Package 'birk'

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Type Package

Title MA Birk functions

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Author Matthew A Birk

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Description

This is a compilation of my functions that I found useful to make. It currently includes a standard error function that behaves identically to sd() and a unit of measurement conversion function.

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R topics documented:

`birk-package` *MA Birk functions*

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Details

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`conv_unit` *Convert Units of Measurement*

Description

This function converts common units of measurement for a variety of dimensions. See conv_unit_options for all options.

Usage

```
conv_unit(x, from, to)
```

Arguments

`x`	the measurement value in original units.
`from`	the unit in which the measurement was made
`to`	the unit to which the measurment is to be converted

Details

The conversion values have been defined based primarily from international weight and measurement authorities (e.g. General Conference on Weights and Measures, International Committee for Weights and Measures, etc.). While much effort was made to make conversions as accurate as possible, you should check the accuracy of conversions to ensure that conversions are precise enough for your applications.

Note

All non-metric units of mass are based on the avoirdupois system.

Author(s)

Matthew A. Birk

See Also

`conv_unit_options`

Examples

```
conv_unit(2.54, cm, inch) # Result = 1 inch
conv_unit(seq(1, 10), kg, short_ton) # A vector of measurement values can be converted
```

conv_unit_options *Unit of Measurement Conversion Options*

Description

This dataset shows what units of measurement can be converted with the function conv_unit.

Usage

```
conv_unit_options
```

Details

All non-metric units of mass are based on the avoirdupois system.

Source

The conversion values have been defined based primarily from international weight and measurement authorities (e.g. General Conference on Weights and Measures, International Committee for Weights and Measures, etc.). While much effort was made to make conversions as accurate as possible, you should check the accuracy of conversions to ensure that conversions are precise enough for your applications.

See Also

conv_unit

Examples

```
conv_unit_options
conv_unit_options[Pressure]
```

se *Standard Error*

Description

This function computes the standard error of the values in x. If na.rm is TRUE then missing values are removed before computation proceeds.

Usage

```
se(x, na.rm = FALSE)
```

Arguments

x	a numeric vector or an R object which is coercible to one by as.vector(x, "numeric").
na.rm	logical. Should missing values be removed?

Author(s)

Matthew A. Birk

See Also

sd,var

Examples

```
se(1:10)
```

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