

# Package ‘lucr’

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**Title** Currency Formatting and Conversion

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**Author** Oliver Keyes

**Maintainer** Oliver Keyes <ironholds@gmail.com>

**Description** Reformat currency-based data as numeric values (or numeric values as currency-based data) and convert between currencies.

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**LazyData** true

**URL** <https://github.com/ironholds/lucr>

**BugReports** <https://github.com/ironholds/lucr/issues>

**LinkingTo** Rcpp

**Imports** Rcpp, htr

**Suggests** testthat

**Encoding** UTF-8

**RoxygenNote** 5.0.1

**NeedsCompilation** yes

**Repository** CRAN

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conversion\_rates      *Get Current Conversion Rates*

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### Description

Get the current conversion rates between various different currencies.

### Usage

```
conversion_rates(currency = "USD", key, ...)
```

### Arguments

currency	The currency to use as a baseline. By default this is US Dollars; while it can be changed to other currencies, that does require an 'Enterprise' OER key, and will otherwise fail.
key	Your Open Exchange Rates API key. See their <a href="#">access plans</a> (particularly the 'forever free' plan linked at the bottom).
...	Further arguments to pass to httr's GET function.

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currency\_convert      *Convert between currencies using the Open Exchange Rates API*

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### Description

Uses the Open Exchange Rates API to convert a series of amounts between two currencies.

### Usage

```
currency_convert(x, from = "USD", to, key, ...)
```

### Arguments

x	a vector of amounts, formatted as integer or numeric values.
from	the currency x is currently in. US Dollars by default.
to	the currency you <i>want</i> x to be in.
key	your Open Exchange Rates API key. See their <a href="#">access plans</a> (particularly the 'forever free' plan linked at the bottom).
...	further arguments to pass to httr's GET function.

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from_currency	<i>Convert currency-formatted strings into numeric values</i>
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**Description**

takes a vector of strings formatted as amounts of money ("12,329.34") and reformats them as numeric values (12329.34).

**Usage**

```
from_currency(x, decimal_delim = ".")
```

**Arguments**

`x` a vector of strings, formatted as money amounts. See [to\\_currency](#).  
`decimal_delim` the character used to delimit the decimal amount. Set to "." by default.

**Examples**

```
from_currency("£1,249.34")  
# [1] 1249.34
```

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historic_currency	<i>Get Historic Currency Data</i>
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**Description**

Retrieves historical data about a currency's value and exchange rate, relative to another currency.

**Usage**

```
historic_currency(dates, currency = "USD", key, ...)
```

**Arguments**

`dates` a vector of dates to get data for. Strings or date objects.  
`currency` the currency to use as a baseline. By default this is US Dollars; while it can be changed to other currencies, that does require an 'Enterprise' OER key, and will otherwise fail.  
`key` Your Open Exchange Rates API key. See their [access plans](#) (particularly the 'forever free' plan linked at the bottom).  
`...` Further arguments to pass to httr's GET function.

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list_currencies	<i>Find Supported Currencies</i>
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### Description

Generates a list of the currencies supported by [currency\\_convert](#).

### Usage

```
list_currencies(key, as_df = FALSE, ...)
```

### Arguments

key	Your Open Exchange Rates API key. See their <a href="#">access plans</a> (particularly the 'forever free' plan linked at the bottom).
as_df	Whether to return the results as a data.frame. If not, it will be a named list. Set to FALSE by default.
...	Further arguments to pass to httr's GET function.

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lucr	<i>Currency Formatting and Conversion</i>
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### Description

Reformat currency-based data as numeric values (or numeric values as currency-based data) and convert between currencies.

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to_currency	<i>Format numeric or integer values as currency values</i>
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### Description

a formatter that lets you take numeric or integer values (12000) and convert them to strings that are currency-formatted (\$12,000). Full control is available over the currency symbol, the size of delimited groups, the sign used to delimit groups, and decimal placement.

### Usage

```
to_currency(x, currency_symbol = "€", symbol_first = TRUE,
  group_size = 3, group_delim = ",", decimal_size = 2,
  decimal_delim = ".")
```

**Arguments**

x	a numeric or integer vector containing values you want to currency-ify
currency_symbol	the symbol that identifies the currency. "£" by default.
symbol_first	whether the symbol goes at the beginning (TRUE) or end (FALSE) of the generated value. TRUE by default.
group_size	the size of delimited groups (2, 3, or 4 digits, say). Set to 3 by default.
group_delim	the delimiter for each group.
decimal_size	the number of digits after the decimal place. 2 by default but can be more (the Japanese Yen, for example, can go down to one <i>rin</i> , which is a thousandth of a Yen).
decimal_delim	the delimiter to use for sub-unit, decimal values. A period by default.

**Examples**

```
to_currency(120000.03)
#[1] "£120,000.03"
```

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