot	@field	
@inheritParams	@keywords	@param	@rdname	@return	@section	
@aliases	@concepts	@describeIn	@examples	@export	@family	

Teach (□ vignettes/)

→ vignettes/holds documents that teach your users how to solve real problems with your tools.



Create a ☐ vignettes/directory and a template vignette with

Adds template vignette as vignettes/my-vignette.Rmd. Append YAML headers to your vignettes (like right) Write the body of your vignettes in R Markdown devtools::use_vignette()

(rmarkdown.rstudio.com)

%\VignetteIndexEntry{Vignette Title} %\VignetteEngine{knitr::rmarkdown} \usepackage[utf8]{inputenc} date: "`r Sys.Date()`"
output: rmarkdown::html_vignette author: "Vignette Author" title: "Vignette Title" vignette: >

Add Data 🗀 data/

The ☐ data/ directory allows you to include data with your package.



Save data as .Rdata files (suggested)



Adds a data object to data/ devtools::use_data()

(R/Sysdata.rda if internal = TRUE)

devtools::use_data_raw()

Adds an R Script used to clean a data set to data-raw/. Includes data-raw/ on .Rbuildignore.

Store data in

- data/ to make data available to package users
- R/sysdata.rda to keep data internal for use by your functions.
- inst/extdata to make raw data available for loading and parsing examples. Access this data with system.file()

■ NAMESPACE Organize (|

The NAMESPACE file helps you make your package self-contained: it won't interfere with other packages, and other packages won't interfere with it.



Export functions for users by placing @export in their roxygen comments



@importFrom, @importClassesFrom, @importMethodsFrom (not always recommended) Import objects from other packages with package::object (recommended) or @import,

WORKFLOW

- 1. Modify your code or tests.
- 2. Document your package (devtools::document())
- 3. Check NAMESPACE
- 4. Repeat until NAMESPACE is correct

r-pkgs.had.co.nz/release.html **SUBMIT YOUR PACKAGE**