Package 'MakefileR'

October 12, 2022

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
<pre>URL http://krlmlr.github.io/MakefileR</pre>
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 Date/Publication 2016-01-08 15:55:12 R topics documented:</krlmlr+r@mailbox.org>
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```
c.MakefileR_group Concatenation of rules
```

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

```
..., x, y

[MakefileR]

Rules, the first (x or the first element of ...) must be of class MakefileR_group
(created by make_group or makefile)

recursive

[any]

Unused
```

Examples

makefile

Creates a Makefile

Description

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

Usage

```
makefile(..., .dots = NULL)
```

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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.

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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/

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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

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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

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Examples

```
make_rule("all", c("first_target", "second_target"))
make_rule(".FORCE")
make_rule("first_target", ".FORCE", "echo 'Building first target'")
make_rule("second_target", "first_target",
    c("echo 'Building second target'", "echo 'Done'"))

makefile() +
    make_rule("all", c("first_target", "second_target")) +
    make_rule(".FORCE") +
    make_rule("first_target", ".FORCE", "echo 'Building first target'") +
    make_rule("second_target", "first_target",
    c("echo 'Building second target'", "echo 'Done'"))
```

 $make_text$

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
```

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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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