

# 03-Missing-Data

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## 1 Missing Data

Let's show a few convenient methods to deal with Missing Data in pandas:

```
[1]: import numpy as np
import pandas as pd
```

```
[9]: df = pd.DataFrame({'A': [1,2,np.nan],
                        'B': [5,np.nan,np.nan],
                        'C': [1,2,3]})
```

```
[10]: df
```

```
[10]:
```

	A	B	C
0	1.0	5.0	1
1	2.0	NaN	2
2	NaN	NaN	3

```
[12]: df.dropna()
```

```
[12]:
```

	A	B	C
0	1.0	5.0	1

```
[13]: df.dropna(axis=1)
```

```
[13]:
```

	C
0	1
1	2
2	3

```
[14]: df.dropna(thresh=2)
```

```
[14]:      A      B  C
      0  1.0  5.0  1
      1  2.0   NaN  2
```

```
[15]: df.fillna(value='FILL VALUE')
```

```
[15]:      A      B  C
      0      1      5  1
      1      2  FILL VALUE  2
      2  FILL VALUE  FILL VALUE  3
```

```
[17]: df['A'].fillna(value=df['A'].mean())
```

```
[17]: 0      1.0
      1      2.0
      2      1.5
      Name: A, dtype: float64
```

## 2 Great Job!