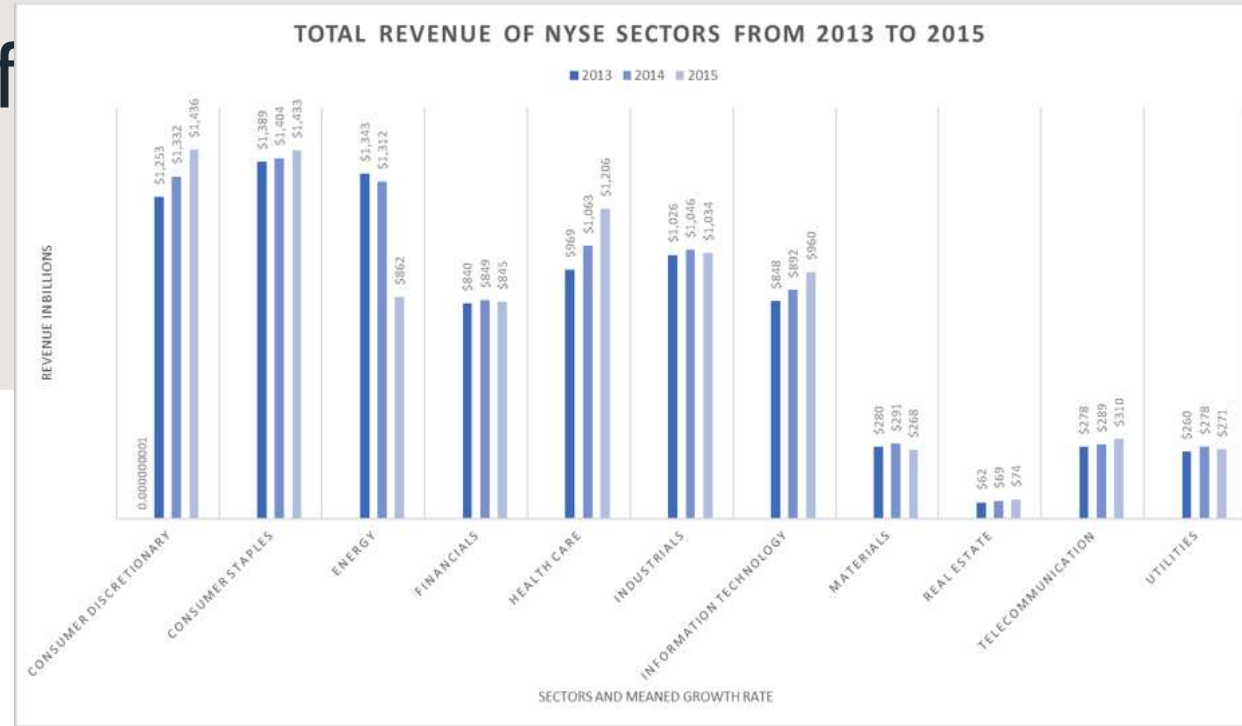




Business Analytics Project

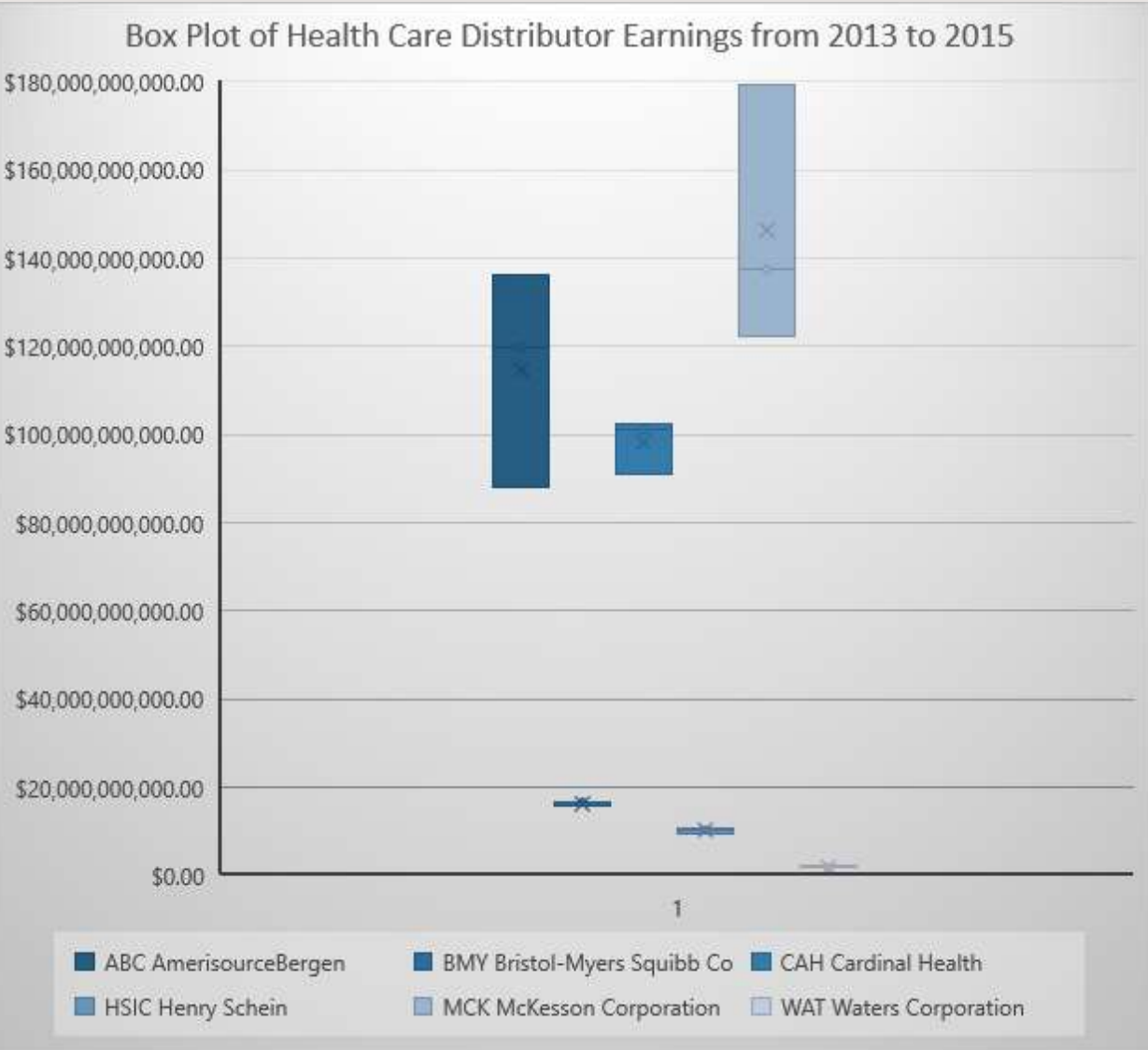
What is the mean growth rate of all NYSE Sectors from 2013 to 2015?

- From -2% in 2014 to -52% in 2015, the energy market has experienced a significant drop. Due to the market's decline, it has the highest deviation of 269 billion and the widest range of 481 billion. From 2014 to 2015, its average annual growth rate was -27 percent.
- Health Care, Real Estate, Consumer Discretionary, IT, and Telecommunications all performed well in the industry, with 10%, 9%, 7%, and 5%, respectively. These sectors are a good place to start diversifying your portfolio if you don't have a lot of money to spend.
- The Financials and Real Estate sectors have the lowest standard of deviations at 4.8 billion and 6.2 billion respectively, this suggests that their annual earnings are not that far from their average revenues and thus stable markets.



Sector Wise Growth Rates				
Sectors	2014	2015	Variance	Mean
Consumer Discretionary	6%	7%	1%	7%
Consumer Staples	1%	2%	1%	2%
Energy	-2%	-52%	-50%	-27%
Financials	1%	-1%	-2%	0%
Health Care	9%	12%	3%	10%
Industrials	2%	-1%	-3%	0%
IT	5%	7%	2%	6%
Materials	4%	-8%	-12%	-2%
Real Estate	10%	8%	-2%	9%
Telecommunication	4%	7%	3%	5%
Utilities	7%	-3%	-9%	2%

How spread out are the earnings of Health Care Distributors from 2013 to 2015?



Ticker Symbol	Growth Rates			
	2014	2015	Variance	Mean
ABC	26%	12%	-14%	19%
BMJ	-3%	4%	7%	0%
CAH	-11%	11%	22%	0%
HSIC	8%	2%	-5%	5%
MCK	11%	23%	12%	17%
WAT	4%	3%	-2%	3%

- We can easily estimate that there is at least 70 billion dollars in revenue that divides half of the companies listed in this sub-industry based on this box plot of Health Care Distributors earnings from 2013 to 2015.
- MCK McKesson had the largest turnover in the plot in 2015, with 179 billion dollars. Because of its market supremacy, it has a maenad growth rate of 17% and the highest deviation at \$29 billion.
- AMC AmerisourceBergen and CAH Cardinal Health are the other two that are much separated from the box plot. Their lowest revenue are 87 billion and 91 billion respectively and does not even equal the summed three-year revenues of BMJ Bristol, HSIC Henry Schein and WAT Waters Corp.
- The Health Care Distributors had the largest sales range in 2015, with 177 billion dollars. When McKesson's revenue of 179 billion is subtracted from Water Corporation's revenue of 2 billion, the result is this.