Sample Data

>>> s = df['city']

>>> df

companycitystatezipa Widgets, Inc.Jay CityM046239b ABC, LLCWantonTX94562c ACMEBlandAL32329

Pandas Indexing Cheatsheet

https://wrighters.io by Matt Wright

Array Indexing Operator ([])

DataFrame

df['company'] Series, entire column

df[['company', 'city']] DataFrame, with one column

DataFrame, multiple columns

Series s[0] s['a']

scalar, 'Jay City', selecting by location scalar, 'Jay City', selecting by index label

loc Indexer - selecting by index label

DataFrame

df.loc['a']

df.loc[['a','c']]

df.loc[['a', 'city']

df.loc[['a', 'city']

df.loc[['a', 'ci], 'city']

df.loc[['a', 'c'], 'city']

df.loc[['a', 'c'], ['city', 'zip']]

Series, selecting by labels and column

DataFrame, selecting by labels and columns

Series

s.loc['a']

s.loc[['a','c']]

s.loc[['a'], 'c']]

s.loc[['a']]

Series, selecting by multiple labels

Series, selecting by multiple labels

Series, selecting by multiple labels

Series, selecting by a single label

iloc Indexer - selecting by row and column offset

DataFrame df.iloc[0] Series, first row by row location df.iloc[[0,2]] DataFrame, selecting by multiple rows df.iloc[0, 1] scalar, 'Jay City', selecting by row and column location df.iloc[[0,2], 1] Series, selecting by rows and a single column df.iloc[[0,2], [1,3]] DataFrame, selecting by rows and columns Series s.iloc[0] scalar, 'Jay City', selecting by offset s.iloc[-1] scalar, 'Bland', selecting by relative offset s.iloc[[0,2]] Series, selecting by multiple offsets s.iloc[[0]] Series, selecting by a single offset

Slicing

DataFrame slice by row location (selects rows a, b only) df[0:2] df.loc['a':'c'] slice by label (selects rows a, b, and c) slice by row location (selects rows, a,b only) df.iloc[0:2] slice both rows and columns (inclusive for both) df.loc['a':'c', 'city':'zip'] returns same as above df.iloc[0:3, 1:4] Series all ways to slice first two elements in Series s[:2], s[0:2], s[0:2:1], s[slice(0,2,1)] s['b':'c'] slice by label, both labels inclusive s.loc['b':'c'] same as above slice by location (non incluseive, returns labels b,c like above) s.iloc[1:3]

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