Reference Sheet

Attribute

df.index

Pandas

In the entries below suppose df is a DataFrame, s is a Series and pd is the Pandas package

df.columns	Returns the column labels of the DataFrame.	
df.shape or s.shape Returns the shape of a DataFrame or Series in the form number of rows, number of columns		
df.size or s.size Returns the total number of entries in a DataFrame or Series (number of rows times number of columns)		
Function	Description	
df[col]	Returns the column labeled col from df as a Series.	
df[[col1, col2]]	Returns a DataFrame containing the columns labeled <code>col1</code> and <code>col2</code> .	
<pre>s.loc[rows] or df.loc[rows, cols]</pre>	Returns a Series/DataFrame with rows (and columns) selected by their index values.	
<pre>s.iloc[rows] or df.iloc[rows, cols]</pre>	Returns a Series/DataFrame with rows (and columns) selected by their positions.	
<pre>s.isnull() or df.isnull()</pre>	Returns boolean Series/DataFrame identifying missing values	
<pre>df.info()</pre>	displays name and type of each column, the number of non-null entries, and size of dataframe	
<pre>s.fillna(value) or df.fillna(value)</pre>	Returns a Series/DataFrame where missing values are replaced by value	
<pre>df.drop(labels, axis)</pre>	Returns a DataFrame without the rows or columns named labels along axis (either 0 or 1)	
<pre>df.rename(index=None, columns=None)</pre>	Returns a DataFrame with renamed columns from a dictionary index and/or columns	
<pre>df.sort_values(by, ascending=True)</pre>	Returns a DataFrame where rows are sorted by the values in columns by	
s.sort_values(ascending=True)	Returns a sorted Series.	
s.unique()	Returns a NumPy array of the unique values	
s.value_counts()	Returns the number of times each unique value appears in a Series	
<pre>pd.merge(left, right, how='inner',</pre>	Returns a DataFrame joining DataFrames left and right on the columns labeled a in the left database and 'b' in the right database; the join is of type inner	
<pre>df.pivot_table(index, columns, values=None, aggfunc='mean')</pre>	Returns a DataFrame pivot table where columns are unique values from columns (column name or list), and rows are unique values from index (column name or list); cells are collected values using aggfunc. If values is not provided, cells are collected for each remaining column with multi-level column indexing.	
<pre>df.set_index(col)</pre>	Returns a DataFrame that uses the values in the column labeled col as the row index.	
<pre>df.reset_index()</pre>	Returns a DataFrame that has row index 0, 1, etc., and adds the current index as a column.	

Groupby

In the groupby entries below, col can be a column label or a list of column labels:

s.str.len()

s.str.split(pat)

s.str.lower() or s.str.upper()

Description	Function
Returns a Series/DataFrame with the counts of non-missing values in each column	<pre>df.groupby(col).count()</pre>
Returns a Series counting the number of rows in each group, including missing values	<pre>df.groupby(col).size()</pre>
Returns a Series/DataFrame containing mean/min/max of each group for each column, excluding missing values	<pre>df.groupby(col).mean() or df.groupby(col).min() or df.groupby(col).max()</pre>
Returns a Series/DataFrame containing the first/last non-null entry of each group for each column	<pre>df.groupby(col).first() or df.groupby(col).last()</pre>
Returns a DataFrame with index col. Aggregates other columns using the given function f.	df.groupby(col).agg(f)

Description

Returns the index labels of the DataFrame.

Returns a Series containing length of each string

Returns a Series containing lowercase/uppercase version of each string

Split strings around given separator/delimiter pat . If not specified, split on whitespace

Function Description