

# Package: makeit (via r-universe)

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**Title** Run R Scripts if Needed

**Suggests** dplyr, ggplot2, knitr, readr, rmarkdown

**Description** Automation tool to run R scripts if needed, based on last modified time. It comes with no package dependencies, organizational overhead, or structural requirements. In short: run an R script if underlying files have changed, otherwise do nothing.

**License** GPL-3

**URL** <https://github.com/arni-magnusson/makeit>

**VignetteBuilder** knitr

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Roxygen** list(old\_usage=TRUE)

**Repository** <https://arni-magnusson.r-universe.dev>

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make

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*Run R Script if Needed*


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## Description

Run an R script if underlying files have changed, otherwise do nothing.

## Usage

```
make(recipe, prereq, target, include = TRUE, details = FALSE,
      force = FALSE, recon = FALSE, quiet = FALSE, ...)
```

## Arguments

|         |                                                                                                                                                    |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| recipe  | script filename.                                                                                                                                   |
| prereq  | one or more files required by the script. For example, data files, scripts, or NULL.                                                               |
| target  | one or more output files produced by the script. Directory names can also be used.                                                                 |
| include | whether to automatically include the script itself as a prerequisite file. This means that if the script file has been modified, it should be run. |
| details | whether to show a diagnostic table of files and time last modified.                                                                                |
| force   | whether to run the R script unconditionally.                                                                                                       |
| recon   | whether to return TRUE or FALSE, without actually running the R script.                                                                            |
| quiet   | whether to suppress messages.                                                                                                                      |
| ...     | passed to source.                                                                                                                                  |

## Details

A `make()` call has the general form

```
make("analysis.R", "input.dat", "output.dat")
```

which can be read aloud as:

“script *x* uses *y* to produce *z*”

## Value

TRUE or FALSE, indicating whether the script was run.

## Note

This function provides functionality similar to makefile rules, to determine whether a script should be (re)run or not.

If any target is either missing or is older than any prereq, then the script is run.

## References

Stallman, R. M. *et al.* An introduction to makefiles. Chapter 2 in the *GNU Make manual*.

## See Also

See `vignette("makeit")` for annotated examples and discussion.

`file.exists` and `file.mtime` are the underlying functions used to check if files are missing or have changed.

`source` is the underlying function to run a script.

## Examples

```
# Copy examples 'analysis' and 'sequential' to temporary directory
exdir <- tempdir()
file.copy(system.file("examples/analysis", package="makeit"),
          exdir, recursive=TRUE)
file.copy(system.file("examples/sequential", package="makeit"),
          exdir, recursive=TRUE)
owd <- getwd()

# This analysis uses input.dat to produce output.dat
setwd(file.path(exdir, "analysis"))
dir()
make("analysis.R", "input.dat", "output.dat") # Running analysis.R
dir()
make("analysis.R", "input.dat", "output.dat") # Nothing to be done

# Suppress message, show last modified
make("analysis.R", "input.dat", "output.dat", quiet=TRUE)
make("analysis.R", "input.dat", "output.dat", details=TRUE)

# Sequential scripts
setwd(file.path(exdir, "sequential"))
print.simple.list(dir(recursive=TRUE))
make("01_model.R", "data.dat", "results.dat")
make("02_plots.R", "results.dat", c("plots/A.png", "plots/B.png"))
make("03_tables.R", "results.dat", c("tables/A.csv", "tables/B.csv"))
print.simple.list(dir(recursive=TRUE))

# Clean up
unlink(file.path(exdir, c("analysis", "sequential")), recursive=TRUE)
setwd(owd)

# See vignette("makeit") for more examples and discussion
```

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