

# Outline

## Nasdaq

1. Summary: This graph represent the market capitalisation of all Nasdaq Company as well as the sum up in each industry sector. The tool is splitted into three parts: sunburst diagram, bar and the information panel. All the diagrams will changed automatically while the mouse go over the sunburst diagram.
2. In this part
  - 2.1 Inner circle represent the industries. Middle circle represent the countries , outer circles represent the companies.
  - 2.2 The angle of each sector represent the total market capitalization and relevant protion.
  - 2.3 The inner circle using darker colors.
  - 2.4 In each circle, all the sectors are sorted from big to small.

3. The bar part represents the hierarchy path of the chosen sector.
4. On the right part, the panel displays the essential information such as name of the company or the industry, market Capitalization and percentage.

But when we consider the Top 500 companies, We found it is not suitable enough for us to dig all the info we wanted, such as the data variation with the time changes. So we create another tool again to achieve our initial goal.

## Top 500

### 1. Introduction

- 1.1 This diagram is also divided into three parts.
- 1.2 The sunburst hierarchy is just like the former graph. The inner circle represents continents, middle circle represents the countries and the outer circle represents the companies.
- 1.3 On the top there is bar help users choose the years and the two type of information to display.

### 2. How to use

- 2.1 First, we need to choose the years and the type. For example we choose 2010 and the Market Cap. The diagram will change the shape automatically and show all the Top 500 companies's information in 2010.

- 2.2 If we want to dig the information, we can click the sector to display the detailed part. For example we click "Asia". The diagram will display a new graph automatically.
- 2.3 If we find the changes in the past years. We can simply click the top bar and the diagram will show the result intuitively and smoothly.

## Conclusion

By all the above visualisation we are not trying to report the actual economy power of countries, but the Nasdaq company list or top 500 list somehow represent some interesting facts relate to this. By developing this tool, we also come up with a new pie chart view to see the economy world.

## Website

Finally, We have uploaded the whole website on the Internet. The URL is [pie4-stock.com](http://pie4-stock.com) please don't attack our small website. The website will show all the tools and the resource information in the project. We are looking forward to your feedback, the message board will be uploaded these days.

That's all our project report and...thank you very much.