

Data Wrangling

with pandas Cheat Sheet
<http://pandas.pydata.org>

[Pandas API Reference](#) [Pandas User Guide](#)

Creating DataFrames

	a	b	c
0	4	5	6
1	7	8	9
2	10	11	12

```
df = pd.DataFrame(
    {"a": [4, 5, 6],
     "b": [7, 8, 9],
     "c": [10, 11, 12]},
    index=[1, 2, 3])
```

Specify values for each column.

```
df = pd.DataFrame(
    [[4, 7, 10],
     [5, 8, 11],
     [6, 9, 12]],
    index=[1, 2, 3],
    columns=['a', 'b', 'c'])
```

Specify values for each row.

	a	b	c
0	4	5	6
1	7	8	9
2	10	11	12

```
df = pd.DataFrame(
    {"a": [4, 5, 6],
     "b": [7, 8, 9],
     "c": [10, 11, 12]},
    index = pd.MultiIndex.from_tuples(
        [(0, 1), (0, 2),
         (1, 1), (1, 2)]),
    columns=['a', 'b', 'c'])
```

Create DataFrame with a MultiIndex

Method Chaining

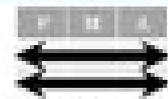
Most pandas methods return a DataFrame so that another pandas method can be applied to the result. This improves readability of code.

```
df = (pd.read_csv('data.csv')
     .rename(columns={
         'variable': 'var',
         'value': 'val'})
     .query('val >= 200'))
```

Tidy Data - A foundation for wrangling in pandas



Each variable is saved in its own column



Each observation is saved in its own row

Tidy data complements pandas's **vectorized operations**, pandas will automatically preserve observations as you manipulate variables. No other format works as intuitively with pandas.



M * A = P

Reshaping Data - Change layout, sorting, reindexing, renaming



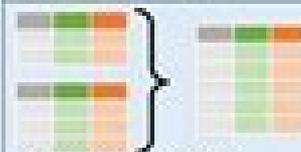
```
pd.melt(df)
```

Gather columns into rows.



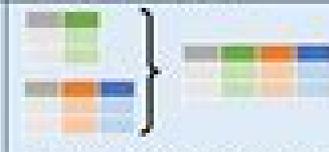
```
df.pivot(columns='var', values='val')
```

Spread rows into columns.



```
pd.concat([df1, df2])
```

Append rows of DataFrames.



```
pd.concat([df1, df2], axis=1)
```

Append columns of DataFrames.

```
df.sort_values('age')
df.sort_values('age', ascending=False)
df.rename(columns={'y': 'year'})
df.sort_index()
df.reset_index()
df.drop(columns=['length', 'weight'])
```

Subset Observations - rows



```
df[df.Length > 7]
df.drop_duplicates()
df.sample(frac=0.5)
df.sample(n=50)
df.nlargest(n, 'value')
df.nsmallest(n, 'value')
df.head(n)
df.tail(n)
```

Subset Variables - columns



```
df[['width', 'length', 'species']]
df['width'] or df.width
df.filter(regex='regex')
```

Using query

```
query() allows Boolean expressions for filtering rows.
df.query('length > 7')
df.query('length > 7 and width < 8')
df.query('Name.str.startswith("abc")', engine='python')
```

Subsets - rows and columns

```
Use df.loc[] and df.iloc[] to select only rows, only columns or both.
Use df.at[] and df.iat[] to access a single value by row and column.
df.iloc[10:20]
df.iat[:, [1, 2, 3]]
df.loc[:, 'x2':'x4']
df.loc[df['a'] > 10, ['a', 'c']]
df.iat[1, 2]
df.at[4, 'a']
```

	Logic in Python (and pandas)	SQL
1	Less than	<
2	Greater than	>
3	Equal	=
4	Less than or equal	<=
5	Greater than or equal	>=

Regex (Regular Expressions) Examples	
'^.'	Matches strings containing a period
'length\$'	Matches strings ending with word 'length'
'^total'	Matches strings beginning with the word 'total'
'^([0-9])\$'	Matches strings beginning with '0' and ending with 0,1,2,3,4,5
'^(?!Species)\$'	Matches strings except the string 'Species'

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