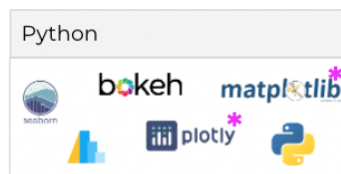


## Data Visualization Technologies

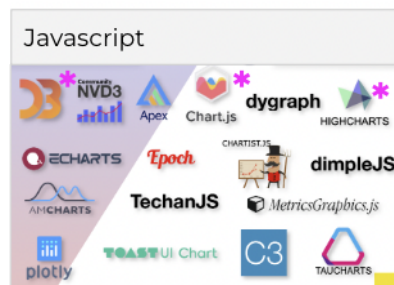
### 1. Tool Considerations

- a. Code-based or Graphical UI
  - i. Code-based are harder to use
  - ii. Graphical UI can be limited in terms of features but it is one-click
- b. On premise or Cloud
  - i. Install on locally or work on Cloud-based
  - ii. Local → can customize and the performance is better
  - iii. Cloud → can leverage the resource on the Cloud (Device independent)
- c. Open source commercial
  - i. Developed by community or by commercial organizations
- d. Free or Paid
- e. Support and Community
- f. Performance
- g. Scale
- h. Pricing Model
  - i. Free
  - ii. License
  - iii. Monthly/Annually
- i. Analysis or Presentation
  - i. What to accomplish

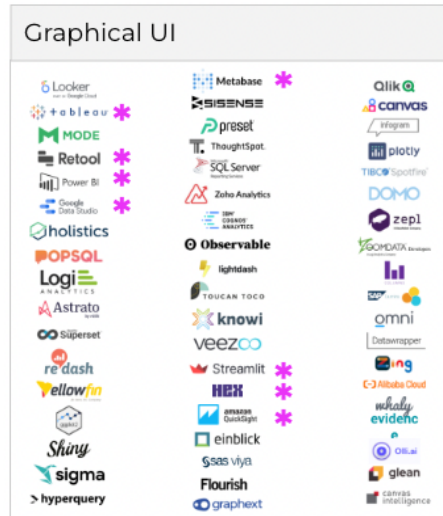
### 2. Data Visualization landscape



- a.
  - i. Charts and graphs to visualize the code
  - ii. Web applications and front end (can also be used for other reasons)

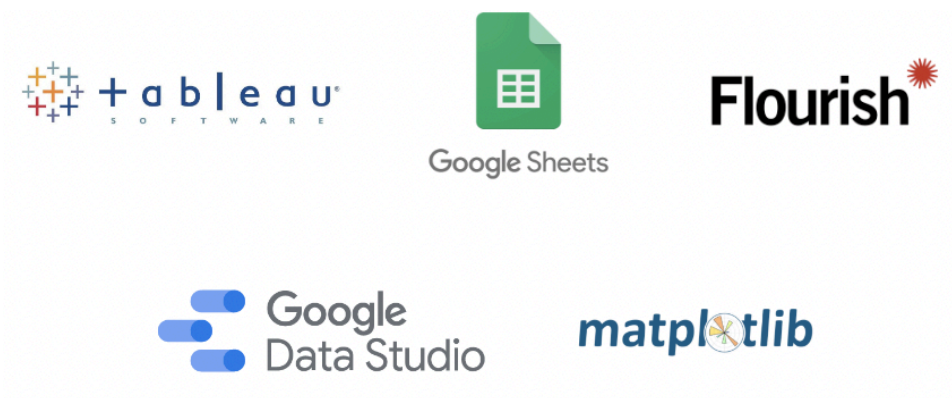


- b.
  - i. Generally web applications



c.

### 3. Demos



a.

### 4. Matplotlib

- a. Code-Based
- b. Installed
- c. Open-source
- d. Free
- e. Community
- f. Large Scale Data
- g. Good for coding use cases

### 5. Google Sheets

- a. Graphical UI
- b. Cloud
- c. Commercial
- d. Free
- e. Support and Community
- f. Small Scale Data
- g. Good for Analysis

6. Flourish
  - a. Graphical UI
  - b. Cloud
  - c. Commercial
  - d. Freemium
  - e. Support and Community
  - f. Small Scale Data
  - g. Good for web publishing
7. Google Data Studio
  - a. Graphical UI
  - b. Cloud
  - c. Commercial
  - d. Free
  - e. Support and Community
  - f. Medium Scale Data
  - g. Good for reporting
8. Tableau Software
  - a. Graphical UI
  - b. Installed (w/ Cloud option)
  - c. Commercial
  - d. Paid
  - e. Support and Community
  - f. Medium Scale Data
  - g. Good for analysis & presentation