# Package: knitrProgressBar (via r-universe)

September 21, 2024

Type Package

Title Provides Progress Bars in 'knitr'

Version 1.1.1

**Description** Provides a progress bar similar to 'dplyr' that can write progress out to a variety of locations, including stdout(), stderr(), or from file(). Useful when using 'knitr' or 'rmarkdown', and you still want to see progress of calculations in the terminal.

BugReports https://github.com/rmflight/knitrProgressBar/issues

URL https://rmflight.github.io/knitrProgressBar/ License MIT + file LICENSE Encoding UTF-8 Imports R6, R.oo Suggests knitr, rmarkdown, purrr, testthat, covr, mockr, withr, parallel VignetteBuilder knitr RoxygenNote 7.3.2 Roxygen list(markdown = TRUE) Repository https://rmflight.r-universe.dev RemoteUrl https://github.com/rmflight/knitrprogressbar RemoteRef HEAD RemoteSha 34f0c2a830cd4c6b110c73778401863e90ee9d51

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make\_kpb\_output\_decisions

**Progress Output Location** 

#### Description

Provides functionality to decide how the progress should be written, if at all.

## Usage

```
make_kpb_output_decisions()
```

## Details

This function makes decisions about how the progress bar should be displayed based on whether:

- 1. The code is being run in an interactive session or not
- 2. The code is part of a knitr evaluation using knit() or rmarkdown::render()
- 3. Options set by the user. These options include:
  - (a) **kpb.suppress\_noninteractive**: a logical value. Whether to suppress output when being run non-interactively.
  - (b) **kpb.use\_logfile**: logical, should a log-file be used for output?
  - (c) **kpb.log\_file**: character string defining the log-file to use. **kpb.use\_logfile** must be TRUE.
  - (d) **kpb.log\_pattern**: character string providing a pattern to use, will be combined with the chunk label to create a log-file for each knitr chunk. **kpb.use\_logfile** must be TRUE.

Based on these, it will either return a newly opened connection, either via stderr(), stdout(), or a file connection via file("logfile.log", open = "w"). Note that for files this will overwrite a previously existing file, and the contents will be lost.

# Value

a write-able connection or NULL

# Examples

```
## Not run:
# suppress output when not interactive
options(kpb.suppress_noninteractive = TRUE)
# use a log-file, will default to kpb_output.txt
options(kpb.use_logfile = TRUE)
# use a specific log-file
options(kpb.use_logfile = TRUE)
options(kpb.log_file = "progress.txt")
```

```
options(kpb.use_logfile = TRUE)
options(kpb.log_pattern = "pb_out_")
# for a document with a chunk labeled: "longcalc", this will generate "pb_out_longcalc.log"
## End(Not run)
```

progress\_estimated Progress bar with estimated time.

# Description

This provides a reference class representing a text progress bar that displays the estimated time remaining. When finished, it displays the total duration. The automatic progress bar can be disabled by setting progress\_location = NULL.

# Usage

```
progress_estimated(
    n,
    min_time = 0,
    progress_location = make_kpb_output_decisions()
)
```

# Arguments

n	Total number of items	
<pre>min_time</pre>	Progress bar will wait until at least min_time seconds have elapsed before displaying any results.	
progress_location		
	where to write the progress to. Default is to make decisions based on location type using make_kpb_output_decisions().	

# Value

A ref class with methods tick(), print(), pause(), and stop().

#### See Also

make\_kpb\_output\_decisions()

# Examples

```
p <- progress_estimated(3)
p$tick()
p$tick()
p$tick()</pre>
```

```
p <- progress_estimated(3)</pre>
for (i in 1:3) p$pause(0.1)$tick()$print()
p <- progress_estimated(3)</pre>
p$tick()$print()$
pause(1)$stop()
# If min_time is set, progress bar not shown until that many
# seconds have elapsed
p <- progress_estimated(3, min_time = 3)</pre>
for (i in 1:3) p$pause(0.1)$tick()$print()
## Not run:
p <- progress_estimated(10, min_time = 3)</pre>
for (i in 1:10) p$pause(0.5)$tick()$print()
# output to stderr
p <- progress_estimated(10, progress_location = stderr())</pre>
# output to a file
p <- progress_estimated(10, progress_location = tempfile(fileext = ".log"))</pre>
## End(Not run)
```

set\_progress\_mp multi process progress indicator

# Description

Sets up a progress object that writes to a shared file to indicate the total progress. Progress can be monitored by watch\_progress\_mp.

### Usage

```
set_progress_mp(write_location = NULL)
```

# Arguments

write\_location where to save progress to

# Value

ProgressMP

### See Also

watch\_progress\_mp

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update\_progress updating progress bars

# Description

Takes care of updating a progress bar and stopping when appropriate

# Usage

```
update_progress(.pb = NULL)
```

# Arguments . pb

the progress bar object

# Value

the progress bar

watch\_progress\_mp watch progress from multi process

# Description

sets up a "watcher" function that will report on the progress of a multi-process process that is being indicated by set\_progress\_mp.

# Usage

```
watch_progress_mp(
    n,
    min_time = 0,
    watch_location = NULL,
    progress_location = make_kpb_output_decisions()
)
```

# Arguments

n number of times process is running min\_time how long to wait watch\_location where is the progress being written to progress\_location where to write the progress output

# Value

ProgressMPWatcher

# See Also

set\_progress\_mp

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