

Package ‘prettyunits’

October 14, 2022

Title Pretty, Human Readable Formatting of Quantities

Version 1.1.1

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Description Pretty, human readable formatting of quantities.
Time intervals: '1337000' -> '15d 11h 23m 20s'.
Vague time intervals: '2674000' -> 'about a month ago'.
Bytes: '1337' -> '1.34 kB'.

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LazyData true

URL <https://github.com/gaborcsardi/prettyunits>

BugReports <https://github.com/gaborcsardi/prettyunits/issues>

Suggests codetools, covr, testthat

RoxygenNote 7.0.2

Encoding UTF-8

NeedsCompilation no

Repository CRAN

Date/Publication 2020-01-24 06:50:07 UTC

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prettyunits	<i>Prettier formatting of quantities</i>
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Description

Prettier formatting of quantities

pretty_bytes	<i>Bytes in a human readable string</i>
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Description

Use `pretty_bytes()` to format bytes. `compute_bytes()` is the underlying engine that may be useful for custom formatting.

Usage

```
pretty_bytes(bytes, style = c("default", "nopad", "6"))
```

```
compute_bytes(bytes, smallest_unit = "B")
```

Arguments

`bytes` Numeric vector, number of bytes.

`style` Formatting style:

- "default" is the original `pretty_bytes` formatting, and it always pads the output, so that all vector elements are of the same width,
- "nopad" is similar, but does not pad the output,
- "6" always uses 6 characters. The "6" style is useful if it is important that the output always has the same width (number of characters), e.g. in progress bars. See some examples below.

`smallest_unit` A character scalar, the smallest unit to use.

Value

Character vector, the formatted sizes. For `compute_bytes`, a data frame with columns `amount`, `unit`, `negative`.

Examples

```
bytes <- c(1337, 133337, 13333337, 1333333337, 133333333337)
pretty_bytes(bytes)
pretty_bytes(bytes, style = "nopad")
pretty_bytes(bytes, style = "6")
```

pretty_dt	<i>Pretty formatting of time intervals (difftime objects)</i>
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Description

Pretty formatting of time intervals (difftime objects)

Usage

```
pretty_dt(dt, compact = FALSE)
```

Arguments

dt	A difftime object, a vector of time differences.
compact	If true, then only the first non-zero unit is used. See examples below.

Value

Character vector of formatted time intervals.

See Also

Other time: [pretty_ms\(\)](#), [pretty_sec\(\)](#)

Examples

```
pretty_dt(as.difftime(1000, units = "secs"))
pretty_dt(as.difftime(0, units = "secs"))
```

pretty_ms	<i>Pretty formatting of milliseconds</i>
-----------	--

Description

Pretty formatting of milliseconds

Usage

```
pretty_ms(ms, compact = FALSE)
```

Arguments

ms	Numeric vector of milliseconds
compact	If true, then only the first non-zero unit is used. See examples below.

Value

Character vector of formatted time intervals.

See Also

Other time: [pretty_dt\(\)](#), [pretty_sec\(\)](#)

Examples

```
pretty_ms(c(1337, 13370, 133700, 1337000, 1337000000))
```

```
pretty_ms(c(1337, 13370, 133700, 1337000, 1337000000),  
compact = TRUE)
```

pretty_sec

Pretty formatting of seconds

Description

Pretty formatting of seconds

Usage

```
pretty_sec(sec, compact = FALSE)
```

Arguments

`sec` Numeric vector of seconds.
`compact` If true, then only the first non-zero unit is used. See examples below.

Value

Character vector of formatted time intervals.

See Also

Other time: [pretty_dt\(\)](#), [pretty_ms\(\)](#)

Examples

```
pretty_sec(c(1337, 13370, 133700, 1337000, 13370000))
```

```
pretty_sec(c(1337, 13370, 133700, 1337000, 13370000),  
compact = TRUE)
```

time_ago	<i>Human readable format of the time interval since a time point</i>
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Description

It calls `vague_dt` to do the actual formatting.

Usage

```
time_ago(date, format = c("default", "short", "terse"))
```

Arguments

date	Date(s), as <code>POSIXct</code> will be called on them.
format	Format, currently available formats are: 'default', 'short', 'terse'. See examples below.

Value

Character vector of the formatted time intervals.

Examples

```
now <- Sys.time()

time_ago(now)
time_ago(now - as.difftime(30, units = "secs"))
time_ago(now - as.difftime(14, units = "mins"))
time_ago(now - as.difftime(5, units = "hours"))
time_ago(now - as.difftime(25, units = "hours"))
time_ago(now - as.difftime(5, units = "days"))
time_ago(now - as.difftime(30, units = "days"))
time_ago(now - as.difftime(365, units = "days"))
time_ago(now - as.difftime(365 * 10, units = "days"))

## Short format
time_ago(format = "short", now)
time_ago(format = "short", now - as.difftime(30, units = "secs"))
time_ago(format = "short", now - as.difftime(14, units = "mins"))
time_ago(format = "short", now - as.difftime(5, units = "hours"))
time_ago(format = "short", now - as.difftime(25, units = "hours"))
time_ago(format = "short", now - as.difftime(5, units = "days"))
time_ago(format = "short", now - as.difftime(30, units = "days"))
time_ago(format = "short", now - as.difftime(365, units = "days"))
time_ago(format = "short", now - as.difftime(365 * 10, units = "days"))

## Even shorter, terse format, (almost always) exactly 3 characters wide
time_ago(format = "terse", now)
time_ago(format = "terse", now - as.difftime(30, units = "secs"))
```

```
time_ago(format = "terse", now - as.difftime(14, units = "mins"))
time_ago(format = "terse", now - as.difftime(5, units = "hours"))
time_ago(format = "terse", now - as.difftime(25, units = "hours"))
time_ago(format = "terse", now - as.difftime(5, units = "days"))
time_ago(format = "terse", now - as.difftime(30, units = "days"))
time_ago(format = "terse", now - as.difftime(365, units = "days"))
time_ago(format = "terse", now - as.difftime(365 * 10, units = "days"))
```

vague_dt

Human readable format of a time interval

Description

Human readable format of a time interval

Usage

```
vague_dt(dt, format = c("default", "short", "terse"))
```

Arguments

dt	A difftime object, the time interval(s).
format	Format, currently available formats are: 'default', 'short', 'terse'. See examples below.

Value

Character vector of the formatted time intervals.

Examples

```
vague_dt(as.difftime(30, units = "secs"))
vague_dt(as.difftime(14, units = "mins"))
vague_dt(as.difftime(5, units = "hours"))
vague_dt(as.difftime(25, units = "hours"))
vague_dt(as.difftime(5, units = "days"))
vague_dt(as.difftime(30, units = "days"))
vague_dt(as.difftime(365, units = "days"))
vague_dt(as.difftime(365 * 10, units = "days"))

## Short format
vague_dt(format = "short", as.difftime(30, units = "secs"))
vague_dt(format = "short", as.difftime(14, units = "mins"))
vague_dt(format = "short", as.difftime(5, units = "hours"))
vague_dt(format = "short", as.difftime(25, units = "hours"))
vague_dt(format = "short", as.difftime(5, units = "days"))
vague_dt(format = "short", as.difftime(30, units = "days"))
vague_dt(format = "short", as.difftime(365, units = "days"))
vague_dt(format = "short", as.difftime(365 * 10, units = "days"))
```

```
## Even shorter, terse format, (almost always) exactly 3 characters wide
vague_dt(format = "terse", as.difftime(30, units = "secs"))
vague_dt(format = "terse", as.difftime(14, units = "mins"))
vague_dt(format = "terse", as.difftime(5, units = "hours"))
vague_dt(format = "terse", as.difftime(25, units = "hours"))
vague_dt(format = "terse", as.difftime(5, units = "days"))
vague_dt(format = "terse", as.difftime(30, units = "days"))
vague_dt(format = "terse", as.difftime(365, units = "days"))
vague_dt(format = "terse", as.difftime(365 * 10, units = "days"))
```

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