

Package ‘argparse’

October 19, 2020

Type Package

Title Command Line Optional and Positional Argument Parser

Version 2.0.3

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.

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

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

LazyLoad yes

Imports R6, findpython, jsonlite

SystemRequirements python (>= 3.2)

Suggests knitr (>= 1.15.19), rmarkdown, testthat

VignetteBuilder knitr

RoxygenNote 7.1.1

Encoding UTF-8

NeedsCompilation no

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Repository CRAN

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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.

Acknowledgement

A big thanks to Martin Diehl for a bug report.

References

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

Examples

```
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))
```

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