Package ‘cyclocomp’

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Title  Cyclomatic Complexity of R Code
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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.
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LazyData  true
URL  https://github.com/MangoTheCat/cyclocomp
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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
Other cyclomatic complexity: cyclocomp_package_dir, cyclocomp_package

Examples

```r
## 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(while (condition) { loop })

## Complexity of individual control flow constructs
cyclocomp(quote({
  if (condition) this
})
)
cyclocomp(quote({
```
cyclocomp_package

```r
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**

```r
cyclocomp_package(package)
```

**Arguments**

- `package`  
  Package name, character scalar.

**Value**

Data frame with two columns: name and cyclocomp.
cyclocomp_package_dir

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_dir, cyclocomp
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