yahoofinance Documentation

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CHAPTER 1

Indices and tables

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- modindex
- search

CHAPTER 2

Basic Usage

2.1 Usage

Something something how to use

CHAPTER 3

API Documentation

3.1 API Documentation

Please note that the API is currently under development and things may change rapidly!

3.1.1 Core Interface

class yahoofinance.**IYahooData**(*locale*)

This is the base interface.

Each class in this library inherits implements this interface.

This class is NOT instantiable.

Parameters **locale** – a *yahoofinance.Locale* constant to determine which domain to query from.

to_csv()

Generates a CSV file.

to_dfs()

Generates a dictionary containing pandas.DataFrame.

3.1.2 Historical Data

class yahoofinance.**HistoricalPrices**(*instrument*, *start_date*, *end_date*, *date_format_string='%Y-%m-%d'*, *event='history'*, *frequency='1d'*, *locale=''*)

Retrieves historical data from Yahoo Finance.

Parameters

- **instrument** – The a stock instrument code to query.
- **start_date** – The start date for the query (inclusive).

- **end_date** – The end date for the query (inclusive).
- **date_format_string** – If *start_date* or *end_date* is not a `DateTime` object, the object passed in (string) will be parsed to the format string. Default: *%Y-%m-%d*.
- **event** – A *DataEvent* constant to determine what event to query for. Default: *DataEvent.HISTORICAL_PRICES*.
- **frequency** – A *DataFrequency* constant to determine the interval between records. Default: *DataFrequency.DAILY*.
- **locale** – A *Locale* constant to determine which domain to query from. Default: *Locale.US*.

Returns *HistoricalPrices* object

Return type *HistoricalPrices*

E.g. https://finance.yahoo.com/quote/AAPL/history

Usage:

```
>>> from yahoofinance import HistoricalPrices
>>> req = HistoricalPrices('AAPL')
Object<HistoricalPrices>
```

to_csv(*path=None*, *sep=', '*, *data_format='raw'*, *csv_dialect='excel'*)

Generates a CSV file.

Parameters

- **path** – The path to a file location. If it is *None*, this method returns the CSV as a string.
- **sep** – The separator between elements in the new line. NOT USED
- **data_format** – A *DataFormat* constant to determine how the data is exported. NOT USED
- **csv_dialect** – The dialect to write the CSV file. See Python in-built `csv`.

Returns *None* or `string`

Return type *None* or *string*

to_dfs(*data_format='raw'*)

Generates a dictionary containing `pandas.DataFrame`.

Parameters **data_format** – A *DataFormat* constant to determine how the data is exported. NOT USED

Returns `pandas.DataFrame`

Return type *pandas.DataFrame*

Dictionary keys

```
Historical Prices
```

Note: All of the below classes below are experimental and results may vary significantly as they data is scraped from the website. Use at your own risk!

3.1.3 Balance Sheet

class yahoofinance.**BalanceSheet**(*stock*, *locale=''*)
Retrieves annual balance sheet information from Yahoo Finance.

EXPERIMENTAL

Parameters

- **stock** – The a stock code to query.
- **locale** – A *Locale* constant to determine which domain to query from. Default: *Locale.US*.

Returns *BalanceSheet* object

Return type *BalanceSheet*

E.g. https://finance.yahoo.com/quote/AAPL/balance-sheet

Usage:

```
>>> from yahoofinance import BalanceSheet
>>> req = BalanceSheet('AAPL')
Object<BalanceSheet>
```

to_csv(*path=None*, *sep=', '*, *data_format='raw'*, *csv_dialect='excel'*)
Generates a CSV file.

Parameters

- **path** – The path to a file location. If it is *None*, this method returns the CSV as a string.
- **sep** – The separator between elements in the new line.
- **data_format** – A *DataFormat* constant to determine how the data is exported.
- **csv_dialect** – The dialect to write the CSV file. See Python in-built `csv`.

Returns *None* or `string`

Return type *None* or *string*

to_dfs(*data_format='raw'*)
Generates a dictionary containing `pandas.DataFrame`.

Parameters **data_format** – A *DataFormat* constant to determine how the data is exported.

Returns `pandas.DataFrame`

Return type *pandas.DataFrame*

Dictionary keys

```
Cash Flow
Overall
Operating activities
Investment activities
Financing activities
Changes in Cash
```

class yahoofinance.**BalanceSheetQuarterly**(*stock*, *locale=''*)
Retrieves quarterly balance sheet information from Yahoo Finance.

EXPERIMENTAL

Parameters

- **stock** – The a stock code to query.
- **locale** – A *Locale* constant to determine which domain to query from. Default: *Locale.US*.

Returns *BalanceSheetQuarterly* object

Return type *BalanceSheetQuarterly*

E.g. https://finance.yahoo.com/quote/AAPL/balance-sheet

Usage:

```
>>> from yahoofinance import BalanceSheetQuarterly
>>> req = BalanceSheetQuarterly('AAPL')
Object<BalanceSheetQuarterly>
```

3.1.4 Cash Flow

class yahoofinance.**CashFlow**(*stock*, *locale=''*)

Retrieves annual cash flow information from Yahoo Finance.

EXPERIMENTAL

Parameters

- **stock** – The a stock code to query.
- **locale** – A *Locale* constant to determine which domain to query from. Default: *Locale.US*.

Returns *CashFlow* object

Return type *CashFlow*

E.g. https://finance.yahoo.com/quote/AAPL/cash-flow

Usage:

```
>>> from yahoofinance import CashFlow
>>> req = CashFlow('AAPL')
Object<CashFlow>
```

to_csv(*path=None*, *sep=','*, *data_format='raw'*, *csv_dialect='excel'*)

Generates a CSV file.

Parameters

- **path** – The path to a file location. If it is *None*, this method returns the CSV as a string.
- **sep** – The separator between elements in the new line.
- **data_format** – A *DataFormat* constant to determine how the data is exported.
- **csv_dialect** – The dialect to write the CSV file. See Python in-built `csv`.

Returns *None* or `string`

Return type *None* or *string*

to_dfs(*data_format='raw'*)

Generates a dictionary containing `pandas.DataFrame`.

Parameters **data_format** – A *DataFormat* constant to determine how the data is exported.

Returns pandas.DataFrame

Return type *pandas.DataFrame*

Dictionary keys

```
Cash Flow
Overall
Operating activities
Investment activities
Financing activities
Changes in Cash
```

class yahoofinance.**CashFlowQuarterly**(*stock*, *locale=''*)

Retrieves quarterly cash flow information from Yahoo Finance.

EXPERIMENTAL

Parameters

- **stock** – The a stock code to query.
- **locale** – A *Locale* constant to determine which domain to query from. Default: *Locale.US*.

Returns *CashFlowQuarterly* object

Return type *CashFlowQuarterly*

E.g. https://finance.yahoo.com/quote/AAPL/cash-flow

Usage:

```
>>> from yahoofinance import CashFlowQuarterly
>>> req = CashFlowQuarterly('AAPL')
Object<CashFlowQuarterly>
```

3.1.5 Income Statement

class yahoofinance.**IncomeStatement**(*stock*, *locale=''*)

Retrieves annual balance sheet information from Yahoo Finance.

EXPERIMENTAL

Parameters

- **stock** – The a stock code to query.
- **locale** – A *Locale* constant to determine which domain to query from. Default: *Locale.US*.

Returns *IncomeStatement* object

Return type *IncomeStatement*

E.g. https://finance.yahoo.com/quote/AAPL/financials

Usage:

```
>>> from yahoofinance import IncomeStatement
>>> req = IncomeStatement('AAPL')
Object<IncomeStatement>
```

to_csv(*path=None*, *sep=', '*, *data_format='raw'*, *csv_dialect='excel'*)
Generates a CSV file.

Parameters

- **path** – The path to a file location. If it is *None*, this method returns the CSV as a string.
- **sep** – The separator between elements in the new line.
- **data_format** – A *DataFormat* constant to determine how the data is exported.
- **csv_dialect** – The dialect to write the CSV file. See Python in-built `csv`.

Returns *None* or `string`

Return type *None* or *string*

to_dfs(*data_format='raw'*)
Generates a dictionary containing `pandas.DataFrame`.

Parameters **data_format** – A *DataFormat* constant to determine how the data is exported.

Returns `pandas.DataFrame`

Return type *pandas.DataFrame*

Dictionary keys

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```

class yahoofinance.**IncomeStatementQuarterly**(*stock*, *locale=''*)
Retrieves quarterly balance sheet information from Yahoo Finance.

EXPERIMENTAL

Parameters

- **stock** – The a stock code to query.
- **locale** – A *Locale* constant to determine which domain to query from. Default: *Locale.US*.

Returns *IncomeStatementQuarterly* object

Return type *IncomeStatementQuarterly*

E.g. https://finance.yahoo.com/quote/AAPL/financials

Usage:

```
>>> from yahoofinance import IncomeStatementQuarterly
>>> req = IncomeStatementQuarterly('AAPL')
Object<IncomeStatementQuarterly>
```

3.1.6 Asset Profile

class yahoofinance.**AssetProfile**(*stock*, *locale=''*)
Retrieves the asset profile from Yahoo Finance.

EXPERIMENTAL

Parameters

- **stock** – The stock ticker
- **locale** – A *Local* constant to determine which domain to query from. Default: *Locale.US*.

Returns *AssetProfile* object

Return type *AssetProfile*

E.g. https://finance.yahoo.com/quote/AAPL/profile

Usage:

```
>>> from yahoofinance import AssetProfile
>>> req = AssetProfile('AAPL')
Object<AssetProfile>
```

to_csv(*path*, *sep=','*, *data_format='raw'*, *csv_dialect='excel'*)
Generates a CSV file.

Parameters

- **path** – The path to a file location. If it is *None*, this method returns the CSV as a string.
- **sep** – The separator between elements in the new line. NOT USED
- **data_format** – A *DataFormat* constant to determine how the data is exported. NOT USED
- **csv_dialect** – The dialect to write the CSV file. See Python in-built `csv`.

Returns *None* or `string`

Return type *None* or *string*

to_dfs(*data_format='raw'*)
Generates a dictionary containing `pandas.DataFrame`.

3.1.7 Additional Config

class yahoofinance.**Locale**
Provides locale information to any `IYahooData` implementations.

By using your local domain, it may speed up queries by a *miniscule* amount or bypass certain country domain filters and restrictions.

AU = 'au'
Uses the Australian domain. E.g. https://au.finance.yahoo.com/quote/AAPL/

CA = 'ca'
Uses the Canadian domain. E.g. https://ca.finance.yahoo.com/quote/AAPL/

US = ''
Uses the United States domain. E.g. https://finance.yahoo.com/quote/AAPL/

static locale_url(*locale*)
This is an auxilary method to determine the domain url for a locale.

Parameters **locale** – A *Locale* string constant. A hard coded string can also be used if the 2 letter domain is known.

Returns string object

Return type *string*

class yahoofinance.**DataEvent**
Provides data event information for HistoricalData.

Yahoo provides 3 different types of historical data sets.

class yahoofinance.**DataFrequency**
Provides data frequency information for HistoricalData.

Yahoo provides data at 3 different time granuarities.

DAILY = '1d'
Retrieve data at daily intervals.

MONTHLY = '1mo'
Retrieve data at montly intervals.

WEEKLY = '1wk'
Retrieve data at weekly intervals.

class yahoofinance.**DataFormat**
Selects the way data is formatted for IYahooData implementations.

LONG = 'longFmt'
Provides a longer formatted value. E.g. 1,000,000.0

RAW = 'raw'
Provides a raw numerical value. E.g. 1000000.0

SHORT = 'fmt'
Provides a shorter formatted value. E.g. 1.0M

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