

# analysis

December 9, 2017

```
In [52]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import warnings
warnings.filterwarnings("ignore")
pd.set_option('display.mpl_style', 'default')
```

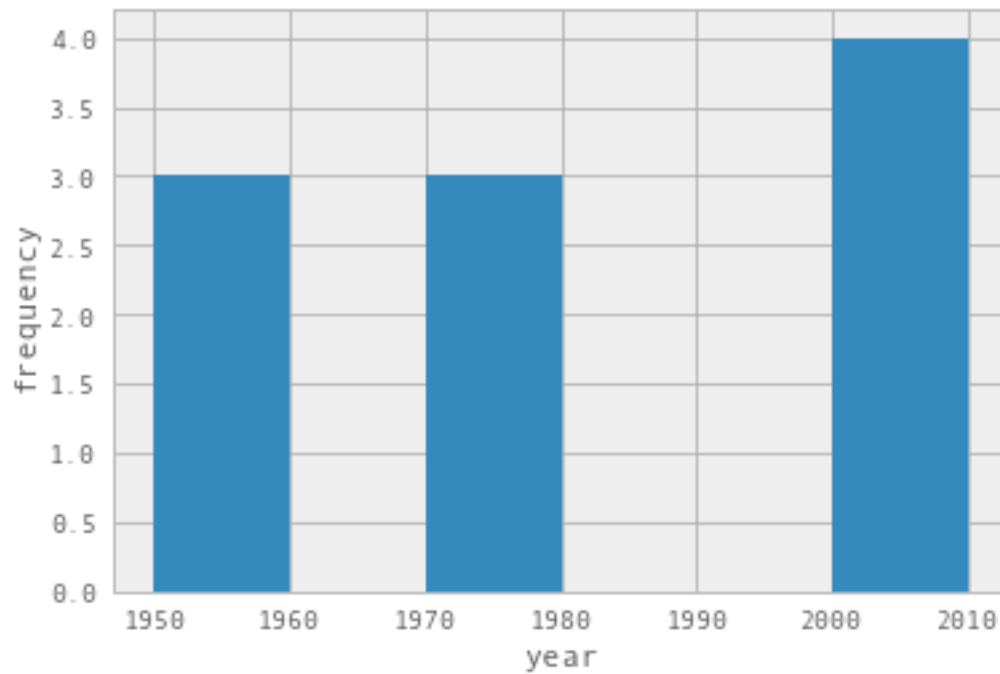
```
In [53]: info = pd.read_csv('info.csv')
```

```
In [54]: print(info)
```

	book	year	author	nationality	sex
0	Hotel World	2001	Ali Smith	Scotland	Female
1	Things Fall Apart	1958	Chinua Achebe	Nigeria	Male
2	Dispatches	1977	Michael Herr	USA	Male
3	Siddhartha	1951	Hermann Hesse	Germany	Male
4	What Ends	2014	Andrew Ladd	Scotland	Male
5	Our Friends from Frolix 8	1970	Philip K. Dick	USA	Male
6	The Living Mountain	1977	Nan Shephard	Scotland	Female
7	Wise Blood	1952	Flannery O'Connor	USA	Female
8	The Vegetarian	2007	Han Kang	South Korea	Female
9	A Visit from the Goon Squad	2010	Jennifer Egan	USA	Female

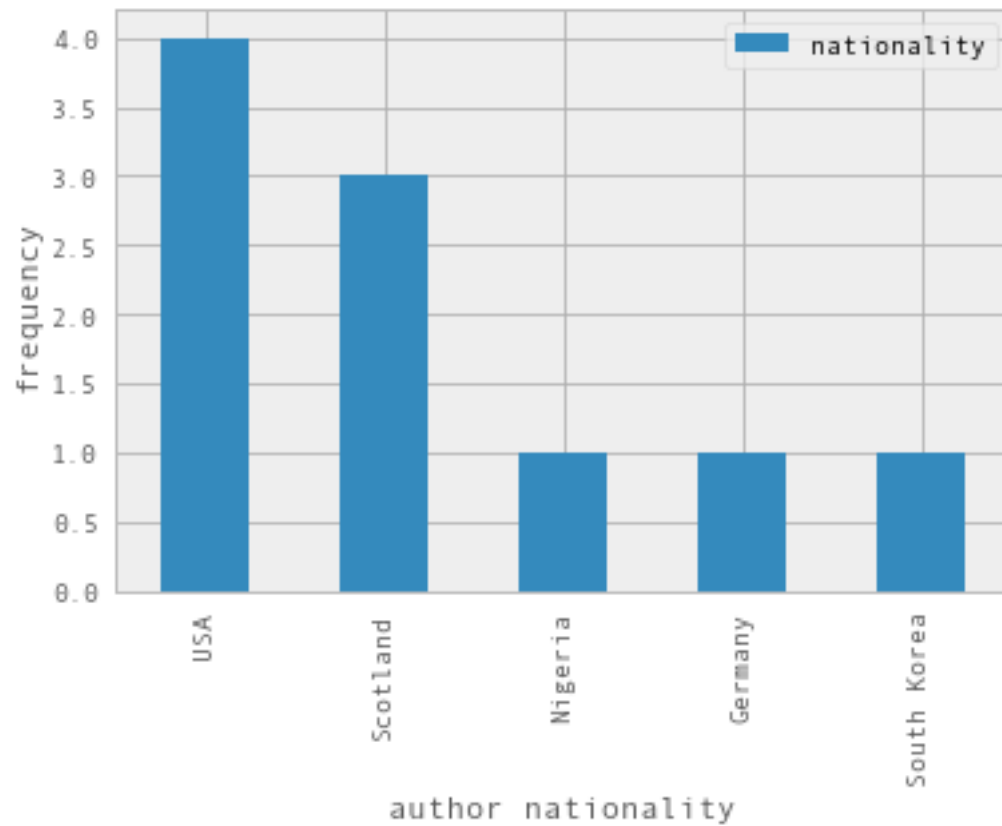
```
In [55]: (np.floor(info['year']/10)*10).hist(bins=6)
plt.xlabel('year')
plt.ylabel('frequency')
```

```
Out[55]: <matplotlib.text.Text at 0x111ee1358>
```



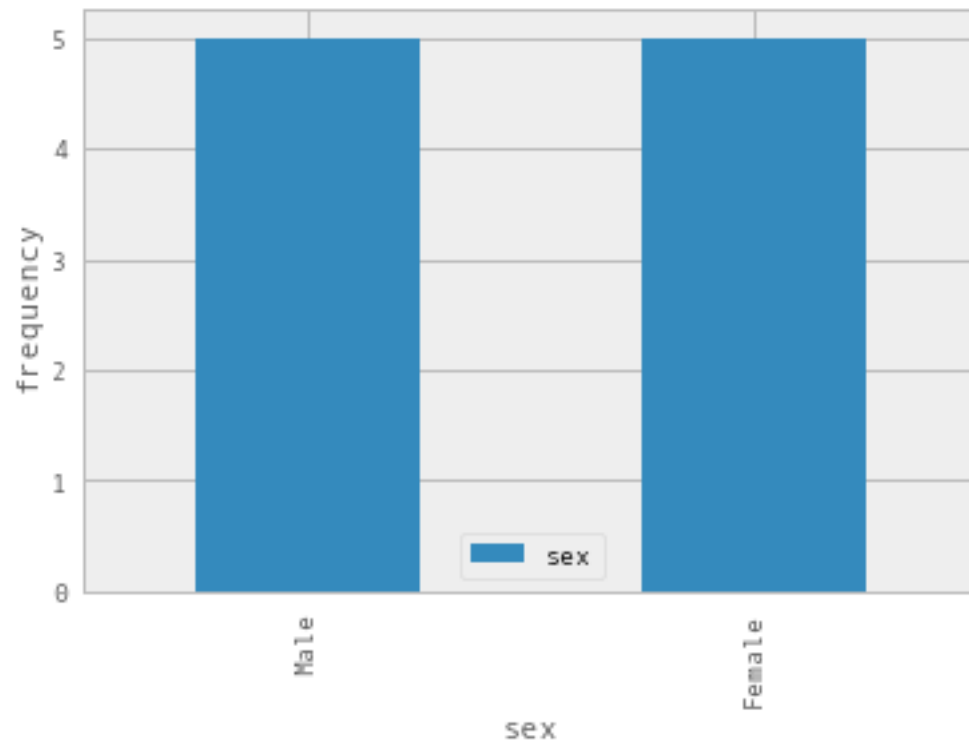
```
In [56]: a = pd.DataFrame(info['nationality'])  
a.apply(pd.value_counts).plot(kind='bar')  
plt.xlabel('author nationality')  
plt.ylabel('frequency')
```

```
Out[56]: <matplotlib.text.Text at 0x111f30550>
```



```
In [57]: a = pd.DataFrame(info['sex'])  
a.apply(pd.value_counts).plot(kind='bar')  
plt.xlabel('sex')  
plt.ylabel('frequency')
```

```
Out[57]: <matplotlib.text.Text at 0x11260b208>
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In [ ]:

In [ ]: