Package: tsrsa (via r-universe)

August 23, 2024

Type Package

Maintainer Steven E. Pav <shabbychef@gmail.com>

Version 0.1.1

Date 2021-03-11

License LGPL-3

Title Data and code for the book, The Sharpe Ratio: Statistics and Applications

BugReports https://github.com/shabbychef/tsrsa/issues

Description Publicly available Market data, mostly compiled by Kenneth French, and loaded from Quandl.

RoxygenNote 6.1.1

URL https://github.com/shabbychef/tsrsa

Depends R (>= 2.10), xts

Collate 'tsrsa.r'

LazyData true

Repository https://shabbychef.r-universe.dev

RemoteUrl https://github.com/shabbychef/tsrsa

RemoteRef HEAD

RemoteSha 4e566e3744b51fc1d9f360437e80c519d130dc91

Contents

dff4 *Daily Fama French 4 Factor Returns*

Description

The daily returns of the 4 Fama French Factors: Market, the cap factor SMB, the growth factor HML, and the momentum factor UMD.

Usage

```
dff4
```

Format

An `xts` object with 24,795 observations and 5 columns. The data run from January, 1927 through December, 2020. As in the upstream source, the data are given in *percents*, meaning a value of 1.00 corresponds to a 1% movement. Note also that returns presumably are 'simple' returns, not log returns, though this is not clarified by the upstream source. The columns are defined as follows:

- `Mkt` The Market daily return. Note that the risk free rate has been added back to the excess returns published by the upstream source.
- `SMB` The cap factor daily return.
- `HML` The growth factor daily return.
- `UMD` The momentum factor daily return.
- `RF` The risk-free rate, presumably as an daily rate, though note that no corrections have been made for weekend effects when adding the risk-free rate back to the market rate.

Author(s)

Steven E. Pav <steven@sharperat.io>

Source

Kenneth French data library. See http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html, data description at http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/Data_Library/f-f_factors.html.

Examples

```
## Not run:
data(dff4)
str(dff4)

## End(Not run)
```

dvix *Daily VIX Close*

Description

The daily closing value of the CBOE VIX index.

Usage

```
dvix
```

Format

An xts object with 7,809 observations and 1 columns. The data run from January, 1990 through December, 2020. The columns are defined as follows:

VIX The closing value of the VIX index. From January 2004 onward, the data are from the modern definition of the VIX index. The data from before 2004 are sourced from the back-computed data archive on CBOE.

Author(s)

Steven E. Pav <steven@sharperat.io>

Source

CBOE. See http://www.cboe.com/products/vix-index-volatility/vix-options-and-futures/vix-index/vix-historical-data.

Examples

```
## Not run:
data(dvix)
str(dvix)

## End(Not run)
```

gw *Goyal Welch Equity Premium Data.*

Description

The yearly excess returns of the Market, aligned with a number of lagging independent variables which have been posited to be predictive of the excess returns.

Usage

```
gw
```

Format

An xts object with 215 observations and 23 columns. The data are annual and span from 1802 through 2016. As in the upstream source, the data are given in *percents*, meaning a value of 1.00 corresponds to a 1% movement. The columns are defined in the paper, but are roughly as follows:

`cpi` The Consumer price index

`gold` The spot price of gold

`infl` Inflation as a percent?

`tbill` The Treasury bill rate?

`ltyld10` ???

`ltrate` ???

`callmoney` ????

`aaa` ????

`baa` ????

`corprate` ????

`corprate.i` ????

`sp500index` The closing value of the S&P 500 index.

`sp500d12` ????

`sp500e12` ????

`vwm` ????

`vwx` ????

`svar` ????

`bkmk` ????

`ntis` ????

`eqis` ????

`csp` ????

`cay` ????

`ik` ????

Author(s)

Steven E. Pav <steven@sharperat.io>

Source

Ivo Welch's data page, http://www.ivo-welch.info/professional/goyal-welch/.

References

Welch, Ivo and Goyal, Amit. "A Comprehensive Look at The Empirical Performance of Equity Premium Prediction." The Review of Financial Studies 21 , no. 4 (2007): 1455-1508. https://doi.org/10.1093/rfs/hhm014

Examples

```
## Not run:
data(gw)
str(gw)

## End(Not run)
```

`mff4` *Monthly Fama French 4 Factor Returns*

Description

The monthly returns of the 4 Fama French Factors: Market, the cap factor SMB, the growth factor HML, and the momentum factor UMD.

Usage

```
mff4
```

Format

An `xts` object with 1,128 observations and 5 columns. The data run from January, 1927 through December, 2020. As in the upstream source, the data are given in *percents*, meaning a value of 1.00 corresponds to a 1% movement. Note also that returns presumably are 'simple' returns, not log returns, though this is not clarified by the upstream source. The columns are defined as follows:

`Mkt` The Market monthly return. Note that the risk free rate has been added back to the excess returns published by the upstream source.

`SMB` The cap factor monthly return.

`HML` The growth factor monthly return.

`UMD` The momentum factor monthly return.

`RF` The risk-free rate, presumably as a monthly rate. The average value is arround 0.28, corresponding to an annualized rate of around 3.3%.

Author(s)

Steven E. Pav <steven@sharperat.io>

Source

Kenneth French data library. See http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html, data description at http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/Data_Library/f-f_factors.html.

Examples

```
## Not run:
data(mff4)
str(mff4)

## End(Not run)
```

---

mff6 *Monthly Fama French 6 Factor Returns*

Description

The monthly returns of the 6 Fama French Factors: Market, the cap factor SMB, the growth factor HML, the momentum factor UMD, the profitability factor RMW, and the invesment factor CMA.

Usage

```
mff6
```

Format

An `xts` object with 690 observations and 7 columns. The data run from July, 1963 through December, 2020. As in the upstream source, the data are given in *percents*, meaning a value of 1.00 corresponds to a 1% movement. Note also that returns presumably are 'simple' returns, not log returns, though this is not clarified by the upstream source. The columns are defined as follows:

- `Mkt` The Market monthly return. Note that the risk free rate has been added back to the excess returns published by the upstream source.
- `SMB` The cap factor monthly return.
- `HML` The growth factor monthly return.
- `UMD` The momentum factor monthly return.
- `RMW` The profitability factor monthly return.
- `CMA` The investment factor monthly return.
- `RF` The risk-free rate, presumably as a monthly rate. The average value is arround 0.39, corresponding to an annualized rate of around 4.7%.

Author(s)

Steven E. Pav <steven@sharperat.io>

Source

Kenneth French data library. See http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html, and data description at http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/Data_Library/f-f_5_factors_2x3.html.

Examples

```
## Not run:
data(mff6)
str(mff6)

## End(Not run)
```

---

mind10 *Monthly Fama French 10 Industry Returns*

Description

The monthly returns of 10 industries: Nondurable goods, durable goods, Manufacturing, Energy, High Technology, Telecom, Retail, Healthcare, Utilities and Other.

Usage

```
mind10
```

Format

An `xts` object with 1,128 observations and 10 columns. The data run from January, 1927 through December, 2020. As in the upstream source, the data are given in *percents*, meaning a value of 1.00 corresponds to a 1% movement. Note also that returns presumably are 'simple' returns, not log returns, though this is not clarified by the upstream source. The columns are defined as follows:

`NondurableGoods` The monthly returns of the nondurable goods industry, published as "NoDur".

`DurableGoods` The monthly returns of the durable goods industry, published as "Durbl".

`Manufacturing` The monthly returns of the Manufacturing industry, published as "Manuf".

`Energy` The monthly returns of the Energy industry, published as "Enrgy".

`Technology` The monthly returns of the Technology industry, published as "HiTec".

`Telecom` The monthly returns of the Telecommunications industry, published as "Telcm".

`Retail` The monthly returns of the Retail industry, published as "Shops".

`Healthcare` The monthly returns of the Healthcare industry, published as "Hlth".

`Utilities` The monthly returns of the Utilities industry, published as "Utils".

`Other` The monthly returns of the Other industry, published as "Other".

Note

These are not the "ex dividend" returns series.

Author(s)

Steven E. Pav <steven@sharperat.io>

Source

Kenneth French data library. See http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html, data description at http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/Data_Library/det_10_ind_port.html.

Examples

```
## Not run:
data(mind10)
str(mind10)

## End(Not run)
```

`mind5` *Monthly Fama French 5 Industry Returns*

Description

The monthly returns of 5 industries: Consumer, Manufacturing, High Technology, Healthcare and Other.

Usage

```
mind5
```

Format

An `xts` object with 1,128 observations and 5 columns. The data run from January, 1927 through December, 2020. As in the upstream source, the data are given in *percents*, meaning a value of 1.00 corresponds to a 1% movement. Note also that returns presumably are 'simple' returns, not log returns, though this is not clarified by the upstream source. The columns are defined as follows:

`Consumer` The monthly returns of the Consumer industry, published as "Cnsmr".

`Manufacturing` The monthly returns of the Manufacturing industry, published as "Manuf".

`Technology` The monthly returns of the Technology industry, published as "HiTec".

`Healthcare` The monthly returns of the Healthcare industry, published as "Hlth".

`Other` The monthly returns of the Other industry, published as "Other".

Note

These are not the "ex dividend" returns series.

Author(s)

Steven E. Pav <steven@sharperat.io>

Source

Kenneth French data library. See http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html, data description at http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/Data_Library/det_5_ind_port.html.

Examples

```
## Not run:
data(mind5)
str(mind5)

## End(Not run)
```

Index