





API reference

This page gives an overview of all public pandas objects, functions and methods. All classes and functions exposed in pandas.* namespace are public.

The following subpackages are public.

- pandas.errors: Custom exception and warnings classes that are raised by pandas.
- pandas.plotting: Plotting public API.
- pandas.testing: Functions that are useful for writing tests involving pandas objects.
- pandas.api.extensions: Functions and classes for extending pandas objects.
- pandas.api.indexers: Functions and classes for rolling window indexers.
- pandas.api.interchange: DataFrame interchange protocol.
- pandas.api.types: Datatype classes and functions.
- pandas.api.typing : Classes that may be necessary for type-hinting. These are classes that are encountered as intermediate results but should not be instantiated directly by users. These classes are not to be confused with classes from the pandas-stubs package which has classes in addition to those that occur in pandas for type-hinting.

In addition, public functions in pandas.io and pandas.tseries submodules are mentioned in the documentation.

Warning

The pandas.core, pandas.compat, and pandas.util top-level modules are PRIVATE. Stable functionality in such modules is not guaranteed.

Input/output

Pickling

Flat file

Clipboard

Excel

<u>HTML</u>	
<u>XML</u>	
<u>Latex</u>	
HDFStore: PyTables (HDF5)	
<u>Feather</u>	
<u>Parquet</u>	
<u>ORC</u>	
SAS	
<u>SPSS</u>	
SQL	
Google BigQuery	
<u>STATA</u>	
General functions	
Data manipulations	
Top-level missing data	
Top-level dealing with numeric data	
Top-level dealing with datetimelike data	
Top-level dealing with Interval data	
Top-level evaluation	
Datetime formats	
Hashing	
Importing from other DataFrame libraries	
<u>Series</u>	
Constructor	
<u>Attributes</u>	
Conversion	
Indexing, iteration	
Binary operator functions	
Function application, GroupBy & window	
Computations / descriptive stats	
Reindexing / selection / label manipulation	
Missina data handlina	
Skip to main content	t

Combining / comparing / joining / merging
Time Series-related
Accessors
Plotting
Serialization / IO / conversion
<u>DataFrame</u>
Constructor
Attributes and underlying data
Conversion
Indexing, iteration
Binary operator functions
Function application, GroupBy & window
Computations / descriptive stats
Reindexing / selection / label manipulation
Missing data handling
Reshaping, sorting, transposing
Combining / comparing / joining / merging
Time Series-related
<u>Flags</u>
<u>Metadata</u>
Plotting
Sparse accessor
Serialization / IO / conversion
pandas arrays, scalars, and data types
<u>Objects</u>
<u>Utilities</u>
Index objects
Index
Numeric Index
CategoricalIndex
Intervalindex
MultiIndex
Skip to main content

	TimedeltaIndex
	PeriodIndex
Da	ite offsets
	<u>DateOffset</u>
	BusinessDay
	BusinessHour
	CustomBusinessDay
	CustomBusinessHour
	MonthEnd
	<u>MonthBegin</u>
	BusinessMonthEnd
	BusinessMonthBegin
	CustomBusinessMonthEnd
	CustomBusinessMonthBegin
	SemiMonthEnd
	SemiMonthBegin
	Week
	WeekOfMonth
	LastWeekOfMonth
	BQuarterEnd
	BQuarterBegin
	QuarterEnd
	QuarterBegin
	BYearEnd
	BYearBegin
	YearEnd
	YearBegin
	FY5253
	FY5253Quarter
	<u>Easter</u>
	Tick
	Day

<u>Hour</u>
<u>Minute</u>
Second
<u>Milli</u>
<u>Micro</u>
<u>Nano</u>
Frequencies
pandas.tseries.frequencies.to_offset
Window
Rolling window functions
Weighted window functions
Expanding window functions
Exponentially-weighted window functions
Window indexer
GroupBy
Indexing, iteration
Function application helper
Function application
DataFrameGroupBy computations / descriptive stats
SeriesGroupBy computations / descriptive stats
Plotting and visualization
Resampling
Indexing, iteration
Function application
<u>Upsampling</u>
Computations / descriptive stats
<u>Style</u>
Styler constructor
Styler properties
Style application
Builtin styles
Style export and import
Skip to main content

```
pandas.plotting.andrews_curves
   pandas.plotting.autocorrelation_plot
   pandas.plotting.bootstrap_plot
   pandas.plotting.boxplot
   pandas.plotting.deregister_matplotlib_converters
  pandas.plotting.lag_plot
  pandas.plotting.parallel_coordinates
  pandas.plotting.plot_params
   pandas.plotting.radviz
   pandas.plotting.register_matplotlib_converters
  pandas.plotting.scatter_matrix
  pandas.plotting.table
Options and settings
  Working with options
  Numeric formatting
Extensions
  pandas.api.extensions.register_extension_dtype
   pandas.api.extensions.register_dataframe_accessor
  pandas.api.extensions.register_series_accessor
  pandas.api.extensions.register_index_accessor
   pandas.api.extensions.ExtensionDtype
   pandas.api.extensions.ExtensionArray
  pandas.arrays.NumpyExtensionArray
  pandas.api.indexers.check_array_indexer
Testing
  Assertion functions
   Exceptions and warnings
  Bug report function
  Test suite runner
Missing values
   pandas.NA
```

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