

README

argparser is a cross-platform command-line argument parser for R, written in R, with no external dependencies. This package is useful with the Rscript front-end and facilitates turning an R script into an executable script.

History

- v0.4 (in progress) *Incompatibility*: '-' in argument names are substitute by '_'
- v0.3 Added support for multi-valued arguments
- v0.2 Function names change *Incompatibility*: '.' in function names are replaced with '_'
- v0.1 Initial release

Dependencies

- R (≥ 3.0)
- roxygen2 (≥ 4.0 , for building only)

Build

Clone the repository, build the documentation with roxygen2, then install.

```
$ git clone https://bitbucket.org/dshih/argparser.git
$ cd argparser
$ R
```

```
R> library(roxygen2)
R> roxygenize()
R> quit()
```

```
$ R CMD INSTALL .
```

Usage

Create a R script (e.g. round.R) with a shebang line (Linux only).

Import the argparser library, create a parser, populate the parser with arguments and parse the command line arguments.

```
#!/usr/bin/env Rscript
```

```
library(argparser, quietly=TRUE)
```

```
# Create a parser
p <- arg_parser("Round a floating point number")
```

```
# Add command line arguments
p <- add_argument(p, "number", help="number to round", type="numeric")
p <- add_argument(p, "--digits", help="number of decimal places", default=0)
```

```
# Parse the command line arguments
argv <- parse_args(p)
```

```
# Do work based on the passed arguments
cat( round(argv$number, argv$digits), "\n")
```

Then, set the R script as executable and execute (Linux only).

```
$ chmod +x round.R
```

```
# Print the help message
$ ./round.R -h
```

Alternatively, run the script using Rscript (Linux or Windows).

```
$ Rscript round.R 3.141
# 3
```

```
$ Rscript round.R 3.141 -d 2
# 3.14
```

For R help, see `?argparser`.