Package ‘icecream’

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Type Package

Title Print Debugging Made Sweeter

Version 0.2.0

Description Provides user-friendly and configurable print debugging via a single function, ic(). Wrap an expression in ic() to print the expression, its value and (where available) its source location. Debugging output can be toggled globally without modifying code.

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BugReports https://github.com/lewinfox/icecream/issues

Imports cli, glue, pillar (>= 1.6.1), purrr (>= 0.3.4), rlang

Suggests checkmate (>= 2.0.0), testthat (>= 3.0.0), withr

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R topics documented:

  enable-disable .................................................. 2
  ic .............................................................. 2
ic-singl-use
ic_autopeek
ic_autopeek_header

Index

enable-disable   Enable or disable ic()

Description
These functions enable or disable the ic() function. While disabled ic() will do nothing except evaluate and return its input.

Usage
ic_enable()

ic_disable()

Details
These are just convenience wrappers for options(icecream.enabled = TRUE/FALSE) used to align the API with the Python version.

Value
Returns the old value of the option, invisibly.

Functions
- ic_enable: Enable ic().
- ic_disable: Disable ic().

ic   User-friendly debug statements

Description
User-friendly debug statements

Usage
ic(x)

Arguments
x  An expression, or nothing
`ic-single-use`

**Value**

If `x` is an expression, returns the result of evaluating `x`. If `x` is missing nothing is returned.

**Examples**

```r
f <- function(x) x < 0
ic(f(1))
ic(f(-1))
```

---

**ic-single-use**

Temporarily enable or disable `ic()`

---

**Description**

These functions let you evaluate an expression with either `ic()` enabled or disabled without affecting if `ic()` is enabled globally.

**Usage**

```r
with_ic_enable(expr)
with_ic_disable(expr)
```

**Arguments**

- `expr`: An expression containing the `ic()` function.

**Value**

Returns the result of evaluating the expression.

**Functions**

- `with_ic_enable`: evaluates the expression with `ic()` enabled.
- `with_ic_disable`: evaluates the expression with `ic()` disabled.

**Examples**

```r
ic_enable()
fun <- function(x) {
  ic(x * 100)
}
fun(2)
```
ic_autopeek

```r
with_ic_disable(fun(2))
fun(4)
ic_disable()
fun(1)
with_ic_enable(fun(1))
```

---

**ic_autopeek**  
Get descriptive one-line summary of an object

### Description

This function is created as a modification of `utils::str()` function. It is supposed to create more compacted yet informative summary about an object. It's default value of "icecream.peeking.function"

### Usage

```r
ic_autopeek(object, ...)
```

#### S3 method for class 'list'

```r
ic_autopeek(object, max_summary_length = cli::console_width(), ...)
```

#### S3 method for class 'data.frame'

```r
ic_autopeek(object, max_summary_length = cli::console_width(), ...)
```

### Arguments

- **object**  
The object to be summarized.
- **...**  
Other arguments passed to methods.
- **max_summary_length**  
Integer. Maximum length of string summarizing the object. By default this is set to the current terminal width.

### Details

This is a generic function. Default method simply calls `utils::str` function.

### Value

The function is mainly used for its side effects – outputting to the terminal. However, it also returns an invisible string of the printed summary.

### Methods (by class)

- **list**: Method for list
- **data.frame**: Method for data.frame
ic_autopeek_header

See Also

utils::str() ic.peek()

ic_autopeek_header  Get a header of the object peeked at

Description

Get a header of the object peeked at

Usage

ic_autopeek_header(object, ...)

Arguments

object  The object peeked at.
...  Other arguments passed to methods.

Details

This function is used by ic_autopeek to get a header of the summary of a object. It should return object’s top-level class name and its dimension.
Index

enable-disable, 2
ic, 2
ic-single-use, 3
ic_autopeek, 4
ic_autopeek_header, 5
ic_disable (enable-disable), 2
ic_enable (enable-disable), 2
ic.peek(), 5

utils::str(), 4, 5

with_ic_disable (ic-single-use), 3
with_ic_enable (ic-single-use), 3