Graph Plot

In [1]:

```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
```

In [2]:

```
gas = pd.read_csv ('gas_prices.csv')
```

In [3]:

```
gas
```

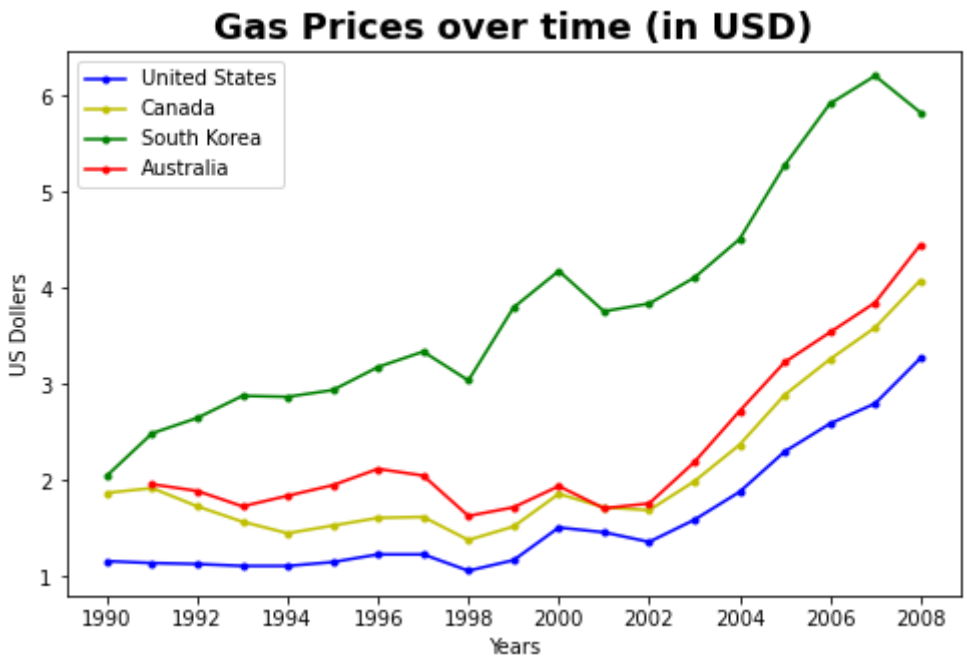
Out[3]:

	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
5	1995	1.95	1.53	4.26	3.96	4.00	4.43	1.11	2.94	3.21	1.15
6	1996	2.12	1.61	4.41	3.94	4.39	3.64	1.25	3.18	3.34	1.23
7	1997	2.05	1.62	4.00	3.53	4.07	3.26	1.47	3.34	3.83	1.23
8	1998	1.63	1.38	3.87	3.34	3.84	2.82	1.49	3.04	4.06	1.06
9	1999	1.72	1.52	3.85	3.42	3.87	3.27	1.79	3.80	4.29	1.17
10	2000	1.94	1.86	3.80	3.45	3.77	3.65	2.01	4.18	4.58	1.51
11	2001	1.71	1.72	3.51	3.40	3.57	3.27	2.20	3.76	4.13	1.46
12	2002	1.76	1.69	3.62	3.67	3.74	3.15	2.24	3.84	4.16	1.36
13	2003	2.19	1.99	4.35	4.59	4.53	3.47	2.04	4.11	4.70	1.59
14	2004	2.72	2.37	4.99	5.24	5.29	3.93	2.03	4.51	5.56	1.88
15	2005	3.23	2.89	5.46	5.66	5.74	4.28	2.22	5.28	5.97	2.30
16	2006	3.54	3.26	5.88	6.03	6.10	4.47	2.31	5.92	6.36	2.59
17	2007	3.85	3.59	6.60	6.88	6.73	4.49	2.40	6.21	7.13	2.80
18	2008	4.45	4.08	7.51	7.75	7.63	5.74	2.45	5.83	7.42	3.27

In [66]:

```
gas = pd.read_csv ('gas_prices.csv')
plt.figure (figsize = (8,5))

plt.title('Gas Prices over time (in USD)', fontdict= {'fontweight': 'bold', 'fontsize':18})

plt.plot(gas.Year, gas.USA,'b.-', label =('United States') )
plt.plot(gas.Year, gas.Canada, 'y.-', label=('Canada'))
plt.plot(gas.Year, gas['South Korea'],'g.-', label=('South Korea'))
plt.plot(gas.Year, gas.Australia, 'r.-', label= ('Australia'))

#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[::2])
plt.xticks (gas.Year [::2])

plt.xlabel('Years')
plt.ylabel('US Dollers')

plt.legend ()
plt.savefig('Gas_price_fig.png', dpi=300)
plt.show()
```

```
0     1990
2     1992
4     1994
6     1996
8     1998
10    2000
12    2002
14    2004
16    2006
18    2008
Name: Year, dtype: int64
```


Gas Prices over time (in USD)
United States
Canada
South Korea
Australia
US Dollers
Years
1
2
3
4
5
6
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008

In [ ]: