**hMethods**

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| [**abs**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.abs.html#pandas.DataFrame.abs)() | Return a Series/DataFrame with absolute numeric value of each element. |
| [**add**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.add.html#pandas.DataFrame.add)(other[, axis, level, fill\_value]) | Get Addition of dataframe and other, element-wise (binary operator *add*). |
| [**add\_prefix**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.add_prefix.html#pandas.DataFrame.add_prefix)(prefix) | Prefix labels with string *prefix*. |
| [**add\_suffix**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.add_suffix.html#pandas.DataFrame.add_suffix)(suffix) | Suffix labels with string *suffix*. |
| [**agg**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.agg.html#pandas.DataFrame.agg)([func, axis]) | Aggregate using one or more operations over the specified axis. |
| [**aggregate**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.aggregate.html#pandas.DataFrame.aggregate)([func, axis]) | Aggregate using one or more operations over the specified axis. |
| [**align**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.align.html#pandas.DataFrame.align)(other[, join, axis, level, copy, ...]) | Align two objects on their axes with the specified join method. |
| [**all**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.all.html#pandas.DataFrame.all)([axis, bool\_only, skipna, level]) | Return whether all elements are True, potentially over an axis. |
| [**any**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.any.html#pandas.DataFrame.any)([axis, bool\_only, skipna, level]) | Return whether any element is True, potentially over an axis. |
| [**append**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.append.html#pandas.DataFrame.append)(other[, ignore\_index, ...]) | Append rows of *other* to the end of caller, returning a new object. |
| [**apply**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.apply.html#pandas.DataFrame.apply)(func[, axis, raw, result\_type, args]) | Apply a function along an axis of the DataFrame. |
| [**applymap**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.applymap.html#pandas.DataFrame.applymap)(func[, na\_action]) | Apply a function to a Dataframe elementwise. |
| [**asfreq**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.asfreq.html#pandas.DataFrame.asfreq)(freq[, method, how, normalize, ...]) | Convert time series to specified frequency. |
| [**asof**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.asof.html#pandas.DataFrame.asof)(where[, subset]) | Return the last row(s) without any NaNs before *where*. |
| [**assign**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.assign.html#pandas.DataFrame.assign)(\*\*kwargs) | Assign new columns to a DataFrame. |
| [**astype**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.astype.html#pandas.DataFrame.astype)(dtype[, copy, errors]) | Cast a pandas object to a specified dtype dtype. |
| [**at\_time**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.at_time.html#pandas.DataFrame.at_time)(time[, asof, axis]) | Select values at particular time of day (e.g., 9:30AM). |
| [**backfill**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.backfill.html#pandas.DataFrame.backfill)([axis, inplace, limit, downcast]) | Synonym for [**DataFrame.fillna()**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.fillna.html#pandas.DataFrame.fillna) with method='bfill'. |
| [**between\_time**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.between_time.html#pandas.DataFrame.between_time)(start\_time, end\_time[, ...]) | Select values between particular times of the day (e.g., 9:00-9:30 AM). |
| [**bfill**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.bfill.html#pandas.DataFrame.bfill)([axis, inplace, limit, downcast]) | Synonym for [**DataFrame.fillna()**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.fillna.html#pandas.DataFrame.fillna) with method='bfill'. |
| [**bool**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.bool.html#pandas.DataFrame.bool)() | Return the bool of a single element Series or DataFrame. |
| [**boxplot**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.boxplot.html#pandas.DataFrame.boxplot)([column, by, ax, fontsize, rot, ...]) | Make a box plot from DataFrame columns. |
| [**clip**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.clip.html#pandas.DataFrame.clip)([lower, upper, axis, inplace]) | Trim values at input threshold(s). |
| [**combine**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.combine.html#pandas.DataFrame.combine)(other, func[, fill\_value, overwrite]) | Perform column-wise combine with another DataFrame. |
| [**combine\_first**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.combine_first.html#pandas.DataFrame.combine_first)(other) | Update null elements with value in the same location in *other*. |
| [**compare**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.compare.html#pandas.DataFrame.compare)(other[, align\_axis, keep\_shape, ...]) | Compare to another DataFrame and show the differences. |
| [**convert\_dtypes**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.convert_dtypes.html#pandas.DataFrame.convert_dtypes)([infer\_objects, ...]) | Convert columns to best possible dtypes using dtypes supporting pd.NA. |
| [**copy**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.copy.html#pandas.DataFrame.copy)([deep]) | Make a copy of this object's indices and data. |
| [**corr**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.corr.html#pandas.DataFrame.corr)([method, min\_periods]) | Compute pairwise correlation of columns, excluding NA/null values. |
| [**corrwith**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.corrwith.html#pandas.DataFrame.corrwith)(other[, axis, drop, method]) | Compute pairwise correlation. |
| [**count**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.count.html#pandas.DataFrame.count)([axis, level, numeric\_only]) | Count non-NA cells for each column or row. |
| [**cov**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.cov.html#pandas.DataFrame.cov)([min\_periods, ddof]) | Compute pairwise covariance of columns, excluding NA/null values. |
| [**cummax**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.cummax.html#pandas.DataFrame.cummax)([axis, skipna]) | Return cumulative maximum over a DataFrame or Series axis. |
| [**cummin**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.cummin.html#pandas.DataFrame.cummin)([axis, skipna]) | Return cumulative minimum over a DataFrame or Series axis. |
| [**cumprod**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.cumprod.html#pandas.DataFrame.cumprod)([axis, skipna]) | Return cumulative product over a DataFrame or Series axis. |
| [**cumsum**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.cumsum.html#pandas.DataFrame.cumsum)([axis, skipna]) | Return cumulative sum over a DataFrame or Series axis. |
| [**describe**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.describe.html#pandas.DataFrame.describe)([percentiles, include, exclude, ...]) | Generate descriptive statistics. |
| [**diff**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.diff.html#pandas.DataFrame.diff)([periods, axis]) | First discrete difference of element. |
| [**div**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.div.html#pandas.DataFrame.div)(other[, axis, level, fill\_value]) | Get Floating division of dataframe and other, element-wise (binary operator *truediv*). |
| [**divide**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.divide.html#pandas.DataFrame.divide)(other[, axis, level, fill\_value]) | Get Floating division of dataframe and other, element-wise (binary operator *truediv*). |
| [**dot**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.dot.html#pandas.DataFrame.dot)(other) | Compute the matrix multiplication between the DataFrame and other. |
| [**drop**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.drop.html#pandas.DataFrame.drop)([labels, axis, index, columns, level, ...]) | Drop specified labels from rows or columns. |
| [**drop\_duplicates**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.drop_duplicates.html#pandas.DataFrame.drop_duplicates)([subset, keep, inplace, ...]) | Return DataFrame with duplicate rows removed. |
| [**droplevel**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.droplevel.html#pandas.DataFrame.droplevel)(level[, axis]) | Return Series/DataFrame with requested index / column level(s) removed. |
| [**dropna**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.dropna.html#pandas.DataFrame.dropna)([axis, how, thresh, subset, inplace]) | Remove missing values. |
| [**duplicated**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.duplicated.html#pandas.DataFrame.duplicated)([subset, keep]) | Return boolean Series denoting duplicate rows. |
| [**eq**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.eq.html#pandas.DataFrame.eq)(other[, axis, level]) | Get Equal to of dataframe and other, element-wise (binary operator *eq*). |
| [**equals**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.equals.html#pandas.DataFrame.equals)(other) | Test whether two objects contain the same elements. |
| [**eval**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.eval.html#pandas.DataFrame.eval)(expr[, inplace]) | Evaluate a string describing operations on DataFrame columns. |
| [**ewm**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.ewm.html#pandas.DataFrame.ewm)([com, span, halflife, alpha, ...]) | Provide exponential weighted (EW) functions. |
| [**expanding**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.expanding.html#pandas.DataFrame.expanding)([min\_periods, center, axis, method]) | Provide expanding transformations. |
| [**explode**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.explode.html#pandas.DataFrame.explode)(column[, ignore\_index]) | Transform each element of a list-like to a row, replicating index values. |
| [**ffill**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.ffill.html#pandas.DataFrame.ffill)([axis, inplace, limit, downcast]) | Synonym for [**DataFrame.fillna()**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.fillna.html#pandas.DataFrame.fillna) with method='ffill'. |
| [**fillna**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.fillna.html#pandas.DataFrame.fillna)([value, method, axis, inplace, ...]) | Fill NA/NaN values using the specified method. |
| [**filter**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.filter.html#pandas.DataFrame.filter)([items, like, regex, axis]) | Subset the dataframe rows or columns according to the specified index labels. |
| [**first**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.first.html#pandas.DataFrame.first)(offset) | Select initial periods of time series data based on a date offset. |
| [**first\_valid\_index**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.first_valid_index.html#pandas.DataFrame.first_valid_index)() | Return index for first non-NA value or None, if no NA value is found. |
| [**floordiv**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.floordiv.html#pandas.DataFrame.floordiv)(other[, axis, level, fill\_value]) | Get Integer division of dataframe and other, element-wise (binary operator *floordiv*). |
| [**from\_dict**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.from_dict.html#pandas.DataFrame.from_dict)(data[, orient, dtype, columns]) | Construct DataFrame from dict of array-like or dicts. |
| [**from\_records**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.from_records.html#pandas.DataFrame.from_records)(data[, index, exclude, ...]) | Convert structured or record ndarray to DataFrame. |
| [**ge**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.ge.html#pandas.DataFrame.ge)(other[, axis, level]) | Get Greater than or equal to of dataframe and other, element-wise (binary operator *ge*). |
| [**get**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.get.html#pandas.DataFrame.get)(key[, default]) | Get item from object for given key (ex: DataFrame column). |
| [**groupby**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.groupby.html#pandas.DataFrame.groupby)([by, axis, level, as\_index, sort, ...]) | Group DataFrame using a mapper or by a Series of columns. |
| [**gt**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.gt.html#pandas.DataFrame.gt)(other[, axis, level]) | Get Greater than of dataframe and other, element-wise (binary operator *gt*). |
| [**head**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.head.html#pandas.DataFrame.head)([n]) | Return the first *n* rows. |
| [**hist**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.hist.html#pandas.DataFrame.hist)([column, by, grid, xlabelsize, xrot, ...]) | Make a histogram of the DataFrame's columns. |
| [**idxmax**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.idxmax.html#pandas.DataFrame.idxmax)([axis, skipna]) | Return index of first occurrence of maximum over requested axis. |
| [**idxmin**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.idxmin.html#pandas.DataFrame.idxmin)([axis, skipna]) | Return index of first occurrence of minimum over requested axis. |
| [**infer\_objects**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.infer_objects.html#pandas.DataFrame.infer_objects)() | Attempt to infer better dtypes for object columns. |
| [**info**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.info.html#pandas.DataFrame.info)([verbose, buf, max\_cols, memory\_usage, ...]) | Print a concise summary of a DataFrame. |
| [**insert**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.insert.html#pandas.DataFrame.insert)(loc, column, value[, allow\_duplicates]) | Insert column into DataFrame at specified location. |
| [**interpolate**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.interpolate.html#pandas.DataFrame.interpolate)([method, axis, limit, inplace, ...]) | Fill NaN values using an interpolation method. |
| [**isin**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.isin.html#pandas.DataFrame.isin)(values) | Whether each element in the DataFrame is contained in values. |
| [**isna**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.isna.html#pandas.DataFrame.isna)() | Detect missing values. |
| [**isnull**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.isnull.html#pandas.DataFrame.isnull)() | Detect missing values. |
| [**items**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.items.html#pandas.DataFrame.items)() | Iterate over (column name, Series) pairs. |
| [**iteritems**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.iteritems.html#pandas.DataFrame.iteritems)() | Iterate over (column name, Series) pairs. |
| [**iterrows**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.iterrows.html#pandas.DataFrame.iterrows)() | Iterate over DataFrame rows as (index, Series) pairs. |
| [**itertuples**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.itertuples.html#pandas.DataFrame.itertuples)([index, name]) | Iterate over DataFrame rows as namedtuples. |
| [**join**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.join.html#pandas.DataFrame.join)(other[, on, how, lsuffix, rsuffix, sort]) | Join columns of another DataFrame. |
| [**keys**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.keys.html#pandas.DataFrame.keys)() | Get the 'info axis' (see Indexing for more). |
| [**kurt**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.kurt.html#pandas.DataFrame.kurt)([axis, skipna, level, numeric\_only]) | Return unbiased kurtosis over requested axis. |
| [**kurtosis**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.kurtosis.html#pandas.DataFrame.kurtosis)([axis, skipna, level, numeric\_only]) | Return unbiased kurtosis over requested axis. |
| [**last**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.last.html#pandas.DataFrame.last)(offset) | Select final periods of time series data based on a date offset. |
| [**last\_valid\_index**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.last_valid_index.html#pandas.DataFrame.last_valid_index)() | Return index for last non-NA value or None, if no NA value is found. |
| [**le**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.le.html#pandas.DataFrame.le)(other[, axis, level]) | Get Less than or equal to of dataframe and other, element-wise (binary operator *le*). |
| [**lookup**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.lookup.html#pandas.DataFrame.lookup)(row\_labels, col\_labels) | (DEPRECATED) Label-based "fancy indexing" function for DataFrame. |
| [**lt**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.lt.html#pandas.DataFrame.lt)(other[, axis, level]) | Get Less than of dataframe and other, element-wise (binary operator *lt*). |
| [**mad**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.mad.html#pandas.DataFrame.mad)([axis, skipna, level]) | Return the mean absolute deviation of the values over the requested axis. |
| [**mask**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.mask.html#pandas.DataFrame.mask)(cond[, other, inplace, axis, level, ...]) | Replace values where the condition is True. |
| [**max**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.max.html#pandas.DataFrame.max)([axis, skipna, level, numeric\_only]) | Return the maximum of the values over the requested axis. |
| [**mean**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.mean.html#pandas.DataFrame.mean)([axis, skipna, level, numeric\_only]) | Return the mean of the values over the requested axis. |
| [**median**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.median.html#pandas.DataFrame.median)([axis, skipna, level, numeric\_only]) | Return the median of the values over the requested axis. |
| [**melt**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.melt.html#pandas.DataFrame.melt)([id\_vars, value\_vars, var\_name, ...]) | Unpivot a DataFrame from wide to long format, optionally leaving identifiers set. |
| [**memory\_usage**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.memory_usage.html#pandas.DataFrame.memory_usage)([index, deep]) | Return the memory usage of each column in bytes. |
| [**merge**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.merge.html#pandas.DataFrame.merge)(right[, how, on, left\_on, right\_on, ...]) | Merge DataFrame or named Series objects with a database-style join. |
| [**min**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.min.html#pandas.DataFrame.min)([axis, skipna, level, numeric\_only]) | Return the minimum of the values over the requested axis. |
| [**mod**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.mod.html#pandas.DataFrame.mod)(other[, axis, level, fill\_value]) | Get Modulo of dataframe and other, element-wise (binary operator *mod*). |
| [**mode**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.mode.html#pandas.DataFrame.mode)([axis, numeric\_only, dropna]) | Get the mode(s) of each element along the selected axis. |
| [**mul**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.mul.html#pandas.DataFrame.mul)(other[, axis, level, fill\_value]) | Get Multiplication of dataframe and other, element-wise (binary operator *mul*). |
| [**multiply**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.multiply.html#pandas.DataFrame.multiply)(other[, axis, level, fill\_value]) | Get Multiplication of dataframe and other, element-wise (binary operator *mul*). |
| [**ne**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.ne.html#pandas.DataFrame.ne)(other[, axis, level]) | Get Not equal to of dataframe and other, element-wise (binary operator *ne*). |
| [**nlargest**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.nlargest.html#pandas.DataFrame.nlargest)(n, columns[, keep]) | Return the first *n* rows ordered by *columns* in descending order. |
| [**notna**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.notna.html#pandas.DataFrame.notna)() | Detect existing (non-missing) values. |
| [**notnull**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.notnull.html#pandas.DataFrame.notnull)() | Detect existing (non-missing) values. |
| [**nsmallest**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.nsmallest.html#pandas.DataFrame.nsmallest)(n, columns[, keep]) | Return the first *n* rows ordered by *columns* in ascending order. |
| [**nunique**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.nunique.html#pandas.DataFrame.nunique)([axis, dropna]) | Count number of distinct elements in specified axis. |
| [**pad**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.pad.html#pandas.DataFrame.pad)([axis, inplace, limit, downcast]) | Synonym for [**DataFrame.fillna()**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.fillna.html#pandas.DataFrame.fillna) with method='ffill'. |
| [**pct\_change**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.pct_change.html#pandas.DataFrame.pct_change)([periods, fill\_method, limit, freq]) | Percentage change between the current and a prior element. |
| [**pipe**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.pipe.html#pandas.DataFrame.pipe)(func, \*args, \*\*kwargs) | Apply func(self, \*args, \*\*kwargs). |
| [**pivot**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.pivot.html#pandas.DataFrame.pivot)([index, columns, values]) | Return reshaped DataFrame organized by given index / column values. |
| [**pivot\_table**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.pivot_table.html#pandas.DataFrame.pivot_table)([values, index, columns, ...]) | Create a spreadsheet-style pivot table as a DataFrame. |
| [**plot**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.plot.html#pandas.DataFrame.plot) | alias of **pandas.plotting.\_core.PlotAccessor** |
| [**pop**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.pop.html#pandas.DataFrame.pop)(item) | Return item and drop from frame. |
| [**pow**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.pow.html#pandas.DataFrame.pow)(other[, axis, level, fill\_value]) | Get Exponential power of dataframe and other, element-wise (binary operator *pow*). |
| [**prod**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.prod.html#pandas.DataFrame.prod)([axis, skipna, level, numeric\_only, ...]) | Return the product of the values over the requested axis. |
| [**product**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.product.html#pandas.DataFrame.product)([axis, skipna, level, numeric\_only, ...]) | Return the product of the values over the requested axis. |
| [**quantile**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.quantile.html#pandas.DataFrame.quantile)([q, axis, numeric\_only, interpolation]) | Return values at the given quantile over requested axis. |
| [**query**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.query.html#pandas.DataFrame.query)(expr[, inplace]) | Query the columns of a DataFrame with a boolean expression. |
| [**radd**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.radd.html#pandas.DataFrame.radd)(other[, axis, level, fill\_value]) | Get Addition of dataframe and other, element-wise (binary operator *radd*). |
| [**rank**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rank.html#pandas.DataFrame.rank)([axis, method, numeric\_only, ...]) | Compute numerical data ranks (1 through n) along axis. |
| [**rdiv**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rdiv.html#pandas.DataFrame.rdiv)(other[, axis, level, fill\_value]) | Get Floating division of dataframe and other, element-wise (binary operator *rtruediv*). |
| [**reindex**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.reindex.html#pandas.DataFrame.reindex)([labels, index, columns, axis, ...]) | Conform Series/DataFrame to new index with optional filling logic. |
| [**reindex\_like**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.reindex_like.html#pandas.DataFrame.reindex_like)(other[, method, copy, limit, ...]) | Return an object with matching indices as other object. |
| [**rename**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rename.html#pandas.DataFrame.rename)([mapper, index, columns, axis, copy, ...]) | Alter axes labels. |
| [**rename\_axis**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rename_axis.html#pandas.DataFrame.rename_axis)([mapper, index, columns, axis, ...]) | Set the name of the axis for the index or columns. |
| [**reorder\_levels**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.reorder_levels.html#pandas.DataFrame.reorder_levels)(order[, axis]) | Rearrange index levels using input order. |
| [**replace**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.replace.html#pandas.DataFrame.replace)([to\_replace, value, inplace, limit, ...]) | Replace values given in *to\_replace* with *value*. |
| [**resample**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.resample.html#pandas.DataFrame.resample)(rule[, axis, closed, label, ...]) | Resample time-series data. |
| [**reset\_index**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.reset_index.html#pandas.DataFrame.reset_index)([level, drop, inplace, ...]) | Reset the index, or a level of it. |
| [**rfloordiv**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rfloordiv.html#pandas.DataFrame.rfloordiv)(other[, axis, level, fill\_value]) | Get Integer division of dataframe and other, element-wise (binary operator *rfloordiv*). |
| [**rmod**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rmod.html#pandas.DataFrame.rmod)(other[, axis, level, fill\_value]) | Get Modulo of dataframe and other, element-wise (binary operator *rmod*). |
| [**rmul**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rmul.html#pandas.DataFrame.rmul)(other[, axis, level, fill\_value]) | Get Multiplication of dataframe and other, element-wise (binary operator *rmul*). |
| [**rolling**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rolling.html#pandas.DataFrame.rolling)(window[, min\_periods, center, ...]) | Provide rolling window calculations. |
| [**round**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.round.html#pandas.DataFrame.round)([decimals]) | Round a DataFrame to a variable number of decimal places. |
| [**rpow**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rpow.html#pandas.DataFrame.rpow)(other[, axis, level, fill\_value]) | Get Exponential power of dataframe and other, element-wise (binary operator *rpow*). |
| [**rsub**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rsub.html#pandas.DataFrame.rsub)(other[, axis, level, fill\_value]) | Get Subtraction of dataframe and other, element-wise (binary operator *rsub*). |
| [**rtruediv**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.rtruediv.html#pandas.DataFrame.rtruediv)(other[, axis, level, fill\_value]) | Get Floating division of dataframe and other, element-wise (binary operator *rtruediv*). |
| [**sample**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.sample.html#pandas.DataFrame.sample)([n, frac, replace, weights, ...]) | Return a random sample of items from an axis of object. |
| [**select\_dtypes**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.select_dtypes.html#pandas.DataFrame.select_dtypes)([include, exclude]) | Return a subset of the DataFrame's columns based on the column dtypes. |
| [**sem**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.sem.html#pandas.DataFrame.sem)([axis, skipna, level, ddof, numeric\_only]) | Return unbiased standard error of the mean over requested axis. |
| [**set\_axis**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.set_axis.html#pandas.DataFrame.set_axis)(labels[, axis, inplace]) | Assign desired index to given axis. |
| [**set\_flags**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.set_flags.html#pandas.DataFrame.set_flags)(\*[, copy, allows\_duplicate\_labels]) | Return a new object with updated flags. |
| [**set\_index**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.set_index.html#pandas.DataFrame.set_index)(keys[, drop, append, inplace, ...]) | Set the DataFrame index using existing columns. |
| [**shift**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.shift.html#pandas.DataFrame.shift)([periods, freq, axis, fill\_value]) | Shift index by desired number of periods with an optional time *freq*. |
| [**skew**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.skew.html#pandas.DataFrame.skew)([axis, skipna, level, numeric\_only]) | Return unbiased skew over requested axis. |
| [**slice\_shift**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.slice_shift.html#pandas.DataFrame.slice_shift)([periods, axis]) | (DEPRECATED) Equivalent to *shift* without copying data. |
| [**sort\_index**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.sort_index.html#pandas.DataFrame.sort_index)([axis, level, ascending, ...]) | Sort object by labels (along an axis). |
| [**sort\_values**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.sort_values.html#pandas.DataFrame.sort_values)(by[, axis, ascending, inplace, ...]) | Sort by the values along either axis. |
| [**sparse**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.sparse.html#pandas.DataFrame.sparse) | alias of **pandas.core.arrays.sparse.accessor.SparseFrameAccessor** |
| [**squeeze**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.squeeze.html#pandas.DataFrame.squeeze)([axis]) | Squeeze 1 dimensional axis objects into scalars. |
| [**stack**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.stack.html#pandas.DataFrame.stack)([level, dropna]) | Stack the prescribed level(s) from columns to index. |
| [**std**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.std.html#pandas.DataFrame.std)([axis, skipna, level, ddof, numeric\_only]) | Return sample standard deviation over requested axis. |
| [**sub**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.sub.html#pandas.DataFrame.sub)(other[, axis, level, fill\_value]) | Get Subtraction of dataframe and other, element-wise (binary operator *sub*). |
| [**subtract**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.subtract.html#pandas.DataFrame.subtract)(other[, axis, level, fill\_value]) | Get Subtraction of dataframe and other, element-wise (binary operator *sub*). |
| [**sum**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.sum.html#pandas.DataFrame.sum)([axis, skipna, level, numeric\_only, ...]) | Return the sum of the values over the requested axis. |
| [**swapaxes**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.swapaxes.html#pandas.DataFrame.swapaxes)(axis1, axis2[, copy]) | Interchange axes and swap values axes appropriately. |
| [**swaplevel**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.swaplevel.html#pandas.DataFrame.swaplevel)([i, j, axis]) | Swap levels i and j in a [**MultiIndex**](https://pandas.pydata.org/docs/reference/api/pandas.MultiIndex.html#pandas.MultiIndex). |
| [**tail**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.tail.html#pandas.DataFrame.tail)([n]) | Return the last *n* rows. |
| [**take**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.take.html#pandas.DataFrame.take)(indices[, axis, is\_copy]) | Return the elements in the given *positional* indices along an axis. |
| [**to\_clipboard**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_clipboard.html#pandas.DataFrame.to_clipboard)([excel, sep]) | Copy object to the system clipboard. |
| [**to\_csv**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_csv.html#pandas.DataFrame.to_csv)([path\_or\_buf, sep, na\_rep, ...]) | Write object to a comma-separated values (csv) file. |
| [**to\_dict**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_dict.html#pandas.DataFrame.to_dict)([orient, into]) | Convert the DataFrame to a dictionary. |
| [**to\_excel**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_excel.html#pandas.DataFrame.to_excel)(excel\_writer[, sheet\_name, na\_rep, ...]) | Write object to an Excel sheet. |
| [**to\_feather**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_feather.html#pandas.DataFrame.to_feather)(path, \*\*kwargs) | Write a DataFrame to the binary Feather format. |
| [**to\_gbq**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_gbq.html#pandas.DataFrame.to_gbq)(destination\_table[, project\_id, ...]) | Write a DataFrame to a Google BigQuery table. |
| [**to\_hdf**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_hdf.html#pandas.DataFrame.to_hdf)(path\_or\_buf, key[, mode, complevel, ...]) | Write the contained data to an HDF5 file using HDFStore. |
| [**to\_html**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_html.html#pandas.DataFrame.to_html)([buf, columns, col\_space, header, ...]) | Render a DataFrame as an HTML table. |
| [**to\_json**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_json.html#pandas.DataFrame.to_json)([path\_or\_buf, orient, date\_format, ...]) | Convert the object to a JSON string. |
| [**to\_latex**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_latex.html#pandas.DataFrame.to_latex)([buf, columns, col\_space, header, ...]) | Render object to a LaTeX tabular, longtable, or nested table/tabular. |
| [**to\_markdown**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_markdown.html#pandas.DataFrame.to_markdown)([buf, mode, index, storage\_options]) | Print DataFrame in Markdown-friendly format. |
| [**to\_numpy**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_numpy.html#pandas.DataFrame.to_numpy)([dtype, copy, na\_value]) | Convert the DataFrame to a NumPy array. |
| [**to\_parquet**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_parquet.html#pandas.DataFrame.to_parquet)([path, engine, compression, ...]) | Write a DataFrame to the binary parquet format. |
| [**to\_period**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_period.html#pandas.DataFrame.to_period)([freq, axis, copy]) | Convert DataFrame from DatetimeIndex to PeriodIndex. |
| [**to\_pickle**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_pickle.html#pandas.DataFrame.to_pickle)(path[, compression, protocol, ...]) | Pickle (serialize) object to file. |
| [**to\_records**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_records.html#pandas.DataFrame.to_records)([index, column\_dtypes, index\_dtypes]) | Convert DataFrame to a NumPy record array. |
| [**to\_sql**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_sql.html#pandas.DataFrame.to_sql)(name, con[, schema, if\_exists, ...]) | Write records stored in a DataFrame to a SQL database. |
| [**to\_stata**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_stata.html#pandas.DataFrame.to_stata)(path[, convert\_dates, write\_index, ...]) | Export DataFrame object to Stata dta format. |
| [**to\_string**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_string.html#pandas.DataFrame.to_string)([buf, columns, col\_space, header, ...]) | Render a DataFrame to a console-friendly tabular output. |
| [**to\_timestamp**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_timestamp.html#pandas.DataFrame.to_timestamp)([freq, how, axis, copy]) | Cast to DatetimeIndex of timestamps, at *beginning* of period. |
| [**to\_xarray**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_xarray.html#pandas.DataFrame.to_xarray)() | Return an xarray object from the pandas object. |
| [**to\_xml**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.to_xml.html#pandas.DataFrame.to_xml)([path\_or\_buffer, index, root\_name, ...]) | Render a DataFrame to an XML document. |
| [**transform**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.transform.html#pandas.DataFrame.transform)(func[, axis]) | Call func on self producing a DataFrame with transformed values. |
| [**transpose**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.transpose.html#pandas.DataFrame.transpose)(\*args[, copy]) | Transpose index and columns. |
| [**truediv**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.truediv.html#pandas.DataFrame.truediv)(other[, axis, level, fill\_value]) | Get Floating division of dataframe and other, element-wise (binary operator *truediv*). |
| [**truncate**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.truncate.html#pandas.DataFrame.truncate)([before, after, axis, copy]) | Truncate a Series or DataFrame before and after some index value. |
| [**tshift**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.tshift.html#pandas.DataFrame.tshift)([periods, freq, axis]) | (DEPRECATED) Shift the time index, using the index's frequency if available. |
| [**tz\_convert**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.tz_convert.html#pandas.DataFrame.tz_convert)(tz[, axis, level, copy]) | Convert tz-aware axis to target time zone. |
| [**tz\_localize**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.tz_localize.html#pandas.DataFrame.tz_localize)(tz[, axis, level, copy, ...]) | Localize tz-naive index of a Series or DataFrame to target time zone. |
| [**unstack**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.unstack.html#pandas.DataFrame.unstack)([level, fill\_value]) | Pivot a level of the (necessarily hierarchical) index labels. |
| [**update**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.update.html#pandas.DataFrame.update)(other[, join, overwrite, ...]) | Modify in place using non-NA values from another DataFrame. |
| [**value\_counts**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.value_counts.html#pandas.DataFrame.value_counts)([subset, normalize, sort, ...]) | Return a Series containing counts of unique rows in the DataFrame. |
| [**var**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.var.html#pandas.DataFrame.var)([axis, skipna, level, ddof, numeric\_only]) | Return unbiased variance over requested axis. |
| [**where**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.where.html#pandas.DataFrame.where)(cond[, other, inplace, axis, level, ...]) | Replace values where the condition is False. |
| [**xs**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.xs.html#pandas.DataFrame.xs)(key[, axis, level, drop\_level]) | Return cross-section from the Series/DataFrame. |

**Attributes**

|  |  |
| --- | --- |
| [**at**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.at.html#pandas.DataFrame.at) | Access a single value for a row/column label pair. |
| [**attrs**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.attrs.html#pandas.DataFrame.attrs) | Dictionary of global attributes of this dataset. |
| [**axes**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.axes.html#pandas.DataFrame.axes) | Return a list representing the axes of the DataFrame. |
| [**columns**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.columns.html#pandas.DataFrame.columns) | The column labels of the DataFrame. |
| [**dtypes**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.dtypes.html#pandas.DataFrame.dtypes) | Return the dtypes in the DataFrame. |
| [**empty**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.empty.html#pandas.DataFrame.empty) | Indicator whether DataFrame is empty. |
| [**flags**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.flags.html#pandas.DataFrame.flags) | Get the properties associated with this pandas object. |
| [**iat**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.iat.html#pandas.DataFrame.iat) | Access a single value for a row/column pair by integer position. |
| [**iloc**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.iloc.html#pandas.DataFrame.iloc) | Purely integer-location based indexing for selection by position. |
| [**index**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.index.html#pandas.DataFrame.index) | The index (row labels) of the DataFrame. |
| [**loc**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.loc.html#pandas.DataFrame.loc) | Access a group of rows and columns by label(s) or a boolean array. |
| [**ndim**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.ndim.html#pandas.DataFrame.ndim) | Return an int representing the number of axes / array dimensions. |
| [**shape**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.shape.html#pandas.DataFrame.shape) | Return a tuple representing the dimensionality of the DataFrame. |
| [**size**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.size.html#pandas.DataFrame.size) | Return an int representing the number of elements in this object. |
| [**style**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.style.html#pandas.DataFrame.style) | Returns a Styler object. |
| [**values**](https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.values.html#pandas.DataFrame.values) | Return a Numpy representation of the DataFrame. |