

Data Visualization

Charting Libraries

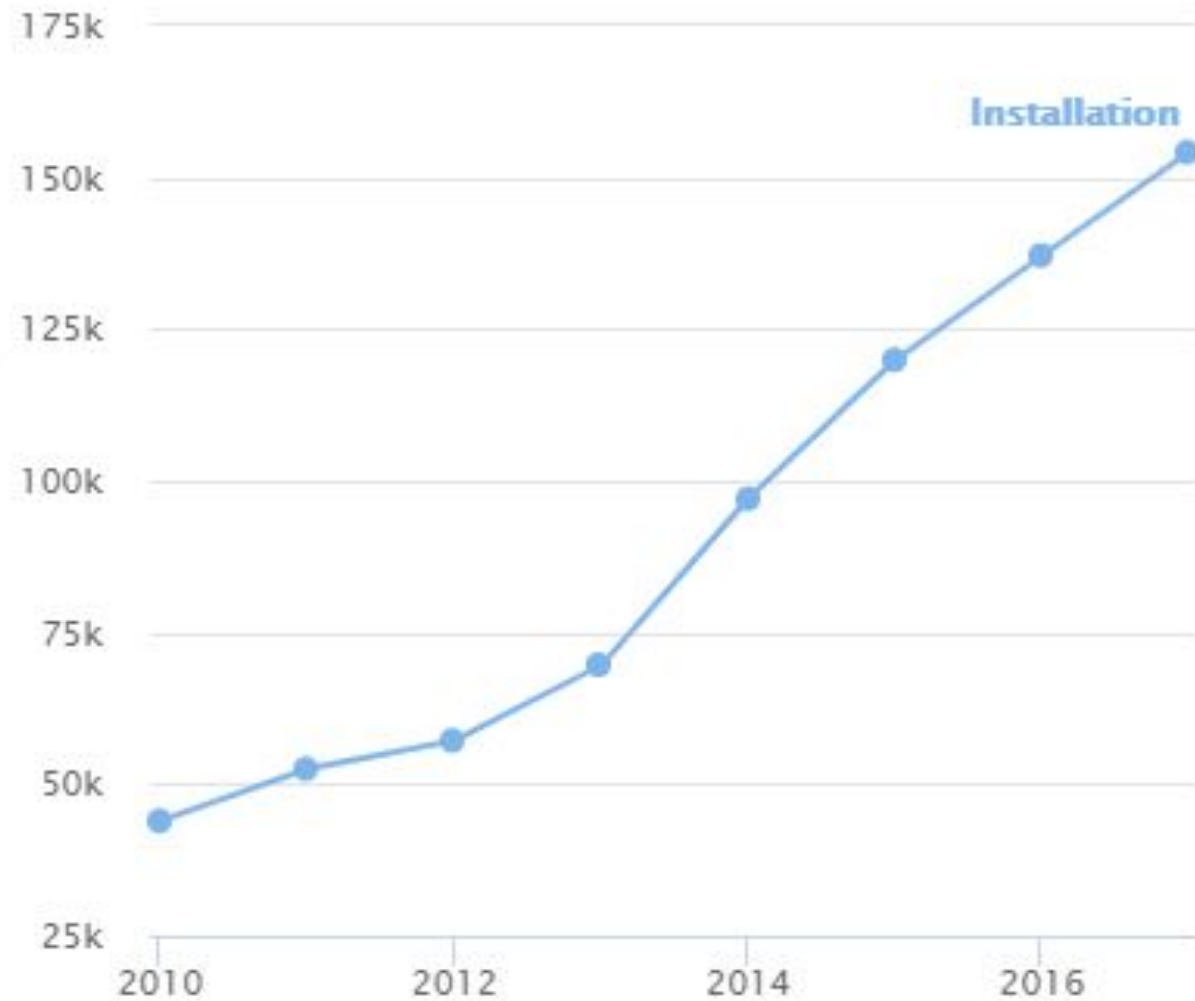
Data & Finding meaning from it

- The ever-increasing data size
- Data is vital to organizations
- But without meaning, data is of no use.
- So, it is important to find meaning

Sample data – tabular format

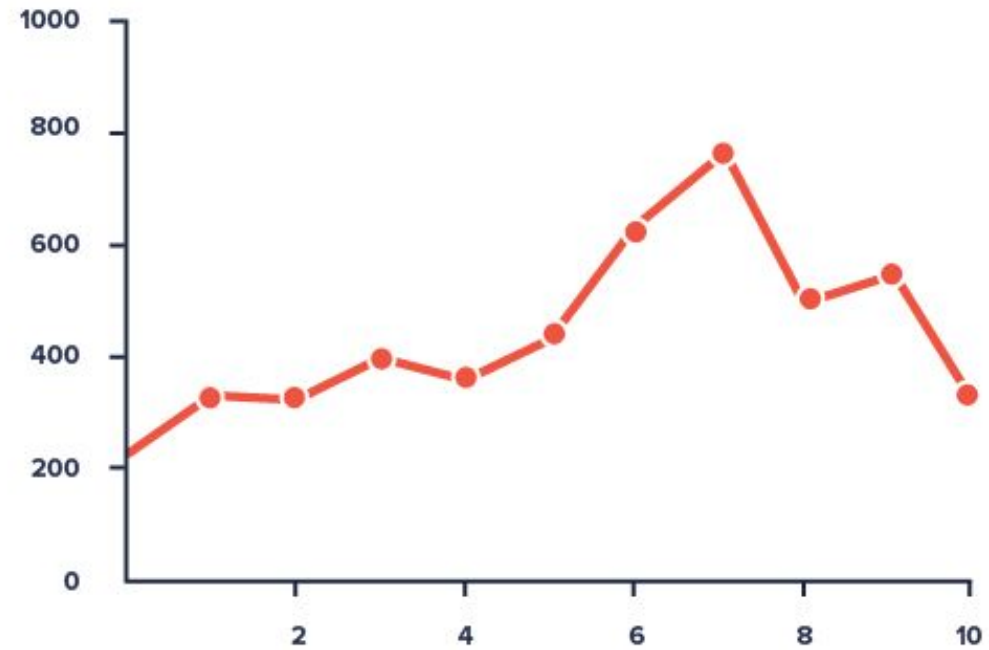
Year	Installations
2010	43934
2011	52503
2012	57177
2013	69658
2014	97031
2015	119931
2016	137133
2017	154175

Sample data – visualization



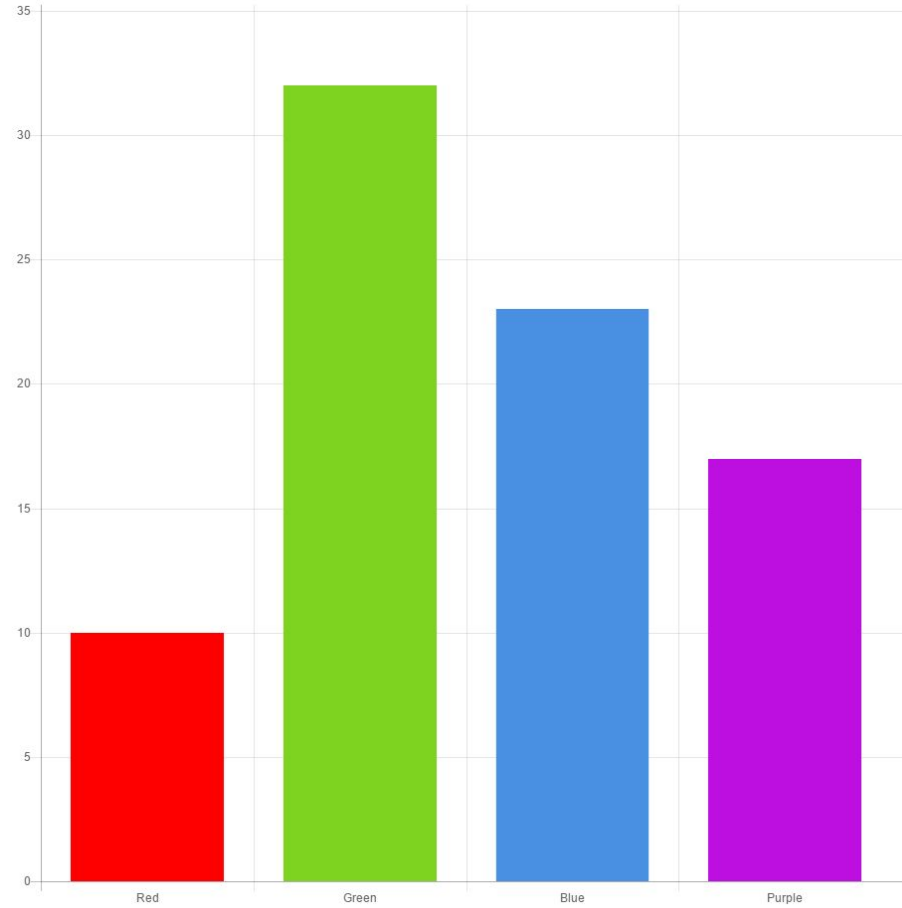
Different types of charts

- Line chart



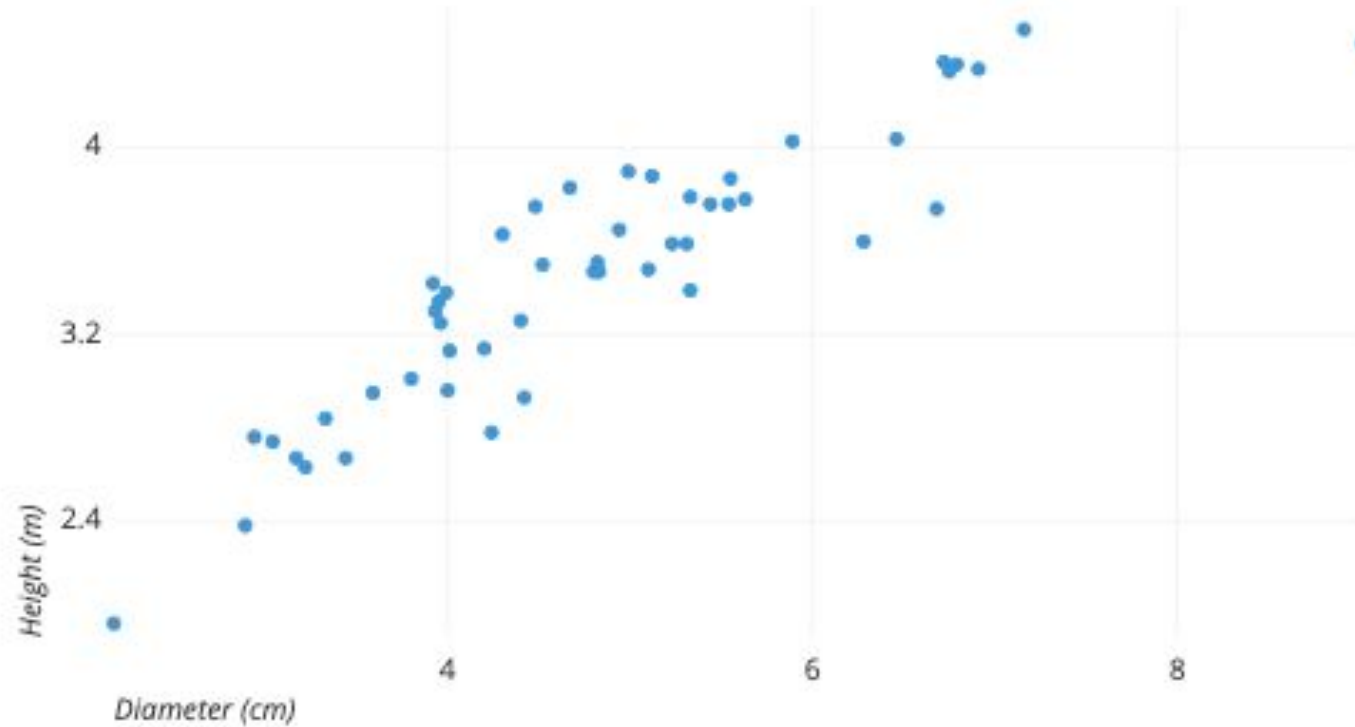
Different types of charts

- Bar chart



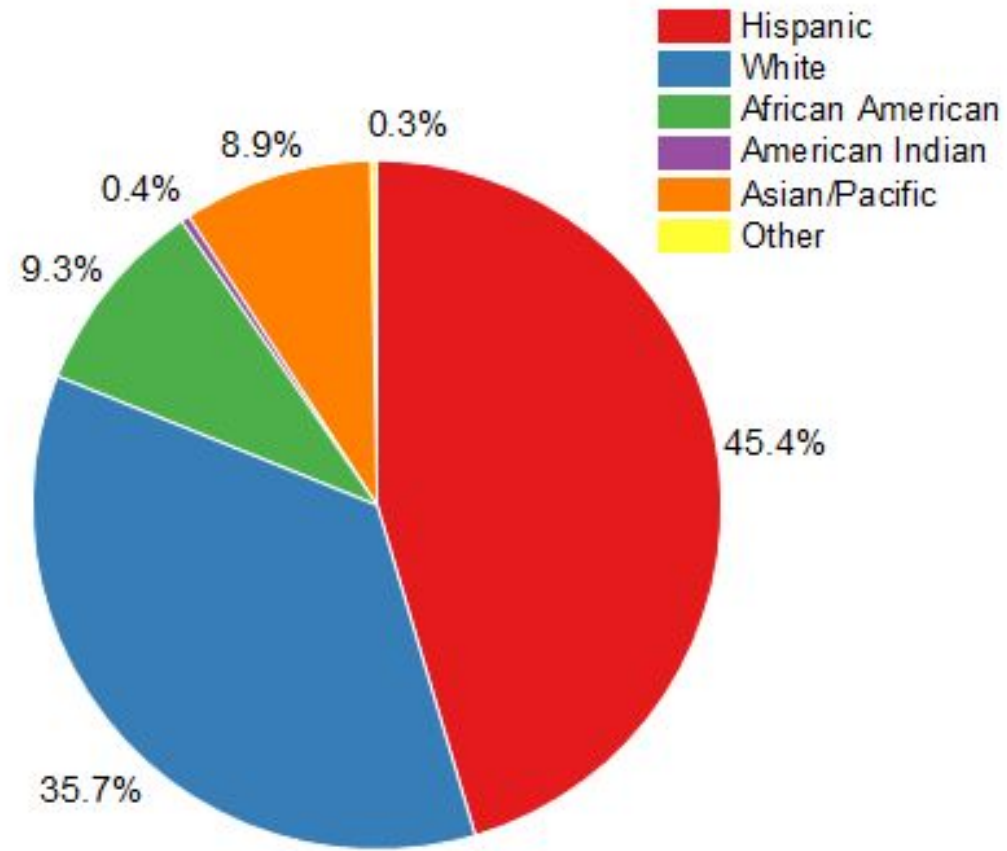
Different types of charts

- Scatter Plot



Different types of charts

- Pie Chart



Demo – Let's make a chart

Study Jam Activity

Objective

Create a UI dashboard/page with charts

Charting Library to be used

Highcharts

Data to be used

Data_Population_StudyJam.xlsx

Charts on the page

1. A **Line chart** with three lines, one each for India, China and United States. It should show populations from the year 2005 – 2018
2. A **Column Bar chart** showing 2018 population for 6 countries (Pakistan, Bulgaria, Egypt, Sri Lanka, Nigeria, South Africa)
3. A **Pie Chart** showing distribution of 2018 population of the world between India, China, United States and Others(All other countries)
4. A **Bar Chart** showing world population (All countries combined) for the years 2005-2018

Additional Details

1. All charts should have appropriate title, x label if needed, y label if needed, legends if needed