

# Data Wrangling

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

Pandas API Reference Pandas User Guide

## Creating DataFrames

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

```
df = pd.DataFrame(
    {"a": [4, 5, 4],
     "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],
     [4, 9, 12]],
    index=[1, 2, 3],
    columns=['a', 'b', 'c'])
```

Specify values for each row.

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

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

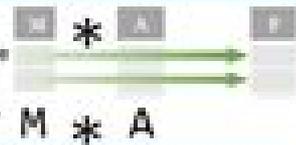


Each variable is saved in its own column



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.



## Reshaping Data - Change layout, sorting, reindexing, renaming



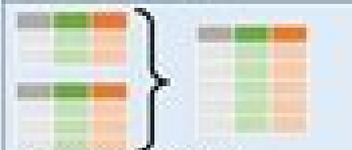
```
pd.melt(df)
```

Gather columns into rows.



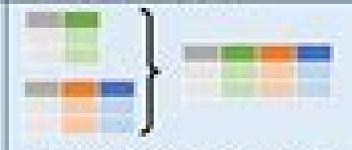
```
df.pivot(columns='var', values='val')
```

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=5)
df.nlargest(n, 'value')
df.sorting(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)	Notation
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'

# Gradpoint Cheat Sheet

**Libby Hikind**



## **Gradpoint Cheat Sheet:**

The book delves into Gradpoint Cheat Sheet. Gradpoint Cheat Sheet is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gradpoint Cheat Sheet, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Gradpoint Cheat Sheet
- Chapter 2: Essential Elements of Gradpoint Cheat Sheet
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- Chapter 4: Gradpoint Cheat Sheet in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Gradpoint Cheat Sheet. The first chapter will explore what Gradpoint Cheat Sheet is, why Gradpoint Cheat Sheet is vital, and how to effectively learn about Gradpoint Cheat Sheet.
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