# Sector analysis of the s&p 500

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## Problem description:

The problem we face in this work is: how to find and visualize trends in sectors of the s&p 500 companies in the last decided, also we want to learn about sectors and companies from company news.

## Data:

 We found three API’s which will provide the next data (click on the name to reach API’s documentation): Finn hub: company’s general data, news annulments, and company’s major developments

Financial modeling prep: company’s Financial Statements, financial ratios, enterprise value, key metrics, and financial statement growth

Reality check of the Financial modeling prep data……

## Solution:

Our solution is, to use Financial modeling prep API data that includes Financial Statements, financial ratios, enterprise value, key metrics, and financial statement growth of all s&p companies from 2009 to 2019 for trend detection and prediction

of beating the s&p index

Trends of growth by sector:

Trends of beating the s&p index by sector: