

# Package ‘dockerfiler’

April 3, 2019

**Title** Easy Dockerfile Creation from R

**Version** 0.1.3

**Description** Build a Dockerfile straight from your R session. 'dockerfiler' allows you to create step by step a Dockerfile, and provide convenient tools to wrap R code inside this Dockerfile.

**License** MIT + file LICENSE

**URL** <https://github.com/ColinFay/dockerfiler>

**BugReports** <https://github.com/ColinFay/dockerfiler/issues>

**Imports** attempt, glue, R6, utils

**Suggests** covr, testthat, knitr, rmarkdown

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.0

**VignetteBuilder** knitr

**NeedsCompilation** no

**Author** Colin Fay [cre, aut]

**Maintainer** Colin Fay <[contact@colinfay.me](mailto:contact@colinfay.me)>

**Repository** CRAN

**Date/Publication** 2019-03-19 16:10:03 UTC

## R topics documented:

Dockerfile . . . . .	1
dock_from_desc . . . . .	3
r . . . . .	4

---

Dockerfile

*A Dockerfile template*


---

## Description

A Dockerfile template

## Usage

Dockerfile

## Format

An object of class `R6ClassGenerator` of length 24.

## Value

A dockerfile template

## Methods

`RUN` add a `RUN` command  
`ADD` add a `ADD` command  
`COPY` add a `COPY` command  
`WORKDIR` add a `WORKDIR` command  
`EXPOSE` add an `EXPOSE` command  
`VOLUME` add a `VOLUME` command  
`CMD` add a `CMD` command  
`LABEL` add a `LABEL` command  
`ENV` add a `ENV` command  
`ENTRYPOINT` add a `ENTRYPOINT` command  
`VOLUME` add a `VOLUME` command  
`USER` add a `USER` command  
`ARG` add an `ARG` command  
`ONBUILD` add a `ONBUILD` command  
`STOPSIGNAL` add a `STOPSIGNAL` command  
`HEALTHCHECK` add a `HEALTHCHECK` command  
`STOPSIGNAL` add a `STOPSIGNAL` command  
`SHELL` add a `SHELL` command  
`MAINTAINER` add a `MAINTAINER` command  
`custom` add a custom command  
`write` save the Dockerfile  
`switch_cmd` switch two command  
`remove_cmd` remove\_cmd one or more command(s)

## Examples

```
my_dock <- Dockerfile$new()
```

---

dock_from_desc	<i>Docker file from DESCRIPTION</i>
----------------	-------------------------------------

---

## Description

This function will parse a DESCRIPTION file and create a Dockerfile that remotes::install\_cran all the functions from the Imports section, add the COPY of the tar.gz of the package, and install the package.

## Usage

```
dock_from_desc(path = "DESCRIPTION", FROM = "rocker/r-base",  
  AS = NULL)
```

## Arguments

path	Path to DESCRIPTION
FROM	FROM of the Dockerfile
AS	AS of the Dockerfile

## Value

A Dockerfile Object.

## Note

After this Dockerfile is created, the package should be built and be put in the same directory as the dockerfile.

## Examples

```
## Not run:  
my_dock <- dock_from_desc("DESCRIPTION")  
my_dock  
my_dock$CMD(r(library(dockerfiler)))  
my_dock$add_after(  
  cmd = "RUN R -e 'remotes::install_cran(\"rlang\")'",  
  after = 3  
)  
  
## End(Not run)
```

---

<b>r</b>	<i>Turn an R call into an Unix call</i>
----------	---

---

**Description**

Turn an R call into an Unix call

**Usage**

```
r(code)
```

**Arguments**

code	the function to call
------	----------------------

**Value**

an unix R call

**Examples**

```
r(print("yeay"))  
r(install.packages("plumber", repo = "http://cran.irsn.fr/"))
```