

# Package ‘fakemake’

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**Title** Mock the Unix Make Utility

**Version** 1.10.1

**Description** Use R as a minimal build system. This might come in handy if you are developing R packages and can not use a proper build system. Stay away if you can (use a proper build system).

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**URL** <https://gitlab.com/fvafrcu/fakemake>

**Depends** R (>= 3.3.0)

**Imports** graphics, fritools, igraph, MakefileR, utils

**Suggests** cleanr, covr, cyclocomp, devtools, hunspell, knitr, lintr, packager (>= 1.5.0), pkgbuild, pkgload, rasciidoc, rmarkdown, roxygen2, rprojroot, RUnit, spelling, testthat, withr, usethis

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**Description**

Use R as a minimal build system. This might come in handy if you are developing R packages and can not use a proper build system. Stay away if you can (use a proper build system).

**Details**

You will find the details in  
 vignette("An\_Introduction\_to\_fakemake", package = "fakemake").

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|            |                                   |
|------------|-----------------------------------|
| add_target | <i>Add a Target to a Makelist</i> |
|------------|-----------------------------------|

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**Description**

Add a target to an existing makelist.

**Usage**

```
add_target(
  makelist,
  target,
  code,
  prerequisites = NULL,
  prerequisite_to = NULL,
  sink = NULL,
  alias = sub("\\.(Rout|log)$", "", basename(target))
)
```

**Arguments**

|                 |   |
|-----------------|---|
| makelist        | A list for <a href="#">make</a> .   |
| target          | The target to remove from makelist.   |
| code            | The code for the new target.  |
| prerequisites   | The prerequisites for the new target.   |
| prerequisite_to | The targets the new target is a prerequisite to. Set to <a href="#">TRUE</a> to add it as a prerequisite to all existing targets. |
| sink            | The sink for the new target.  |
| alias           | The alias for the new target.   |

**Value**

A list for [make](#).

**See Also**

Other functions to manipulate makelists: [get\\_target\(\)](#), [remove\\_target\(\)](#)

---

get\_target

*Get a Makelist's Target*

---

**Description**

Get a single target from a makelist by alias.

**Usage**

```
get_target(makelist, alias)
```

**Arguments**

makelist      A list for [make](#).  
alias          The alias of the target in question.

**Value**

A list (the target requested).

**See Also**

Other functions to manipulate makelists: [add\\_target\(\)](#), [remove\\_target\(\)](#)

**Examples**

```
m1 <- provide_make_list()
visualize(m1, root = "all.Rout")
i <- which(sapply(m1, "[[", "target") == "b1.Rout")
m1[[i]][["alias"]] <- "b1"
t <- get_target(m1, "b1")
m1 <- remove_target(m1, t[["target"]])
visualize(m1)
m1 <- add_target(m1, target = t[["target"]], code = t[["code"]],
                sink = t[["sink"]],
                prerequisite_to = "a1.Rout", alias = NULL)
all.equal(m1, provide_make_list())
```

---

 make

*Mock the Unix Make Utility*


---

## Description

Mock the Unix Make Utility

## Usage

```
make(
  name,
  make_list,
  force = FALSE,
  recursive = force,
  verbose = FALSE,
  verbosity = 2,
  dry_run = FALSE,
  unconditionally = FALSE,
  stop_on_warning = FALSE
)
```

## Arguments

|                 |  |
|-----------------|--|
| name            | The name or alias of a make target.  |
| make_list       | The makelist (a listed version of a Makefile).   |
| force           | Force the target to be build? See <i>Details</i> .   |
| recursive       | Force the target to be build recursively? See <i>Details</i> .                                     |
| verbose         | Be verbose?  |
| verbosity       | Give the level of verbosity.   |
| dry_run         | Run dry? Mock GNU make's -n option.  |
| unconditionally | Force the target's code to be evaluated unconditionally to any prerequisites? See <i>Details</i> . |
| stop_on_warning | <a href="#">Throw an error and abort</a> if a recipe throws a <a href="#">warning</a> ?            |

## Details

force, recursive

Forcing a target mocks adding .PHONY to a GNU Makefile if you set recursive to FALSE. If recursive is TRUE, then the whole make chain will be forced.

unconditionally

Setting unconditionally to [TRUE](#) allows you to fool [make](#) similarly to using GNU make's -touch option.

**Value**

**Invisibly** a character vector containing the targets made during the current run.

**Examples**

```
str(make_list <- provide_make_list("minimal"))
# build all
withr::with_dir(tempdir(), print(make("all.Rout", make_list)))
# nothing to be done
withr::with_dir(tempdir(), print(make("all.Rout", make_list)))
# forcing all.Rout
withr::with_dir(tempdir(), print(make("all.Rout", make_list, force = TRUE,
                                     recursive = FALSE)))
# forcing all.Rout recursively
withr::with_dir(tempdir(), print(make("all.Rout", make_list, force = TRUE)))

# show files
dir(tempdir(), pattern = ".*\\.Rout")

# dry run
file.remove(dir(tempdir(), pattern = ".*\\.Rout", full.names = TRUE))
withr::with_dir(tempdir(), print(make("all.Rout", make_list,
                                     dry_run = TRUE)))
dir(tempdir(), pattern = ".*\\.Rout")

# make unconditionally
dir(tempdir(), pattern = ".*\\.Rout")
withr::with_dir(tempdir(), print(make("all.Rout", make_list,
                                     unconditionally = TRUE)))
dir(tempdir(), pattern = ".*\\.Rout")
```

---

provide\_make\_list      *Load an Example Makelist Provided by **fakemake**.*

---

**Description**

Load an Example Makelist Provided by **fakemake**.

**Usage**

```
provide_make_list(
  type = c("minimal", "testing", "vignette"),
  prune = TRUE,
  clean_sink = FALSE
)
```

**Arguments**

|            |  |
|------------|--|
| type       | The type of makelist. package makelist.  |
| prune      | Prune the makelist of NULL items?  |
| clean_sink | Remove sinks identical to corresponding targets from the list? Since makelists are parsed, missing sinks are set to the corresponding targets, but this makes them harder to read. |

**Value**

A makelist.

**Examples**

```
str(provide_make_list("minimal"))
visualize(provide_make_list("minimal"))
```

---

|               |  |
|---------------|--|
| remove_target | <i>Remove a Target From a Makelist</i> |
|---------------|--|

---

**Description**

Remove a target and all its appearances as other targets' dependencies from a makelist.

**Usage**

```
remove_target(makelist, target)
```

**Arguments**

|          |                                     |
|----------|-------------------------------------|
| makelist | A list for <a href="#">make</a> .   |
| target   | The target to remove from makelist. |

**Value**

A list for [make](#).

**See Also**

Other functions to manipulate makelists: [add\\_target\(\)](#), [get\\_target\(\)](#)

---

`visualize`*Visualize a Makelist*

---

**Description**

Parse a makelist, convert it into an igraph and plot it.

**Usage**

```
visualize(make_list, root = NULL)
```

**Arguments**

|                        |                     |
|------------------------|---------------------|
| <code>make_list</code> | The makelist.       |
| <code>root</code>      | The root of a tree. |

**Value**

Invisibly an **igraph** representation of the makelist.

**Examples**

```
str(ml <- provide_make_list())  
visualize(ml)  
visualize(ml, root = "all.Rout")
```

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