Roxygen Quick Reference

roxygen2 is an R package that allows you to write in-source documentation for your package functions and objects.

Write documentation above your package functions with the #' comment prefix.

Documenting Functions

Example

```
#' This is the title.
#'
#' This is the description.
#'
#' These are further details.
#'
#' @section A Custom Section:
#'
#' Text accompanying the custom section.
#'
#' @param x A description of the parameter 'x'. The
#'   description can span multiple lines.
#' @param y A description of the parameter 'y'.
#'
#' @export
#'
#' @examples
#' add_numbers(1, 2) ## returns 3
#'
#' ## don't run this in calls to 'example(add_numbers)'
#' \dontrun{
#'    add_numbers(2, 3)
#' }
#'
#' ## don't test this during 'R CMD check'
#' \donttest{
#'    add_numbers(4, 5)
#' }
add_numbers <- function(x, y) {
     x + y
}
```

Common Tags

@param <name> <description>	Document a function parameter.
@export	Make this function available to users of your package.
@examples <r-code>	Inline R code showing how the function is used. Wrap code blocks in **\dontrun{}** to prevent them from running on calls to **example()**. Use **\donttest{}** to disable running this code in **R CMD check**.
@return	Describe what this function returns.
@family <family-name>	Automatically generate links to other functions within this family in the documentation's **See Also** section.
@seealso	Provide links to other resources that could help users understand how to use your

	function.
`@inheritParams <function>`	Re-use parameter documentation from another function. Use **`@inheritParams <package::function>`** to re-use documentation from a function in a separate package.
`@section <name>:`	Provide a custom section with the name **`<name>`**. The line must end with a colon (**`:`**).

In addition, you can use **`@keywords internal`** to ensure that documentation for a particular function is generated, but not added to the package index.

Documenting Packages

By convention, package documentation is usually included in a file `R/<package-name>-package.R`. The `roxygen` block providing package documentation should contain the `@docType package` field declaration, and should end with `NULL`.

Example

```
#' Package Name
#'
#' Package description.
#'
#' @docType package
#' @name <package-name>
#' @import assertthat
#' @importFrom utils head tail
#' @useDynLib <package-name>
NULL
```

Common Tags

`@import <pkg>`	Import all symbols from a package, for use in your own package's functions.
`@importFrom <pkg> <symbols...>`	Selectively import symbols from a package, for use in your own package's functions.
`@useDynLib <own-pkg>`	Include this if your package contains C / C++ code.

Rd Markup

Use `R Documentation` LaTeX-style markup to further style your documentation.

`\emph{}`	For *italicized* text.
`\strong{}`	For **bold** text.
`\code{}`	For **`code`** or otherwise **`pre-formatted`** text.
`\link{object}` **`\link[=class]{object}`** **`\linkS4class{S4Class}`**	Used to link to other **`R`** documentation. For example, use **`\code{\link{rnorm}}`** to link to the documentation associated with the **`rnorm`** function.
`\url{URL}` **`\href{URL}{text}`**	Link to content on the internet; for example, external documentation. Use **`\href{URL}{text}`** if you want the displayed text to differ from the linked URL.

\enumerate{<items...>}
\itemize{<items...>}
\describe{<items...>}
	Provide a list of items. **\enumerate{}** delimits entries with sequential numbers, while **\itemize{}** delimits entries with bullets.
	`\enumerate{`
	`  \item Item 1.`
	`  \item Item 2.`
	`  \item Item 3.`
	`}`
	\describe{} differs in that items are specified with labels as well as text, e.g.
	`\describe{`
	`  \item{label-1}{text-1}`
	`  \item{label-2}{text-2}`
	`}`

\tabular{alignment}{text}	Provide a table of text.
	Separate fields with **\tab**, and rows with **\cr**. **alignment** is a string of **l** / **c** / **r**, indicating **l**eft, **c**enter, and **r**ight alignment respectively. There should be one letter for each column in the table.
	`\tabular{rl}{`
	`  Entry 1 \tab Entry 2 \cr`
	`  Entry 3 \tab Entry 4 \cr`
	`}`

Learning More

Read Hadley Wickham's guide in R Packages to learn more about how to use `roxygen2` and `devtools` to produce documentation for your R packages.

Read the roxygen vignettes: start with the introductory vignette with `vignette("roxygen2")`, and view other available vignettes with `vignette(package = "roxygen2")`.

Read R-exts for a comprehensive guide to `.Rd` documentation and the set of available tags (which are understood by `roxygen` as well).