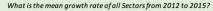
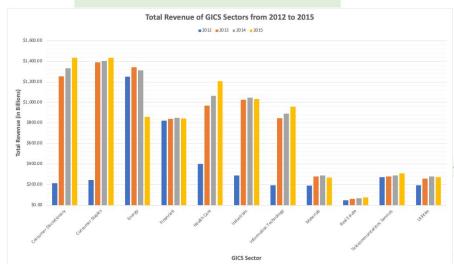
What is the growth rate of all Sectors from 2012 to 2015?





	Sectors' Yearly Revenues from 2012 to 2015									
GICS Sectors		2012	2013		2014			2015		Grand Total
Consumer Discretionary	\$	215,328,170,000	\$	1,253,135,104,000	\$	1,332,319,553,000	\$	1,435,979,984,000	\$	4,236,762,811,000
Consumer Staples	\$	245,019,154,000	\$	1,389,203,539,000	\$	1,403,938,460,000	\$	1,433,176,833,000	\$	4,471,337,986,000
Energy	\$	1,251,426,753,000	\$	1,343,144,975,000	\$	1,311,915,971,000	\$	861,802,498,000	\$	4,768,290,197,000
Financials	\$	824,461,954,000	\$	839,516,945,000	\$	849,113,196,000	\$	844,713,181,000	\$	3,357,805,276,000
Health Care	\$	400,964,085,000	\$	968,538,424,000	\$	1,063,334,023,000	\$	1,205,934,822,000	\$	3,638,771,354,000
Industrials	\$	290,135,334,000	\$	1,026,331,766,000	\$	1,046,245,863,000	\$	1,033,831,829,000	\$	3,396,544,792,000
Information Technology	\$	192,984,527,000	\$	847,932,286,000	\$	892,347,814,000	\$	960,112,380,000	\$	2,893,377,007,000
Materials	\$	189,359,346,000	\$	280,102,204,000	\$	290,520,675,000	\$	267,845,555,000	\$	1,027,827,780,000
Real Estate	\$	47,545,345,000	\$	61,899,503,000	\$	68,647,454,000	\$	74,335,202,000	\$	252,427,504,000
Telecommunications Serv	\$	273,043,853,000	\$	278,472,000,000	\$	289,106,000,000	\$	310,126,000,000	\$	1,150,747,853,000
Utilities	\$	192,771,719,000	\$	259,755,001,000	\$	278,082,544,000	\$	270,915,907,000	\$	1,001,525,171,000
Grand Total	\$	4,123,040,240,000	\$	8,548,031,747,000	\$	8,825,571,553,000	\$	8,698,774,191,000	\$	30,195,417,731,000

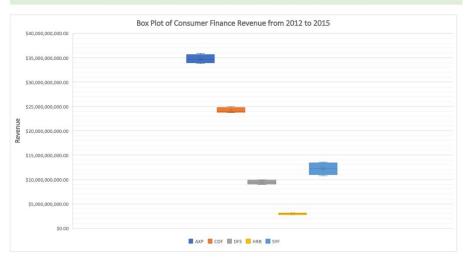
- Compared to 2014, the Energy sector has experienced a 52% decline in 2015. As a result of the market fall, it has experienced a -16% decline in growth
- The data shows that consumer discretionary (32%), IT (30%), consumer staples (28%), health care (26%), and industrials (24%), were the top five industries in growth on the market from 2012 to 2015. When it comes to diversifying a portfolio, these sectors are a good starting point for those without a lot of capital to invest.
- The Consumer Discretionary and Consumer Staples sectors rocketed from 2012 to 2013 with growth rates 82.82% and 82.36% respectively. Their revenues remained increasing steadily afterwards. That's mean consumer spending was increasing and the economic was growing from 2012 to 2015

	Growth Rates									
Sectors	2013	2014	2015	Variance	Mean					
Consumer Discretionary	82.82%	5.94%	7.22%	19%	32%					
Consumer Staples	82.36%	1.05%	2.04%	22%	28%					
Energy	6.83%	-2.38%	-52.23%	10%	-16%					
Financials	1.79%	1.13%	-0.52%	0%	1%					
Health Care	58.60%	8.91%	11.82%	8%	26%					
Industrials	71.73%	1.90%	-1.20%	17%	24%					
IT	77.24%	4.98%	7.06%	17%	30%					
Materials	32.40%	3.59%	-8.47%	4%	9%					
Real Estate	23.19%	9.83%	7.65%	1%	14%					
Telecommunication	1.95%	3.68%	6.78%	0%	4%					
Utilities	25.79%	6.59%	-2.65%	2%	10%					

Summary Statistics									
	Mean		Median		Range	Standard Deviation			
\$	1,059,190,702,750	\$	1,292,727,328,500	\$	1,220,651,814,000	567,535,002,227			
\$	1,117,834,496,500	\$	1,396,570,999,500	\$	1,188,157,679,000	582,163,793,232			
\$	1,192,072,549,250	\$	1,281,671,362,000	\$	481,342,477,000	223,447,646,228			
\$	839,451,319,000	\$	842,115,063,000	\$	24,651,242,000	10,735,058,279			
\$	909,692,838,500	\$	1,015,936,223,500	\$	804,970,737,000	352,908,238,278			
\$	849,136,198,000	\$	1,030,081,797,500	\$	756,110,529,000	372,757,710,145			
\$	723,344,251,750	\$	870,140,050,000	\$	767,127,853,000	356,569,285,704			
\$	256,956,945,000	\$	273,973,879,500	\$	101,161,329,000	46,008,058,004			
\$	63,106,876,000	\$	65,273,478,500	\$	26,789,857,000	11,552,666,445			
\$	287,686,963,250	\$	283,789,000,000	\$	37,082,147,000	16,379,461,337			
\$	250,381,292,750	\$	265,335,454,000	\$	85,310,825,000	39,139,745,772			

How spread out the earnings of Consumer Finance from 2012 to 2015





		Consumer Finance Earni	ngs from 2012 to 2015		
Ticker Symbol	2012	2015 Grand Total			
AXP	\$ 33,781,000,000.00	\$ 34,828,000,000.00	\$ 35,895,000,000.00	\$ 34,441,000,000.00 \$ 138,945,000	,000.00
COF	\$ 23,771,000,000.00	\$ 24,176,000,000.00	\$ 23,869,000,000.00 \$	\$ 25,038,000,000.00 \$ 96,854,000	,000.00
DFS	\$ 8,984,000,000.00	\$ 9,370,000,000.00	\$ 9,611,000,000.00 \$	\$ 10,002,000,000.00 \$ 37,967,000	,000.00
HRB		\$ 2,807,114,000.00	\$ 3,024,295,000.00 \$	3,078,658,000.00 \$ 8,910,067	,000.00
SYF	\$ 10,793,000,000.00	\$ 11,813,000,000.00	\$ 12,727,000,000.00 \$	13,620,000,000.00 \$ 48,953,000	,000.00
Grand Total	\$ 77,329,000,000.00	\$ 82,994,114,000.00	\$ 85,126,295,000.00 \$	\$ 86,179,658,000.00 \$ 331,629,067	,000.00

- From this box plot of earnings of Consumer Finance from 2012 to 2015, we can
 quickly asses that there is at least 10 billion dollars of revenue that separates half
 of the companies that is listed in this sub-industry.
- AXP had the highest revenue of 34 billion in 2015 and is the highest in the plot. It
 has a mean grouth rate of 3% with 885 million standard deviation. However, AXP
 has the lowest mean growth rate of 0.6% among the five companies in same
 industry, some of the market share may be obtained by other companies instead.
- SYF has the highest range of revenue in 2015 with 2.8 billion and with highest standard deviation with 1.2 billion. This was due to its high growth rate at around 7.5% in average. According to this trend SYF may surpass AXP in the future.
- All five corporates' mean are equal to their median, which means there's no skewness shown in data.

Growth Rates								
Ticker Symbol	2013	2015 Varia	ance Mear	1				
AXP	3%	3%	-4%	0.17%	0.6%			
COF	2%	-1%	5%	0.09%	1.7%			
DFS	4%	3%	4%	0.01%	3.5%			
HRB		7%	2%	0.15%	4.5%			
SYF	9%	7%	7%	0.01%	7.5%			

	Summary Statistics of each Comsumer Finance Corporation from 2012 to 2015								
Mean		Median		Range		Stan	dard Deviation		
\$	34,736,250,000	\$	34,634,500,000	\$	2,114,000,000	\$	885,210,851		
\$	24,213,500,000	\$	24,022,500,000	\$	1,267,000,000	\$	576,105,604		
\$	9,491,750,000	\$	9,490,500,000	\$	1,018,000,000	\$	427,086,545		
\$	2,970,022,333	\$	3,024,295,000	\$	271,544,000	\$	143,677,339		
\$	12,238,250,000	\$	12,270,000,000	\$	2,827,000,000	\$	1,213,492,858		

P&L Statement

Ticker Symbol	ABT	▼					
		_					
P&L Statement							
				Histo	rica	Í	
			Year 1	Year 2		Year 3	Year 4
Total Revenue		\$	19,050,000,000.00	\$ 19,657,000,000.00	\$	20,247,000,000.00	\$ 20,405,000,000.00
Cost of Goods Sold		\$	8,899,000,000.00	\$ 9,193,000,000.00	\$	9,218,000,000.00	\$ 8,747,000,000.00
Gross Profit		\$	10,151,000,000.00	\$ 10,464,000,000.00	\$	11,029,000,000.00	\$ 11,658,000,000.00
Gross Margin			0.53	0.53		0.54	0.57
Research & Development		\$	1,461,000,000.00	\$ 1,371,000,000.00	\$	1,345,000,000.00	\$ 1,405,000,000.00
Sales, General and Admin		\$	6,735,000,000.00	\$ 6,372,000,000.00	\$	6,530,000,000.00	\$ 6,785,000,000.00
Other Operating Items			595000000	588000000		555000000	601000000
Total Operating Expenses		\$	8,791,000,000.00	\$ 8,331,000,000.00	\$	8,430,000,000.00	\$ 8,791,000,000.00
Operating Profit		\$	1,360,000,000.00	\$ 2,133,000,000.00	\$	2,599,000,000.00	\$ 2,867,000,000.00
Operating Margin		\$	0.07	\$ 0.11	\$	0.13	\$ 0.14

Forecast Scenarios

Ticker Symbol	AAP
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Income Statement								
		1	Historic	al		Fore	cast	
	Year 1	Year 2		Year 3	Year 4	Year 5		Year 6
Revenue	\$ 6,205,003,000	\$ 6,493,814,000	\$	9,843,861,000	\$ 9,737,018,000	\$ 11,242,426,930	\$	12,980,582,277
Cost of Goods Sold	\$ 3,106,967,000	\$ 3,241,668,000	\$	5,390,248,000	\$ 5,314,246,000			
Gross Profit	\$ 3,098,036,000	\$ 3,252,146,000	\$	4,453,613,000	\$ 4,422,772,000	\$ 6,467,890,681	\$	7,467,870,387
Sales, General and Admin.	\$ 2,440,721,000	\$ 2,591,828,000	\$	3,601,903,000	\$ 3,596,992,000			
Research and Development	\$	\$	\$		\$ -			
Other Operating Items	\$	\$	\$		\$ -			
Total Operating Expenses	\$ 2,440,721,000	\$ 2,591,828,000	\$	3,601,903,000	\$ 3,596,992,000			
Operating Income	\$ 657,315,000	\$ 660,318,000	\$	851,710,000	\$ 825,780,000	\$ 1,598,593,045	\$	1,845,746,357

Operating Statistics						
Revenue Growth (%)		4%	34%	-1%	15%	15%
Gross Margin	0.53	0.53	0.54	0.57	0.58	0.58
Operating Margin	0.07	0.11	0.13	0.14	0.14	0.14

Operating Scenarios - Sensitivity Analysis		
Scenario Strong Case		
Revenue Growth (%)		
Strong case	15%	159
Base case	12%	129
Weak case	9%	99
Gross Margin		
Strong case	0.58	0.58
Base case	0.55	0.5
Weak case	0.52	0.5
Operating Margin		
Strong case	0.14	0.1
Base case	0.11	0.1
Weak case	0.08	0.0

Reference

https://m-soro.github.io/Business-Analytics/Introduction-to-Data/L9-Project-Analyze-NYSE-Data/