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In [4]:

```
import pandas as pd
import numpy as np

index = pd.date_range("1/1/2000", periods=8)

s = pd.Series(np.random.randn(5), index=["a", "b", "c", "d", "e"])

df = pd.DataFrame(np.random.randn(8, 3), index=index, columns=["A", "B", "C"])
```

In [6]:

df

Out[6]:

	A	B	C
2000-01-01	1.349421	-1.303143	0.395321
2000-01-02	-0.458118	-1.700353	1.394553
2000-01-03	0.523607	0.785910	-0.581159
2000-01-04	-0.863456	-0.907760	-1.281983
2000-01-05	-1.076026	-0.929223	-0.066768
2000-01-06	0.425366	-0.163716	-0.195679
2000-01-07	0.972284	-1.449332	1.992672
2000-01-08	1.393174	0.488836	0.265919

In [7]:

df[:2]

Out[7]:

	A	B	C
2000-01-01	1.349421	-1.303143	0.395321
2000-01-02	-0.458118	-1.700353	1.394553

In [8]:



```
s.array
```

Out[8]:

```
<PandasArray>  
[-0.04214126287548113,    0.1151792849811689, -0.32841044852529316,  
 -0.946659748890853,   -1.9327119830297166]  
Length: 5, dtype: float64
```

In [9]:



```
s.to_numpy()
```

Out[9]:

```
array([-0.04214126,    0.11517928, -0.32841045, -0.94665975, -1.93271198])
```

In [11]:



```
long_series = pd.Series(np.random.randn(1000))  
  
long_series.tail(3)
```

Out[11]:

```
997    -0.651111  
998     2.245173  
999    -0.654610  
dtype: float64
```

In [12]:



```
long_series.head()
```

Out[12]:

```
0     0.439829  
1    -1.529104  
2     2.376491  
3     0.046988  
4    -0.698091  
dtype: float64
```

In []:

