

Package ‘argparse’

February 15, 2023

Type Package

Title Command Line Optional and Positional Argument Parser

Version 2.2.2

Description A command line parser to
be used with 'Rscript' to write ``#!" shebang scripts that gracefully
accept positional and optional arguments and automatically generate usage.

License GPL (>= 2)

Copyright See file (inst/)COPYRIGHTS.

URL <https://github.com/trevorld/r-argparse>

BugReports <https://github.com/trevorld/r-argparse/issues>

LazyLoad yes

Depends R (>= 3.6.0)

Imports R6, findpython, jsonlite

SystemRequirements python (>= 3.2)

Suggests knitr (>= 1.15.19), rmarkdown, testthat

VignetteBuilder knitr

RoxygenNote 7.1.2

Encoding UTF-8

NeedsCompilation no

Author Trevor L Davis [aut, cre] (<<https://orcid.org/0000-0001-6341-4639>>),
Allen Day [ctb] (Some documentation and examples ported from the getopt
package.),
Python Software Foundation [ctb] (Some documentation from the argparse
Python module.),
Paul Newell [ctb]

Maintainer Trevor L Davis <trevor.l.davis@gmail.com>

Repository CRAN

Date/Publication 2023-02-15 19:50:02 UTC

R topics documented:

ArgumentParser 2

Index 4

ArgumentParser *Create a command line parser*

Description

ArgumentParser creates a parser object that acts as a wrapper to Python's argparse module

Usage

```
ArgumentParser(..., python_cmd = NULL)
```

Arguments

... Arguments cleaned and passed to Python's argparse.ArgumentParser()
python_cmd Python executable for argparse to use. Must have argparse and json modules (automatically included Python 2.7 and 3.2+). If you need Unicode argument support then you must use Python 3.0+. Default will be to use findpython package to find suitable Python binary.

Value

ArgumentParser returns a parser object which contains an add_argument function to add arguments to the parser, a parse_args function to parse command line arguments into a list, a print_help and print_usage function to print usage information. See code examples, package vignette, and corresponding python module for more information on how to use it.

References

Python's argparse library, which this package is based on, is described here: <https://docs.python.org/3/library/argparse.html>

Examples

```
if (argparse:::detects_python()) {
  parser <- ArgumentParser(description='Process some integers')
  parser$add_argument('integers', metavar='N', type = "integer", nargs='+',
    help='an integer for the accumulator')
  parser$add_argument('--sum', dest='accumulate', action='store_const',
    const='sum', default='max',
    help='sum the integers (default: find the max)')
  parser$print_help()
  # default args for ArgumentParser()$parse_args are commandArgs(TRUE)
```

```
# which is what you'd want for an Rscript but not for interactive use
args <- parser$parse_args(c("--sum", "1", "2", "3"))
accumulate_fn <- get(args$accumulate)
print(accumulate_fn(args$integers))
}
```

Index

ArgumentParser, [2](#)