Package 'MakefileR'

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Encoding UTF-8 Title Create 'Makefiles' Using R Description A user-friendly interface for the construction of 'Makefiles'. Version 1.0 Date 2016-01-08 Imports magrittr Suggests testthat, knitr, rmarkdown License GPL-3 LazyData true URLNote https://github.com/krlmlr/MakefileR URL http://krlmlr.github.io/MakefileR BugReports https://github.com/krlmlr/MakefileR/issues VignetteBuilder knitr **RoxygenNote** 5.0.1.9000 NeedsCompilation no Author Kirill Müller [aut, cre]

Maintainer Kirill Müller <krlmlr+r@mailbox.org> Repository CRAN

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makefile

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Description

Rules can be appended to groups and Makefiles using the c function or the + operator.

Usage

```
## S3 method for class 'MakefileR_group'
c(..., recursive = FALSE)
## S3 method for class 'MakefileR_group'
x + y
```

Arguments

, х, у	[MakefileR]
	Rules, the first (x or the first element of \dots) must be of class MakefileR_group
	(created by make_group or makefile)
recursive	[any]
	Unused

Examples

makefile	Creates a Makefile	
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Description

A Makefile consists of a list of rules, definition, comments and other items.

Usage

makefile(..., .dots = NULL)

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make_comment

Arguments

	[MakefileR] Items created by make_rule or other make_ functions
.dots	[list] Further rules in addition to

Details

Use the c function or the + operator to append rules, definitions, comments, plain text, and groups.

Value

An object of class MakefileR_file

References

https://www.gnu.org/software/make/manual/

See Also

make_rule, make_def, make_comment, make_text, make_group, c.MakefileR_group

Examples

makefile(make_rule("all", c("first_target", "second_target")))

make_comment Creates a Makefile comment

Description

For helping the reader understand what's happening

Usage

make_comment(...)

Arguments

... [character] Comments without leading hash #

Details

Use the c function or the + operator to append comments to groups and Makefiles.

Value

An object of class MakefileR_comment

References

https://www.gnu.org/software/make/manual/

See Also

Other items: make_def, make_group, make_rule, make_text

Examples

make_comment("This is a comment")

make_def

Creates a variable definition in a Makefile

Description

A variable definition in a Makefile consists of a variable name and its defition. Both are separated by the equality sign =.

Usage

make_def(variable, definition)

Arguments

variable	[character(1)] Variable name
definition	[character(1)] Definition for this variable

Details

No quoting is applied to the definition by this function. Currently, both variable and definition are required to be character values of length one.

Use the c function or the + operator to append definitions to groups and Makefiles.

Value

An object of class MakefileR_def

References

https://www.gnu.org/software/make/manual/

make_group

See Also

makefile, make_group

Other items: make_comment, make_group, make_rule, make_text

Examples

```
make_def("R_USER_LIBRARY", .libPaths()[[1L]])
makefile() +
make_def("R_USER_LIBRARY", .libPaths()[[1L]])
```

make_group

Creates a group of Makefile items

Description

Helps separating similar rules.

Usage

make_group(..., .dots = NULL, sep = NULL)

Arguments

	[MakefileR] Items created by make_rule or other make_ functions
.dots	[list] Further rules in addition to
sep	[character(1)] Separator between group items, NULL (the default) means no separator.

Details

Use the c function or the + operator to append groups to other groups and Makefiles (thus creating nested groups).

Value

An object of class MakefileR_group

References

https://www.gnu.org/software/make/manual/

See Also

c.MakefileR_group
Other items: make_comment, make_def, make_rule, make_text

Examples

```
makefile(make_rule("all", c("first_target", "second_target")))
```

make_rule

Creates a Makefile rule

Description

A rule in a Makefile consists of a (list of) targets which may depend on one or more dependencies each. Optionally, a script is executed to create the target. Generally, multiple targets mean that the rule is identical for each of the individual targets, and multiple dependencies mean that *all* of them are required to build *each* of the targets. In the script, the target can be referenced by \$@, and the first dependency can be referenced by \$<. Note that the dollar sign has a special meaning in a Makefile, use \$\$ in scripts that need to use the dollar sign themselves.

Usage

```
make_rule(targets, deps = NULL, script = NULL)
```

Arguments

targets	[character] Target names
deps	[character] Dependency names
script	[character] A script to execute to build the targets.

Details

Use the c function or the + operator to append rules to groups and Makefiles.

Value

An object of class MakefileR_rule

References

https://www.gnu.org/software/make/manual/

See Also

makefile

Other items: make_comment, make_def, make_group, make_text

make_text

Examples

```
make_text
```

Creates a custom Makefile entry

Description

For anything else not covered by the other make_ functions, such as the export statement for exporting Makefile variables.

Usage

make_text(...)

Arguments

... [character] Custom text

Details

Use the c function or the + operator to append comments to groups and Makefiles.

Value

An object of class MakefileR_text

References

https://www.gnu.org/software/make/manual/

See Also

Other items: make_comment, make_def, make_group, make_rule

Examples

```
make_text("export SOME_VARIABLE")
```

write_makefile Writes a Makefile to a file

Description

Makefiles, as created by makefile, only exist in memory until they are written to a file by this function.

Usage

write_makefile(makefile, file_name)

Arguments

makefile	[MakefileR] A Makefile, created by makefile
file_name	[character(1)] Target file name

Value

The value returned by writeLines

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