

Package: cliExtras (via r-universe)

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Type Package

Title A Collection of Helper Functions for the cli package

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Description Extends the cli package with user response prompts and stopifnot equivalents.

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URL <https://github.com/elipousson/cliExtras>,
<https://elipousson.github.io/cliExtras/>

BugReports <https://github.com/elipousson/cliExtras/issues>

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cli_abort_ifnot	<i>Signal an error, warning, or message with a cli formatted message if any expressions in ... are not all TRUE or are all TRUE</i>
-----------------	---

Description

Signal an error, warning, or message with a cli formatted message if any expressions in ... are not all TRUE or are all TRUE

Usage

```
cli_abort_ifnot(
    ...,
    message = NULL,
    call = .envir,
    .envir = parent.frame(),
    .frame = .envir,
    condition = NULL
)
```

```
cli_abort_if(
    ...,
    message = NULL,
    call = .envir,
    .envir = parent.frame(),
    .frame = .envir,
    condition = NULL
)
```

```
cli_warn_ifnot(..., message = NULL, .envir = parent.frame(), condition = NULL)
```

```
cli_warn_if(..., message = NULL, .envir = parent.frame(), condition = NULL)
```

```
cli_inform_ifnot(
```

```

    ...,
    message = NULL,
    .envir = parent.frame(),
    condition = NULL
  )

cli_inform_if(..., message = NULL, .envir = parent.frame(), condition = NULL)

```

Arguments

...	Any number of R expressions which should each evaluate to a logical vector. If ... is named, the names will be passed to as the message parameter. If message is provided, any names for the logical expressions are ignored. If only some items from ... are named, the missing names are created with <code>rlang::exprs_auto_name()</code> . If a single list is provided, the list is assumed to be a named list of logical values or expressions that evaluate to logical values.
message	It is formatted via a call to <code>cli_bullets()</code> .
call	The execution environment of a currently running function, e.g. <code>call = caller_env()</code> . The corresponding function call is retrieved and mentioned in error messages as the source of the error. You only need to supply <code>call</code> when throwing a condition from a helper function which wouldn't be relevant to mention in the message. Can also be <code>NULL</code> or a defused function call to respectively not display any call or hard-code a code to display. For more information about error calls, see Including function calls in error messages .
.envir	Environment to evaluate the glue expressions in.
.frame	The throwing context. Used as default for <code>.trace_bottom</code> , and to determine the internal package to mention in internal errors when <code>.internal</code> is <code>TRUE</code> .
condition	Logical. For <code>ifnot</code> style functions, if <code>FALSE</code> , signal an error, warning, or message. For <code>if</code> style functions, signal an error, warning, or message if <code>TRUE</code> . Defaults to <code>NULL</code> . Ignored if multiple parameters are provided to ...

cli_alert_ifnot	<i>CLI conditional alerts</i>
-----------------	-------------------------------

Description

Alerts are typically short status messages. Note: These functions use `wrap = TRUE` by default. Alert messages can be muffled by `set_cli_quiet()` while `cli::cli_inform()` messages are not.

Usage

```
cli_alert_ifnot(
  text = NULL,
  condition = NULL,
  .fn = cli::cli_alert,
  id = NULL,
  class = NULL,
  wrap = TRUE,
  .envir = parent.frame(),
  call = parent.frame()
)

cli_danger_ifnot(text = NULL, condition = NULL, ..., .envir = parent.frame())

cli_info_ifnot(text = NULL, condition = NULL, ..., .envir = parent.frame())

cli_success_ifnot(text = NULL, condition = NULL, ..., .envir = parent.frame())

cli_warning_ifnot(text = NULL, condition = NULL, ..., .envir = parent.frame())

cli_alert_if(
  text = NULL,
  condition = NULL,
  .fn = cli::cli_alert,
  id = NULL,
  class = NULL,
  wrap = TRUE,
  .envir = parent.frame(),
  call = parent.frame()
)

cli_danger_if(text = NULL, condition = NULL, ..., .envir = parent.frame())

cli_info_if(text = NULL, condition = NULL, ..., .envir = parent.frame())

cli_success_if(text = NULL, condition = NULL, ..., .envir = parent.frame())

cli_warning_if(text = NULL, condition = NULL, ..., .envir = parent.frame())
```

Arguments

<code>text</code>	Text of the alert.
<code>condition</code>	If TRUE, display alert for "if" functions. If FALSE, display alert for "ifnot" functions.
<code>.fn</code>	cli function to use for alert. Defaults to <code>cli::cli_alert</code> . Supported options also include "danger", "info", "success", and "warning".
<code>id</code>	Id of the alert element. Can be used in themes.

class	Class of the alert element. Can be used in themes.
wrap	Whether to auto-wrap the text of the alert.
.envir	Environment to evaluate the glue expressions in.
call	Caller environment. Used to improve error messages for argument checks.
...	Additional parameters passed to cli_alert_if or cli_alert_ifnot by functions like cli_info_ifnot().

See Also

[cli::cli_alert\(\)](#)

Examples

```
## Not run:
if (interactive()) {
  cli_alert_if(text = "Example text", condition = TRUE)

  cli_alert_ifnot(text = "Example text", condition = FALSE)

  cli_alert_success_if(text = "Success!", condition = TRUE)

  cli_alert_danger_ifnot(text = "Danger!", condition = FALSE)
}

## End(Not run)
```

cli_ask

Display a Message then Read a Line from the Terminal

Description

Display a Message then Read a Line from the Terminal

Usage

```
cli_ask(prompt = "?", ..., .envir = rlang::caller_env(), call = .envir)
```

Arguments

prompt	Characters to show as user prompt in console following displayed message. A non-breaking space is always placed after the prompt before passing to readline() . Defaults to "?".
...	Arguments passed on to cli::cli_bullets
text	Character vector of items. See details below on how names are interpreted.
id	Optional id of the div.bullets element, can be used in themes.

	class	Optional additional class(es) for the <code>div.bullets</code> element.
	<code>.envir</code>	Environment to evaluate the glue expressions in.
	<code>call</code>	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the <code>call</code> argument of <code>abort()</code> for more information.

See Also

[cli_yesno\(\)](#)

<code>cli_bulletize</code>	<i>List of items using bulletize helper</i>
----------------------------	---

Description

List of items using bulletize helper

Usage

```
cli_bulletize(
  items,
  bullet = "*",
  n_show = Inf,
  n_fudge = 2,
  style = NULL,
  sep = NULL,
  before = NULL,
  after = NULL,
  id = NULL,
  class = NULL,
  .envir = parent.frame()
)
```

Arguments

<code>items</code>	A named vector or list to use in creating a bulleted list with <code>cli::cli_bullets()</code> .
<code>bullet</code>	Character to use for bullet. Defaults to "".
<code>n_show</code>	The maximum number of items to include in the bullet list. Defaults to 5.
<code>n_fudge</code>	The minimum number of items to include in summary of additional bullet items. If the summary would only include a number of items equal or less than <code>n_fudge</code> , they are included in the bullet list and the summary is not displayed. Defaults to 2.
<code>style</code>	A cli style name, e.g. <code>code</code> , <code>val</code> , <code>file</code> , <code>url</code>
<code>sep</code> , <code>before</code> , <code>after</code>	Additional characters or character vectors applied using <code>paste0(before, sep, out, after)</code> . Defaults to <code>NULL</code> .

id	Optional id of the <code>div.bullets</code> element, can be used in themes.
class	Optional additional class(es) for the <code>div.bullets</code> element.
.envir	Environment to evaluate the glue expressions in.

`cli_helpers`*Assorted helper functions to format text and vectors for cli messages*

Description

These functions are convenient alternatives to the internal cli functions but may be removed as my understanding of the cli package improves.

- `bracketize()` pastes open and close brackets around a vector.
- `stylize()` appends a style prefix, e.g. "`{.val value}`" to a vector.
- `bulletize()` turns a vector into a neatly abbreviated bullet list.

`bulletize()` is adapted from the gargle package (see `utils-ui.R`). This function is available under a MIT license and is the work of the gargle authors.

Usage

```
bracketize(..., .open = "{", .close = "}", collapse = NULL)
```

```
stylize(  
  x,  
  style = NULL,  
  bracket = FALSE,  
  .open = "{",  
  .close = "}",  
  collapse = NULL  
)
```

```
bulletize(  
  x,  
  bullet = "*",  
  sep = NULL,  
  before = NULL,  
  after = NULL,  
  style = NULL,  
  n_show = 5,  
  n_fudge = 2,  
  bracket = FALSE  
)
```

Arguments

...	one or more R objects, to be converted to character vectors.
.open, .close	Open and close bracket characters.
collapse	an optional character string to separate the results. Not <code>NA_character_</code> . When collapse is a string, the result is always a string (character of length 1).
x	A vector.
style	A cli style name, e.g. code, val, file, url
bracket	If TRUE, pass x to bracketize.
bullet	Character to use for bullet. Defaults to "".
sep, before, after	Additional characters or character vectors applied using <code>paste0(before, sep, out, after)</code> .
n_show	The maximum number of items to include in the bullet list. Defaults to 5.
n_fudge	The minimum number of items to include in summary of additional bullet items. If the summary would only include a number of items equal or less than n_fudge, they are included in the bullet list and the summary is not displayed. Defaults to 2.

Examples

```
bracketize("value")

stylize("styled value", "val")

stylize("styled variable", "val", bracket = TRUE)

bulletize(c("val 1", "val 2", "val 3"))

bulletize(rep("val", 20), n_show = 3)
```

cli_if

Execute a cli function if a predicate function returns TRUE

Description

Execute a function if a predicate function returns TRUE. Intended for use with cli functions.

Usage

```
cli_if(
  x = NULL,
  ...,
  .predicate = rlang::is_true,
  .fn = NULL,
```



```

    .default = cli::cli_alert,
    .envir = rlang::caller_env(),
    call = rlang::caller_env()
  )

cli_ifnot(
  x = NULL,
  ...,
  .predicate = rlang::is_false,
  .fn = NULL,
  .default = cli::cli_alert,
  .envir = rlang::caller_env(),
  call = rlang::caller_env()
)

```

Arguments

x	Parameter to be passed to .predicate function, Default: NULL
...	Additional parameters passed to .fn.
.predicate	Single parameter predicate function, Defaults to <code>rlang::is_true</code> for <code>cli_if()</code> or <code>rlang::is_false</code> for <code>cli_ifnot()</code> . If .predicate returns TRUE, execute .fn. Aborts if .predicate does not return a boolean value.
.fn	Function to call with ... parameters if x, Default: NULL
.default	Default function to execute when .predicate function returns TRUE, Default: <code>cli::cli_alert</code>
call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the call argument of <code>abort()</code> for more information.

Value

The output from the .fn function or .default if .fn is NULL

Examples

```

cli_if(FALSE, "No alert.")

cli_if(TRUE, "Alert on TRUE!")

cli_ifnot(FALSE, "Alert on FALSE!")

```

cli_list_files	<i>Display a list of files as a list of items</i>
----------------	---

Description

Display a list of files as a list of items

Usage

```
cli_list_files(
  path = NULL,
  files = NULL,
  pattern = NULL,
  text = NULL,
  bullet = "*",
  n_show = 10,
  show_full = FALSE,
  include_dirs = TRUE,
  return_list = FALSE,
  .envir = current_env(),
  ...
)
```

Arguments

path	a character vector of full path names; the default corresponds to the working directory, <code>getwd()</code> . Tilde expansion (see <code>path.expand</code>) is performed. Missing values will be ignored. Elements with a marked encoding will be converted to the native encoding (and if that fails, considered non-existent).
files	List to file names to display. Ignored if path is provided. If path is a vector of existing files, path is used as files. If files share a single directory, path is set to that directory, otherwise path is set to NULL.
pattern	an optional regular expression . Only file names which match the regular expression will be returned.
text	Passed to <code>cli::cli_alert_info()</code> . If NULL (default), text appears reporting the number of files/folders found at the path (if path provided).
bullet	Character defining style to use list of file names.
n_show	Number of file names to show in list. The remaining number of files <code>n_show</code> are noted at the end of the list but the file names are not displayed. Defaults to 10.
show_full	If TRUE, always show the full file path available. If FALSE, show just the base name. Set to FALSE automatically if path is a vector of file names is a single directory.
include_dirs	If TRUE, include directories in listed files. Defaults to FALSE. Passed to the <code>include.dirs</code> parameter of <code>base::list.files()</code> if path is a directory.
return_list	If TRUE, return the list of files after displaying the cli message. Defaults to FALSE.

`.envir` Passed to `cli::cli_inform()`. Defaults to `rlang::current_env()` rather than `parent.frame()` to support evaluation of default message that includes the number of files found at the path.

`...` Arguments passed on to `base::list.files`

`all.files` a logical value. If FALSE, only the names of visible files are returned (following Unix-style visibility, that is files whose name does not start with a dot). If TRUE, all file names will be returned.

`full.names` a logical value. If TRUE, the directory path is prepended to the file names to give a relative file path. If FALSE, the file names (rather than paths) are returned.

`recursive` logical. Should the listing recurse into directories?

`ignore.case` logical. Should pattern-matching be case-insensitive?

`include.dirs` logical. Should subdirectory names be included in recursive listings? (They always are in non-recursive ones).

`no..` logical. Should both `"."` and `".."` be excluded also from non-recursive listings?

See Also

`cli::cli_bullets()`

Examples

```
cli_list_files(system.file("R", package = "cliExtras"), n_show = 5)
```

cli_menu

Display a Message then Read a Line from the Terminal

Description

Display a Message then Read a Line from the Terminal

Usage

```
cli_menu(
  choices,
  title = NULL,
  message = "Enter your selection or press {.kbd 0} to exit.",
  prompt = "Selection:",
  exit = 0,
  ind = FALSE,
  id = NULL,
  call = .envir,
  .envir = parent.frame()
)
```

Arguments

choices	Required vector or list of choices.
title	Title for menu. Character vector passed to <code>cli::cli_h2()</code> if title is length 1 or to <code>cli::cli_bullets()</code> if length is greater than 1.
message	Additional message to display after choices and before prompt.
prompt	Characters to show as user prompt in console following displayed menu options. Defaults to "Selection:" (matching <code>utils::menu()</code>)
exit	Character to use to exit menu.
ind	If TRUE, return index position, if FALSE (default), return item from choices.
id	Optional id of the <code>div.bullets</code> element, can be used in themes.
call	The execution environment of a currently running function, e.g. <code>caller_env()</code> . The function will be mentioned in error messages as the source of the error. See the <code>call</code> argument of <code>abort()</code> for more information.
.envir	Environment to evaluate the glue expressions in.

Examples

```
## Not run:
if (interactive()) {
  cli_menu(list("A", "B", "C"), title = "Pick a letter?")

  cli_menu(c("A", "B", "C"), labels = "Alpha")

  cli_menu(list(list(1, 2, 3), "A", "B", "C"), title = "Pick from a list")
}

## End(Not run)
```

cli_paths

Display a list of file paths

Description**[Superseded]****Usage**

```
cli_paths(path, msg)
```

Arguments

path	One or more file paths.
msg	Passed to message for <code>cli_inform()</code>

Details

Use `cli_list_files()` instead.

See Also

`cli::cli_bullets()`

cli_progress_pipe	<i>Simplified cli progress message for combining with a pipe</i>
-------------------	--

Description

A convenience function for creating progress messages that use piped data as an input.

Usage

```
cli_progress_pipe(
  data,
  ...,
  current = TRUE,
  clear = FALSE,
  .auto_close = TRUE,
  .envir = current_env(),
  time = NULL
)
```

Arguments

<code>data</code>	Input data. Reference w/ "data" if <code>.envir</code> is <code>current_env()</code> .
<code>...</code>	Arguments passed on to <code>cli::cli_progress_bar</code>
<code>name</code>	This is typically used as a label, and should be short, at most 20 characters.
<code>status</code>	New status string of the progress bar, if not NULL.
<code>type</code>	Type of the progress bar. It is used to select a default display if <code>format</code> is not specified. Currently supported types: <ul style="list-style-type: none"> • <code>iterator</code>: e.g. a for loop or a mapping function, • <code>tasks</code>: a (typically small) number of tasks, • <code>download</code>: download of one file, • <code>custom</code>: custom type, <code>format</code> must not be NULL for this type.
<code>total</code>	Total number of progress units, or NA if it is unknown. <code>cli_progress_update()</code> can update the total number of units. This is handy if you don't know the size of a download at the beginning, and also in some other cases. If <code>format</code> is set to NULL, <code>format</code> (plus <code>format_done</code> and <code>format_failed</code>) will be updated when you change <code>total</code> from NA to a number. I.e. default format strings will be updated, custom ones won't be.

format	Format string. It has to be specified for custom progress bars, otherwise it is optional, and a default display is selected based on the progress bar type and whether the number of total units is known. Format strings may contain glue substitution, the support pluralization and cli styling. See progress-variables for special variables that you can use in the custom format.
format_done	Format string for successful termination. By default the same as format.
format_failed	Format string for unsuccessful termination. By default the same as format.
auto_terminate	Whether to terminate the progress bar if the number of current units reaches the number of total units.
extra	Extra data to add to the progress bar. This can be used in custom format strings for example. It should be a named list. <code>cli_progress_update()</code> can update the extra data. Often you can get away with referring to local variables in the format string, and then you don't need to use this argument. Explicitly including these constants or variables in extra can result in cleaner code. In the rare cases when you need to refer to the same progress bar from multiple functions, and you can them to extra.
current	Passed to <code>cli_progress_bar()</code> .
clear	Whether to remove the progress bar from the screen after it has terminated. Defaults to FALSE (<code>cli::cli_progress_bar()</code> uses TRUE).
.auto_close	Passed to <code>cli_progress_bar()</code> .
.envir	The environment to use for auto-termination and for glue substitution. It is also used to find and set the current progress bar. Defaults to <code>current_env()</code> (<code>cli::cli_progress_bar()</code> uses <code>parent.frame()</code>)
time	Passed to <code>Sys.sleep()</code> for optional pause after displaying progress message. Defaults to NULL.

Examples

```
df <- data.frame("letters" = LETTERS, "numbers" = c(1:26))

df |>
  cli_progress_pipe("Data has {nrow(data)} rows and {ncol(data)} columns.") |>
  head(2)
```

cli_quiet	<i>Use rlang to set cli.default_handler to suppressMessages as a local or permanent option</i>
-----------	--

Description

`cli_quiet()` is a helper to enable a quiet option in other functions.

Usage

```
cli_quiet(quiet = FALSE, push = FALSE, .frame = rlang::caller_env())
```

Arguments

quiet	If FALSE, leave cli.default_handler option unchanged. If TRUE, set cli.default_handler to suppressMessages temporarily with <code>rlang::local_options()</code> or permanently with <code>rlang::push_options()</code> .
push	If TRUE, set cli.default_handler option with <code>rlang::push_options()</code> .
.frame	The environment of a stack frame which defines the scope of the temporary options. When the frame returns, the options are set back to their original values.

Examples

```
test_fn <- function(quiet = FALSE) {
  cli_quiet(quiet = quiet)
  cli::cli_alert_info(
    "{.arg quiet} is {.val {quiet}}")
}

options("cli.default_handler" = NULL)

test_fn()

test_fn(quiet = TRUE)
```

cli_ul_items

Format a list of items as an unordered list with cli_ul()

Description

Format a list of items as an unordered list with cli_ul()

Usage

```
cli_ul_items(items, style = c("code", "val"), sep = ": ", bracket = FALSE)
```

Arguments

items	Character vector of items, or NULL.
style	Length 2 character vector indicating cli style to use for names of items and style to use for items.
sep	Length 1 character vector with separator between item names and names.
bracket	If TRUE, pass x to bracketize.

cli_ynsno

*Yes No with Variable Responses using cli***Description**

Adapted from `ynsno::ynsno()` and `usethis::ui_ynsno()` to work with `cli_inform()`. This function does not respect the `cliExtras.quiet` option and aborts if the session is not interactive.

Usage

```
cli_ynsno(
  message,
  yes = c("Yes", "Definitely", "For sure", "Yup", "Yeah", "I agree", "Absolutely"),
  no = c("No way", "Not now", "Negative", "No", "Nope", "Absolutely not"),
  n_yes = 2,
  n_no = 1,
  call = .envir,
  .envir = rlang::caller_env()
)

check_ynsno(
  prompt = NULL,
  yes = c("", "Y", "Yes", "Yup", "Yep", "Yeah"),
  message = "Aborted. A yes is required.",
  .envir = rlang::caller_env(),
  call = .envir
)
```

Arguments

<code>message</code>	Passed to <code>cli_inform()</code>
<code>yes, no</code>	Character strings with yes and no options.
<code>n_yes, n_no</code>	Number of yes and no options to provide in user prompt.
<code>call</code>	The execution environment of a currently running function, e.g. <code>call = caller_env()</code> . The corresponding function call is retrieved and mentioned in error messages as the source of the error. You only need to supply <code>call</code> when throwing a condition from a helper function which wouldn't be relevant to mention in the message. Can also be <code>NULL</code> or a defused function call to respectively not display any call or hard-code a code to display. For more information about error calls, see Including function calls in error messages .
<code>.envir</code>	Environment to evaluate the glue expressions in.
<code>prompt</code>	For <code>check_ynsno()</code> , the prompt is always preceded by "? " and followed by "(Y/n)" and padded with non-breaking spaces on both sides.

Details

The yesno and usethis packages are both available under an MIT license ([yesno LICENSE](#) and [usethis LICENSE](#)) and are the work of the yesno and usethis authors.

Value

TRUE if yes response and FALSE if no response.

quiet_cli_inform	<i>Quiet version of cli_inform()</i>
------------------	--

Description

The implementation of the cliExtras.quiet option is based on the implementation of a similar setting in googlesheets4, googledrive, and gargle. If the cliExtras.quiet option is set to TRUE, [quiet_cli_inform\(\)](#) does not trigger a message. It is used by [cli_inform_ifnot\(\)](#) and [cli_inform_if\(\)](#) but not by most other functions in cliExtras.

Usage

```
quiet_cli_inform(..., .envir = parent.frame())
```

Arguments

...	Additional parameters passed to cli_inform()
.envir	Environment to evaluate the glue expressions in.

register_cli_format	<i>Register a custom cli format method with registerS3method</i>
---------------------	--

Description

Register a custom cli format method with [registerS3method](#)

Usage

```
register_cli_format(class = NULL, method = NULL, envir = parent.frame())
```

Arguments

class, method	Object class and format function passed to registerS3method() .
envir	Environment where the S3 method is registered. Defaults to parent.frame() .

set_cli_quiet	<i>Set the cli.default_handler and cliExtras.quiet options</i>
---------------	--

Description**[Deprecated]****Usage**

```
set_cli_quiet(quiet = FALSE, msg = !quiet)
```

Arguments

quiet	If TRUE set the cli.default_handler option to suppressMessages and cliExtras.quiet option to TRUE. Defaults to FALSE.
msg	If TRUE, set_cli_quiet() displays a message confirming the option changes. If FALSE, the function does not display a message. Defaults to !quiet

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