Package 'cyclocomp'

August 30, 2023

Title Cyclomatic Complexity of R Code	
Version 1.1.1	
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Description Cyclomatic complexity is a software metric (measurement), used to indicate the complexity of a program. It is a quantitative measure of the number of linearly independent paths through a program's source code. It was developed by Thomas J. McCabe, Sr. in 1976.	
License MIT + file LICENSE	
URL https://github.com/gaborcsardi/cyclocomp	
BugReports https://github.com/gaborcsardi/cyclocomp/issues	
Imports callr, crayon, desc, remotes, withr	
Suggests testthat	
RoxygenNote 7.2.3	
Encoding UTF-8	
NeedsCompilation no	
Repository CRAN	
Date/Publication 2023-08-30 17:00:22 UTC	
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cyclocomp

Cyclomatic Complexity of R Code

Description

Cyclomatic complexity is a software metric (measurement), used to indicate the complexity of a program. It is a quantitative measure of the number of linearly independent paths through a program's source code. It was developed by Thomas J. McCabe, Sr. in 1976.

Calculate the cyclomatic complexity of an R function or expression.

Usage

```
cyclocomp(expr)
cyclocomp_q(expr)
```

Arguments

expr

An R function or expression.

Value

Integer scalar, the cyclomatic complexity of the expression.

See Also

Useful links:

- https://github.com/gaborcsardi/cyclocomp
- Report bugs at https://github.com/gaborcsardi/cyclocomp/issues

Other cyclomatic complexity: cyclocomp_package_dir(), cyclocomp_package()

Examples

```
## Supply a function
cyclocomp(
   function(arg) { calulate(this); and(that) }
)
cyclocomp(ls)
cyclocomp(cyclocomp)

## Or a quoted expression
cyclocomp(quote( if (condition) "foo" else "bar" ))

## cyclocomp_q quotes the expression for you
cyclocomp_q(while (condition) { loop })

## Complexity of individual control flow constructs
```

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```
cyclocomp(quote({
  if (condition) this
}))
cyclocomp(quote({
  if (condition) this else that
}))
cyclocomp(quote({
  for (var in seq) expr
}))
cyclocomp(quote({
  while (cond) expr
}))
cyclocomp(quote({
  repeat expr
}))
cyclocomp(quote({
  for (var in seq) {
   this
   break
    that
}))
cyclocomp(quote({
  for (var in seq) {
   this
   next
    that
  }
}))
```

cyclocomp_package

Cyclomatic complexity of the objects in an installed package

Description

Note that the package must be installed.

Usage

```
cyclocomp_package(package)
```

Arguments

package

Package name, character scalar.

Value

Data frame with two columns: name and cyclocomp.

See Also

Other cyclomatic complexity: cyclocomp_package_dir(), cyclocomp()

Examples

```
## They might take a while to run
## Not run:
cyclocomp_package("grDevices")
cyclocomp_package("methods")
## End(Not run)
```

cyclocomp_package_dir Cyclomatic complexity of a local package

Description

Automatically builds the package and installs it to a temporary directory.

Usage

```
cyclocomp_package_dir(path = ".")
```

Arguments

path

Path to the root directory of the R package.

Value

Data frame with two columns: name and cyclocomp.

See Also

Other cyclomatic complexity: cyclocomp_package(), cyclocomp()

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