Gas Prices

In [7]:
```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
import seaborn as sns
%matplotlib inline
```

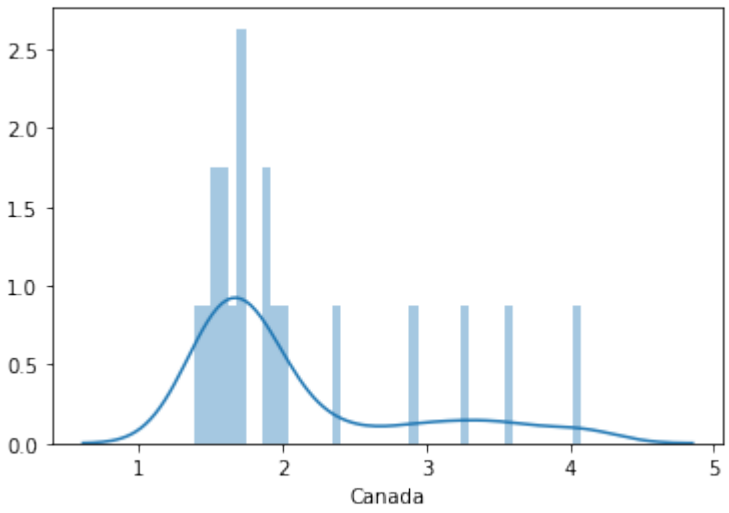
In [10]:
```
gas = pd.read_csv('Python\Pandas\gas_prices.csv')
gas.head()
```

Out[10]:

	Year	Australia	Canada	France	Germany	Italy	Japan	Mexico	South Korea	UK	USA
0	1990	NaN	1.87	3.63	2.65	4.59	3.16	1.00	2.05	2.82	1.16
1	1991	1.96	1.92	3.45	2.90	4.50	3.46	1.30	2.49	3.01	1.14
2	1992	1.89	1.73	3.56	3.27	4.53	3.58	1.50	2.65	3.06	1.13
3	1993	1.73	1.57	3.41	3.07	3.68	4.16	1.56	2.88	2.84	1.11
4	1994	1.84	1.45	3.59	3.52	3.70	4.36	1.48	2.87	2.99	1.11

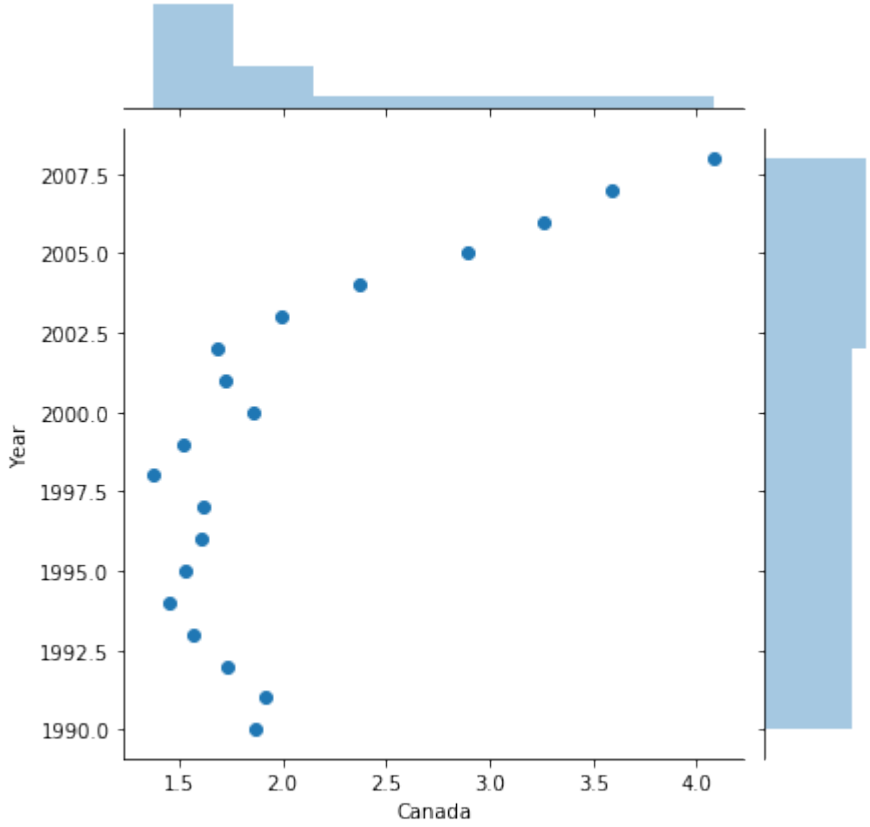
In [9]:
```
sns.distplot(gas["Canada"], bins=45)
```

Out[9]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x2016708a400>
```



In [4]:
```
sns.jointplot(x=gas["Canada"], y=gas["Year"], data=gas, kind='scatter')
```

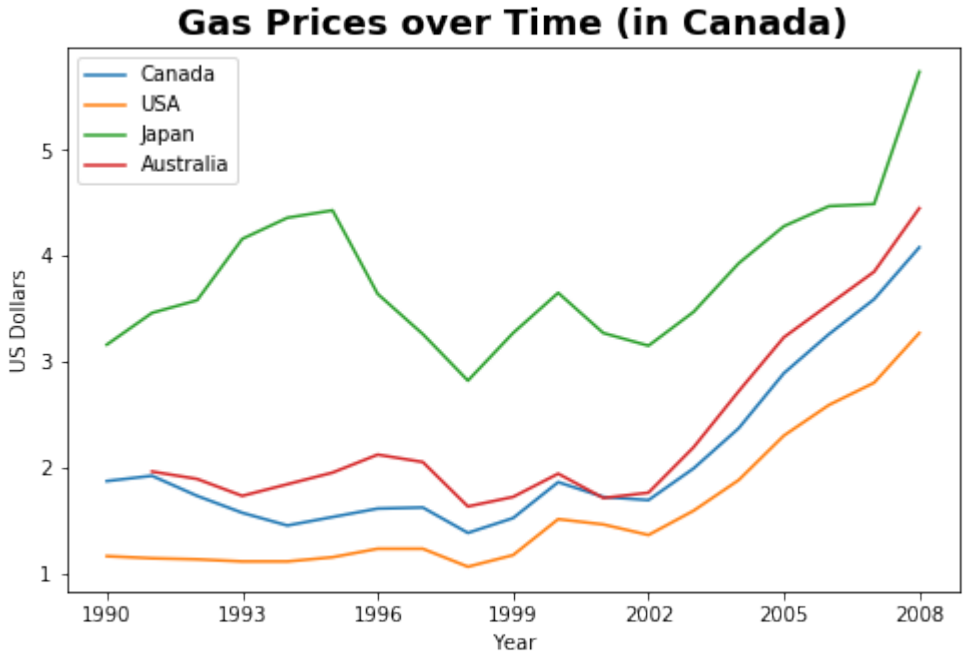
Out[4]:
```
<seaborn.axisgrid.JointGrid at 0x20166b54e80>
```



In [5]:
```
plt.figure(figsize=(8,5))

plt.title('Gas Prices over Time (in Canada)', fontdict={'fontweight':'bo
ld', 'fontsize': 18})

plt.plot(gas.Year, gas.Canada, label='Canada')
plt.plot(gas.Year, gas.USA, label='USA')
plt.plot(gas.Year, gas.Japan, label='Japan')
plt.plot(gas.Year, gas.Australia, label='Australia')

#Another way to plot many values
#countries_to_look_at = ['Australia', 'USA', 'Canada', 'South Korea']
#for country in gas:
 #       if country in countries_to_look_at:
  #          plt.plot(gas.Year, gas[country], marker='')

print(gas.Year[::3])

plt.xticks(gas.Year[::3])

plt.xlabel('Year')
plt.ylabel('US Dollars')

plt.legend()

plt.savefig('Python\Pandas\Gas_price_figure.png', dpi=300)

plt.show()
```

```
0     1990
3     1993
6     1996
9     1999
12    2002
15    2005
```

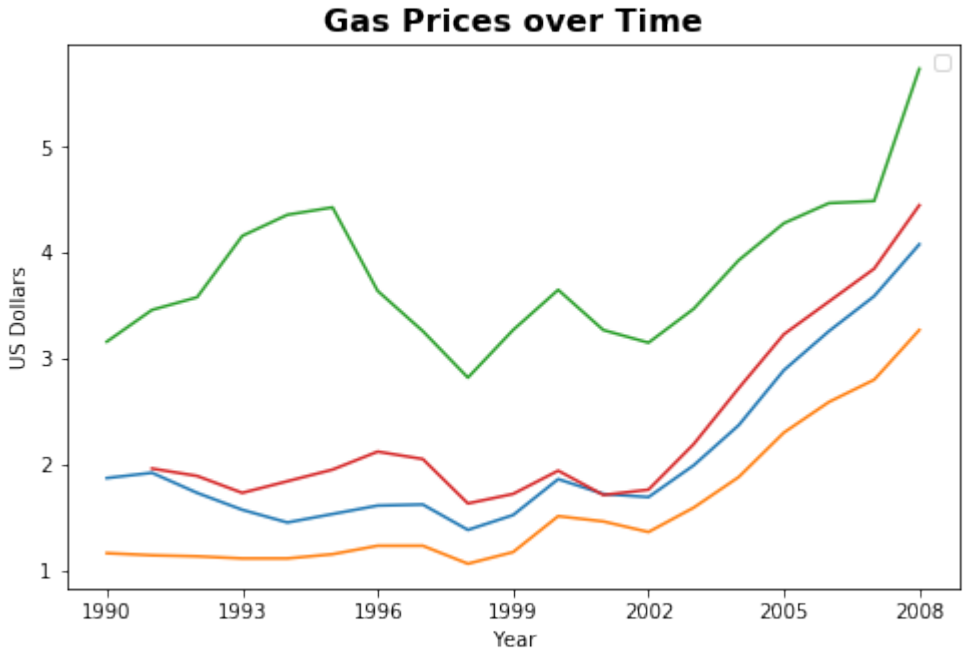
```
18    2008
Name: Year, dtype: int64
```



In [6]:

```
No handles with labels found to put in legend.
```

```
0     1990
3     1993
6     1996
9     1999
12    2002
15    2005
18    2008
Name: Year, dtype: int64
```



In [ ]:

In [ ]: