```
import pandas as pd
import pandas_datareader.data as web
all_data = {ticker: web.get_data_yahoo(ticker)
           for ticker in ['SPY', 'QQQ', 'GLD', 'XOP']}
price = pd.DataFrame({ticker: data['Adj Close']
                     for ticker, data in all_data.items()})
volume = pd.DataFrame({ticker: data['Volume']
                      for ticker, data in all_data.items()})
returns = price.pct_change()
returns.tail()
returns['GLD'].corr(returns['XOP']) #allign index values for correlation
returns.GLD.corr(returns.XOP) #concise syntax of correlation
returns['GLD'].cov(returns['XOP']) #allign index values for covariance
returns.GLD.cov(returns.XOP) #concise syntax of covariance
returns.corr()
                  #table of correlations
returns.cov() #table of covariance
returns.corrwith(returns.XOP) #Correlations with given variable
returns.corrwith(volume) #Percent changes with volume
```