

### For sklearn

```
reg = RandomForestRegressor()
X = df_rnd[features].as_matrix()
y = df_rnd[recovery].values
reg.fit(X, y)
```

### Deletes

```
DEL df['col']

df = df.drop('col', axis=1)
```

### Hotchpotch

pd.cut          numeric to category

pd.groupby

index

df.pivot

df.get\_dummy

apply cols rows..

<https://pandas.pydata.org/pandas-docs/stable/reshaping.html>

### Subsetting

```
surveys_df[(surveys_df.year >= 1980) &
(surveys_df.year <= 1985)]

surveys_df[pd.isnull(surveys_df).any(axis=1)]

surveys_df[surveys_df['species_id'].isin(['listGoes Here'])]
```

### Indexing and Selecting Data

#### Series and DataFrame

Python and NumPy indexing operators [] and attribute operator . provide quick and easy access to pandas data structures

.loc label or boolean array

.iloc integer position or boolean array

.loc, .iloc, and also [] indexing can accept a callable as indexer

Series s.loc[indexer]

DataFrame  
df.loc[row\_indexer,column\_indexer]

X\_neg[:, df\_rnd.columns.get\_loc('medication')] = 0

.copy()

.drop('recovery', axis=1)

.apply(lambda x: other\_defined\_fun(\*x), axis=1)

Columns: df.iloc[:,0:2]

Rows: df.iloc[5:100,:]

### Index

Index          The base pandas Index type  
  
Immutable ndarray. Ordered, sliceable set.

MultIndex      A multi-level, or hierarchical, index object

~ Array of tuples where each tuple is unique

<https://pandas.pydata.org/pandas-docs/stable/advanced.html>

### Slice Notation

lst[i:j]          i to j-1

lst[:i]          i to end

lst[:j]          start to j-1

lst[:]          All

lst[i:j:step]      i to j-1 by step

df[i:] | df.iloc[i:,:]      Row i to j-1

df.iloc[0:3, 1:4]      iloc[row slicing, col slicing]

df.iloc[row, col]      Specific element

df.loc[lbl1:lbl2,:]      Also with labels



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Not published yet.  
Last updated 2nd May, 2018.  
Page 1 of 1.

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