

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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URL <https://www.lewinfox.com/icecream/>,
<https://github.com/lewinfox/icecream>

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

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

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enable-disable	<i>Enable or disable ic()</i>
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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	<i>User-friendly debug statements</i>
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Description

User-friendly debug statements

Usage

`ic(x)`

Arguments

x An expression, or nothing

Value

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

Examples

```
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

```
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

```
ic_enable()

fun <- function(x) {
  ic(x * 100)
}

fun(2)
```

```

with_ic_disable(fun(2))

fun(4)

ic_disable()

fun(1)

with_ic_enable(fun(1))

```

ic_peek

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

```

ic_peek(object, ...)

## S3 method for class 'list'
ic_peek(object, max_summary_length = cli::console_width(), ...)

## S3 method for class 'data.frame'
ic_peek(object, max_summary_length = cli::console_width(), ...)

```

Arguments

<code>object</code>	The object to be summarized.
<code>...</code>	Other arguments passed to methods.
<code>max_summary_length</code>	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

See Also

[utils::str\(\) ic_peek\(\)](#)

ic_peek_header *Get a header of the object peeked at*

Description

Get a header of the object peeked at

Usage

```
ic_peek_header(object, ...)
```

Arguments

<code>object</code>	The object peeked at.
<code>...</code>	Other arguments passed to methods.

Details

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

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