

Package ‘ifo’

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Title Client for the Ifo Institute Time Series

Version 0.3.0

Description Download ifo business survey data and more time series from ifo institute <<https://www.ifo.de/en/ifo-time-series>>.

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URL <https://m-muecke.github.io/ifo/>, <https://github.com/m-muecke/ifo>

BugReports <https://github.com/m-muecke/ifo/issues>

Depends R (>= 4.1.0)

Imports curl, data.table (>= 1.16.0), readxl, rvest (>= 1.0.0)

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ifo_business	<i>Return ifo business climate data</i>
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Description

Return ifo business climate data

Usage

```
ifo_business(
  type = c("germany", "sectors", "eastern", "saxony"),
  long_format = TRUE
)
```

Arguments

type	(character(1)) Defaults to "germany". One of: • "germany": returns the ifo business climate index for Germany. • "sectors": returns the ifo business climate index for different sectors. • "eastern": returns the ifo business climate index for eastern Germany. • "saxony": returns the ifo business climate index for Saxony.
long_format	(logical(1)) If TRUE return the data in long format. Only applies to type "germany" and "sectors". Default TRUE.

Details

With long_format = TRUE, type = "germany" and type = "sectors" return one observation per row in value. The other columns describe each observation:

- indicator: climate, situation, or expectation.
- series: index or balance.
- sector: the sector, returned only for type = "sectors".

For type = "sectors", sector = "industry" corresponds to "Industry and Trade" in the source. It is the only sector available as both an index and a balance; all other sectors are balances.

For type = "germany", uncertainty and economic_expansion repeat across the six indicator and series combinations for each month.

Value

A data.frame() containing the monthly ifo business climate time series.

Source

<https://www.ifo.de/en/ifo-time-series>

See Also

The [article](#) for a reproducible example.

Examples

```
business <- ifo_business("germany")
head(business)
```

ifo_climate	<i>Return ifo climate data</i>
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Description

Return ifo climate data

Usage

```
ifo_climate(type = c("import", "export", "world", "euro"))
```

Arguments

type	(character(1)) Defaults to "import". One of: • "import": returns the ifo import climate. • "export": returns the ifo export climate. • "world": returns the ifo world economic climate. • "euro": returns the ifo world economic climate for the euro zone.
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Details

type = "import" and type = "export" return seasonally adjusted indices. In the export data, special_trade instead gives the annual percentage change in special-trade exports. type = "world" and type = "euro" return balances. The source provides these two series only through the fourth quarter of 2019.

Value

A data.frame() containing the ifo climate time series. Monthly for "import" and "export", quarterly for "world" and "euro".

Source

<https://www.ifo.de/en/ifo-time-series>

References

Grimme C, Lehmann R, Nöller M (2018). “Das ifo Importklima – ein erster Frühindikator für die Prognose der deutschen Importe.” *ifo Schnelldienst*, **71**(12), 27–32.

Grimme, Christian, Lehmann, Robert, Nöller, Marvin (2021). “Forecasting imports with information from abroad.” *Economic Modelling*, **98**, 109–117.

Examples

```
climate <- ifo_climate("import")
head(climate)
```

ifo_expectation	<i>Return ifo expectation data</i>
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Description

Return ifo expectation data

Usage

```
ifo_expectation(type = c("export", "employment"))
```

Arguments

type	(character(1)) Defaults to "export". One of:
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- "export": returns the ifo export expectations for manufacturing.
- "employment": returns the ifo employment barometer for Germany.

Details

For type = "employment", expectation contains the employment barometer, an index with 2015 = 100. manufacturing, construction, trade, and service_sector contain balances.

Value

A data.frame() containing the monthly ifo expectation time series.

Source

<https://www.ifo.de/en/ifo-time-series>

Examples

```
expectation <- ifo_expectation("export")
head(expectation)
```

ifo_vintage	<i>Return ifo business climate vintage data</i>
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Description

Return ifo business climate vintage data

Usage

```
ifo_vintage(
  type = c("germany", "industry", "manufacturing", "services", "trade", "wholesale",
    "retail", "construction")
)
```

Arguments

type (character(1))
 Defaults to "germany". One of:

- "germany": returns the vintages of the ifo business climate index for Germany.
- "industry", "manufacturing", "services", "trade", "wholesale", "retail", "construction": returns the vintages of the ifo business climate for the sector.

Details

A vintage is the time series as published in a given month. Each vintage runs from the start of the series to its own release month, so later vintages contain more months and may revise earlier values, for example through seasonal adjustment. The output contains one observation per row in value. The other columns describe each observation:

- yearmonth: the observed month.
- vintage: the first day of the month in which the series was published.
- indicator: climate, situation, or expectation.
- series: index or balance.

type = "germany" and type = "industry" return an index with 2015 = 100. All other sectors return balances. type = "industry" corresponds to "Industry and Trade" in the source. ifo updates the vintage workbooks less often than the monthly releases, so the latest vintage can lag the current [ifo_business\(\)](#) release by several months.

Value

A `data.frame()` containing the monthly ifo business climate vintages in long format.

Source

<https://www.ifo.de/en/ifo-time-series>

Examples

```
vintage <- ifo_vintage("germany")  
head(vintage)
```

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