pandas.DataFrame.to_string

`DataFrame.`**`to_string`**(*self*, *buf=None*, *columns=None*, *col_space=None*, *header=True*, *index=True*, *na_rep='NaN'*, *formatters=None*, *float_format=None*, *sparsify=None*, *index_names=True*, *justify=None*, *max_rows=None*, *min_rows=None*, *max_cols=None*, *show_dimensions=False*, *decimal='.'*, *line_width=None*) [source]

Render a DataFrame to a console-friendly tabular output.

Parameters:

buf : *StringIO-like, optional*
Buffer to write to.

columns : *sequence, optional, default None*
The subset of columns to write. Writes all columns by default.

col_space : *int, optional*
The minimum width of each column.

header : *bool, optional*
Write out the column names. If a list of strings is given, it is assumed to be aliases for the column names.

index : *bool, optional, default True*
Whether to print index (row) labels.

na_rep : *str, optional, default 'NaN'*
String representation of NAN to use.

formatters : *list or dict of one-param. functions, optional*
Formatter functions to apply to columns' elements by position or name. The result of each function must be a unicode string. List must be of length equal to the number of columns.

float_format : *one-parameter function, optional, default None*
Formatter function to apply to columns' elements if they are floats. The result of this function must be a unicode string.

sparsify : *bool, optional, default True*
Set to False for a DataFrame with a hierarchical index to print every multiindex key at each row.

index_names : *bool, optional, default True*
Prints the names of the indexes.

justify : *str, default None*
How to justify the column labels. If None uses the option from the print configuration (controlled by set_option), 'right' out of the box. Valid values are
- left
- right
- center
- justify
- justify-all
- start
- end
- inherit
- match-parent
- initial
- unset.

max_rows : *int, optional*
Maximum number of rows to display in the console.

min_rows : *int, optional*
The number of rows to display in the console in a truncated repr (when number of rows is above *max_rows*).

max_cols : *int, optional*
Maximum number of columns to display in the console.

show_dimensions : *bool, default False*
Display DataFrame dimensions (number of rows by number of columns).

decimal : *str, default '.'*
Character recognized as decimal separator, e.g. ',' in Europe.
New in version 0.18.0.

line_width : *int, optional*
Width to wrap a line in characters.

Returns:

str (or unicode, depending on data and options)
String representation of the dataframe.

See also:

`to_html`
Convert DataFrame to HTML.

Examples

```
>>> d = {'col1': [1, 2, 3], 'col2': [4, 5, 6]}
>>> df = pd.DataFrame(d)
>>> print(df.to_string())
   col1  col2
0     1     4
1     2     5
2     3     6
```