



LECTURE 26-28 & LAB 11 TABLEAU

Fast Analytics & Rapid~Fire Business Intelligence

What is Tableau?



- Tableau is an amazing data visualization tool which is found to suitable especially for Business Intelligence (BI) and Analytics
 - Tableau provides features for easy and quick analysis of vast amount of business related data
 - Tableau provides features to analyze and interpret data in the form of
 - Different types of standard charts and graphs,
 - Interactive Maps (for geospatial data)
 - Interactive dashboards and Data Stories
 - Effective graphical representation tools and features in Tableau further assist in making good business decisions and developing successful business

Tableau: Features



- 1. Tableau supports powerful data discovery and exploration that enables users to answer important questions in seconds.
- 2. **No prior programming knowledge** is needed; users without relevant experience can start immediately with creating visualizations using Tableau
- It can connect to several data sources that other BI tools do not support. Tableau enables users to create reports by joining and blending different datasets
- 4. Tableau Server supports a centralized location to manage all published data sources within an organization

Tableau: Tools and Products

There are five major Tableau software platforms which are available, each one with a different scope:

- ▶ **Tableau Desktop**—A desktop application that allows users to collect, transform, and visualize the data
 - It is available only with a subscription
 - Data visualization files can be saved both locally and online



https://www.tableau.com/en-gb/products/desktop/download

Tableau: Tools and Products

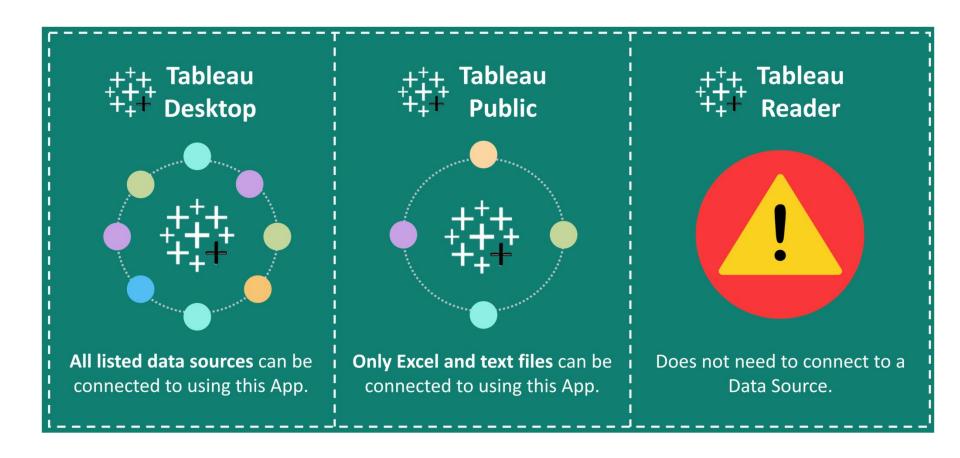
- ▶ **Tableau Public**—A free version of Tableau software that provides most of the functionalities provided by Tableau Desktop.
 - Unlike Tableau Desktop, it can only accommodate CSV, Excel, and text files.
 - There is also a limit of 15 million rows of data and any work you do cannot be saved locally only on Tableau Server.

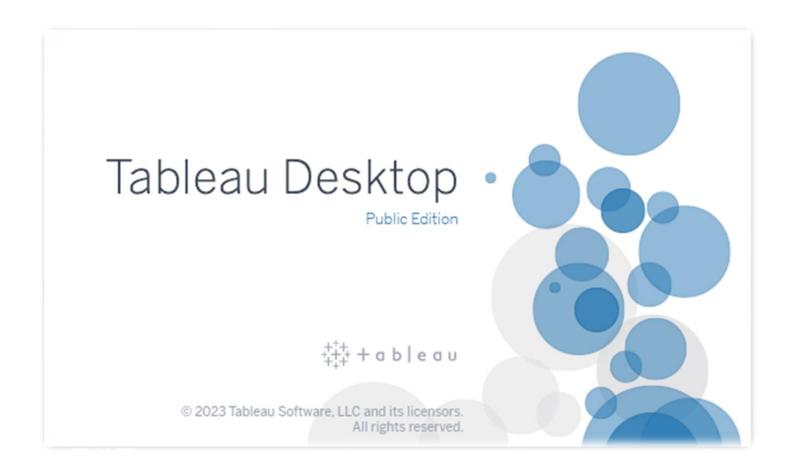


https://public.tableau.com/app/discover

Tableau: Tools and Products

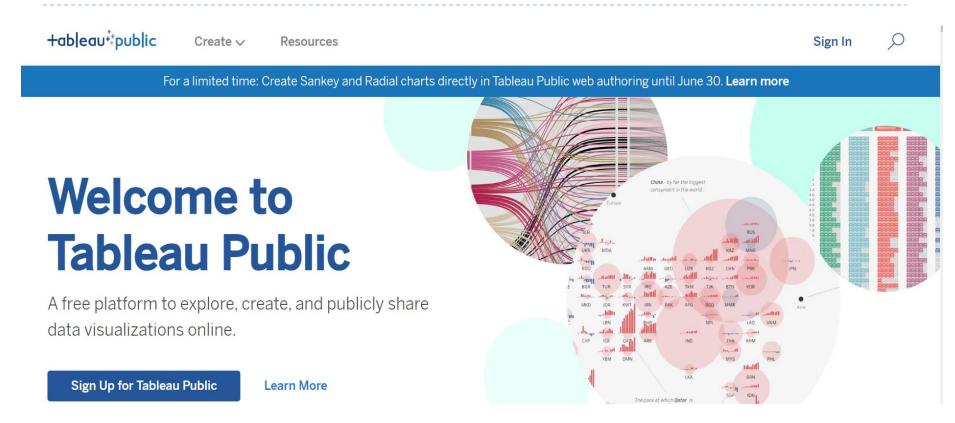
- ▶ **Tableau Reader**—A read-only application for opening and reading Tableau file types.
- ▶ Tableau Online—A cloud version of Tableau software that provides a way to publish and share dashboards online. It's fully hosted by Tableau
- ► Tableau Server—Like Tableau Online, it allows users to host and store data visualizations created with Tableau
 - The difference from Tableau Online is that it's not fully hosted by Tableau, but rather on public cloud platforms like AWS, Google Cloud Platform, and Microsoft Azure.







Signing up for Tableau Public



https://public.tableau.com/app/discover

Create your Tableau Account

First Name

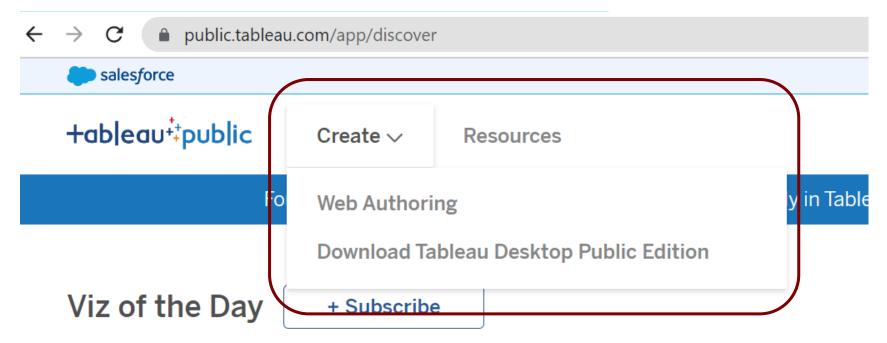
Last Name

Email

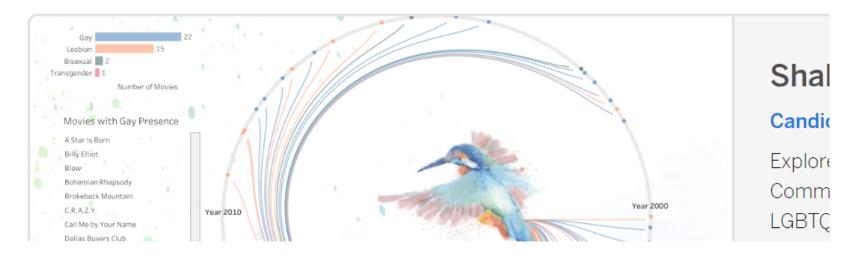
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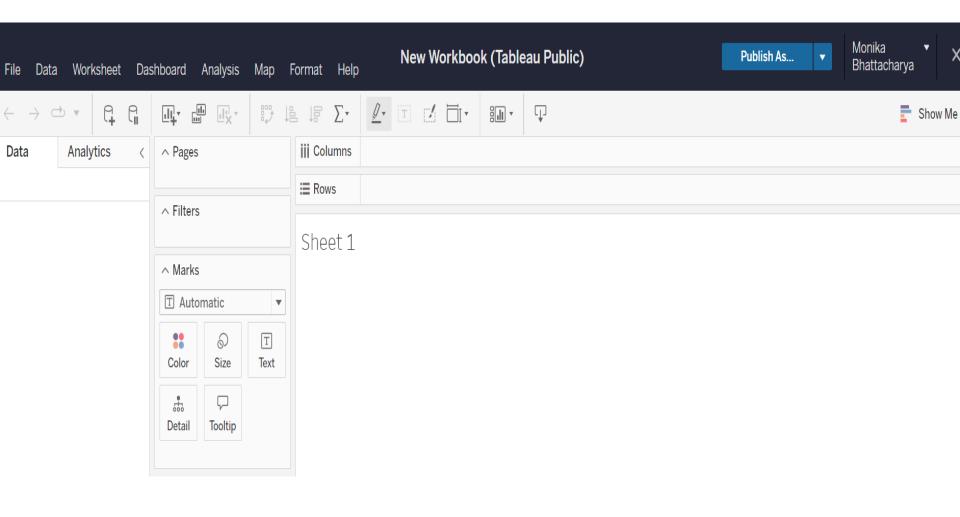
Confirm Password

CREATE MY ACCOUNT

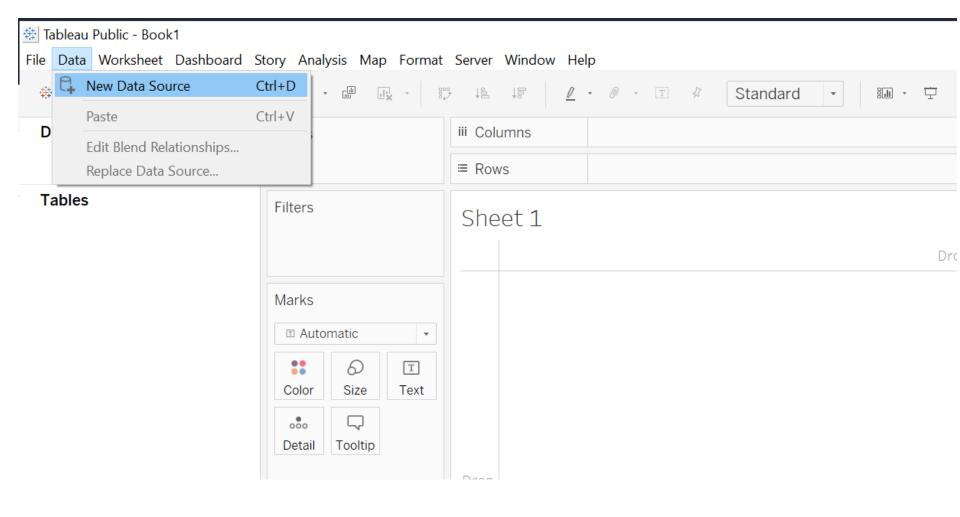


See a new viz featured every weekday





Loading Data Source (.csv,.xls,.xlsx file)



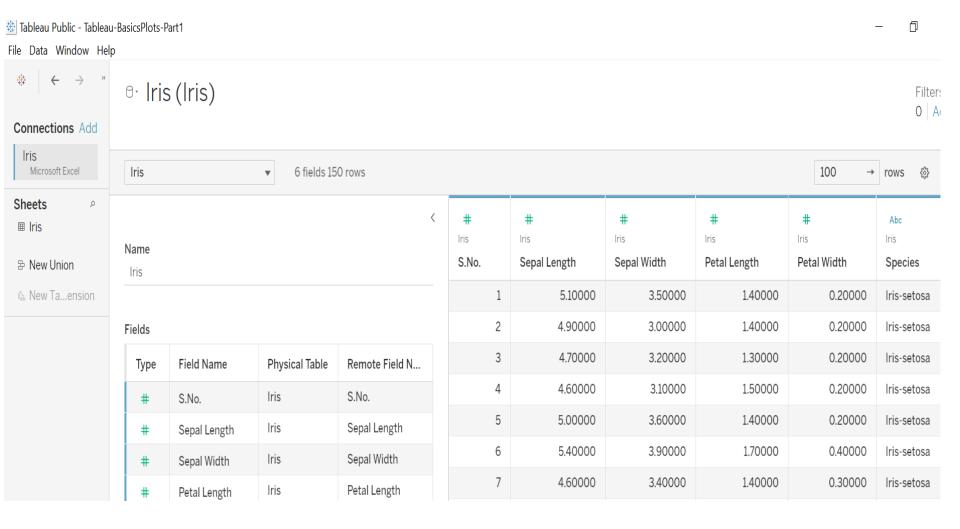
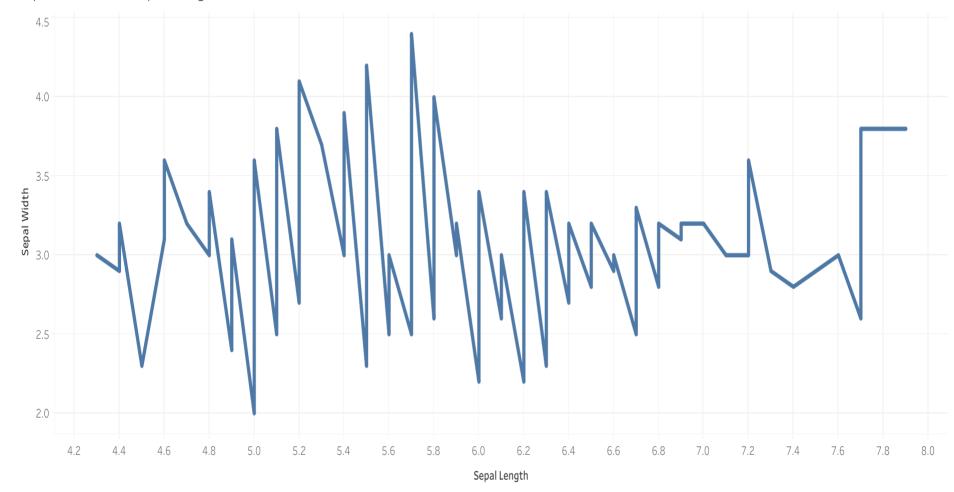
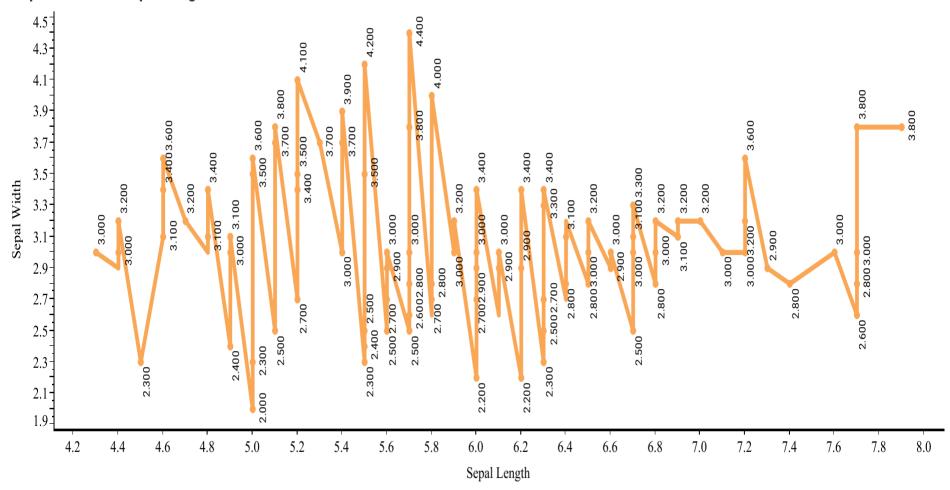
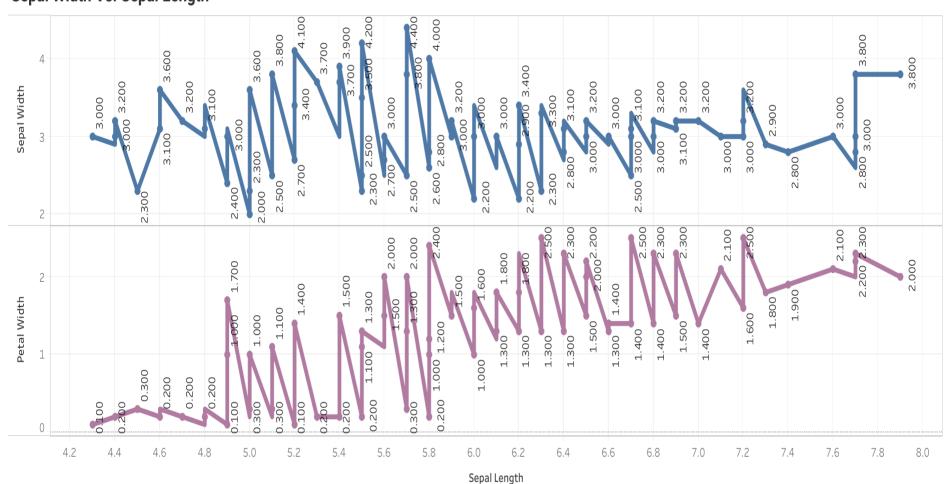


Tableau-BasicsPlots-Part1

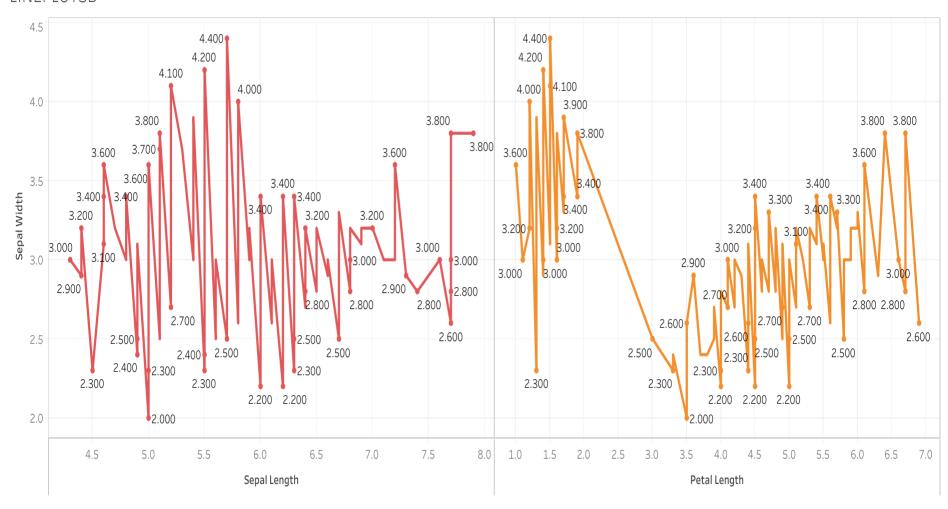


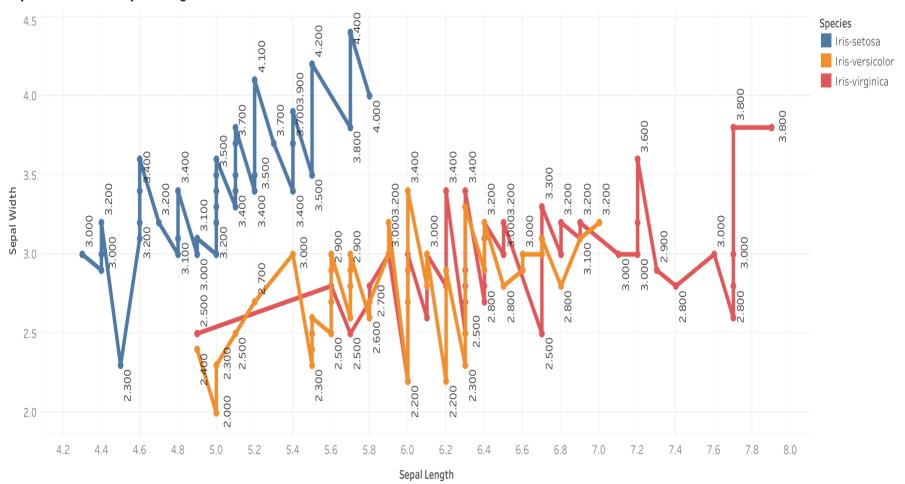
Sepal Length vs. Sepal Width.

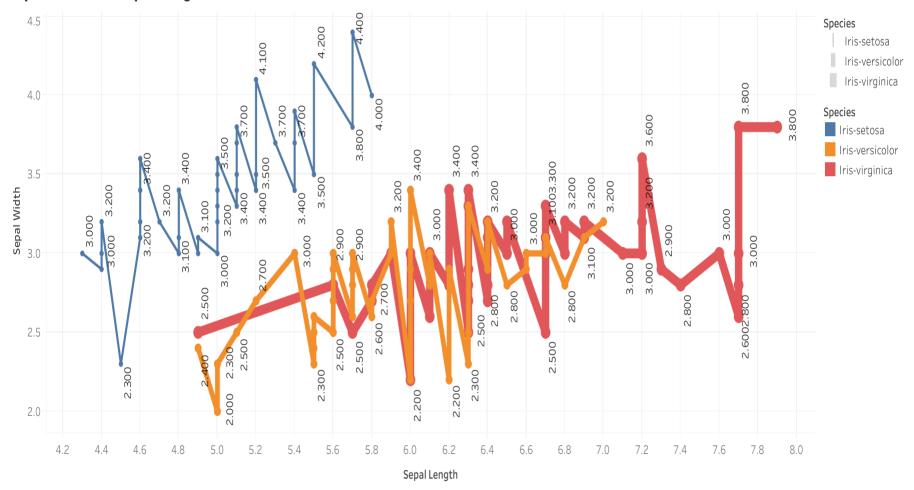


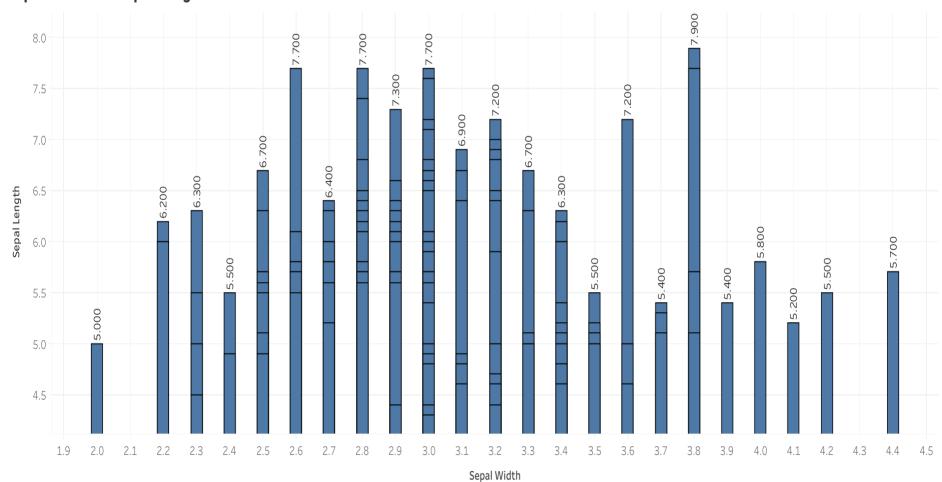


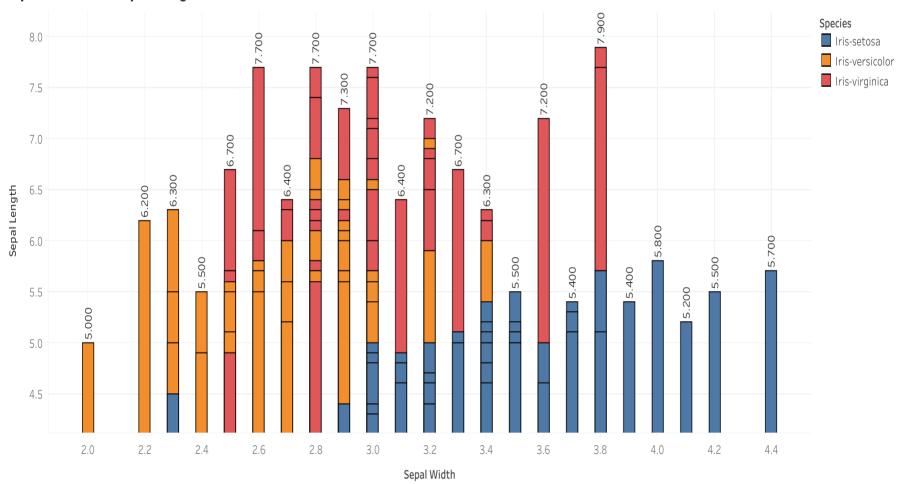
LINEPLOT3B

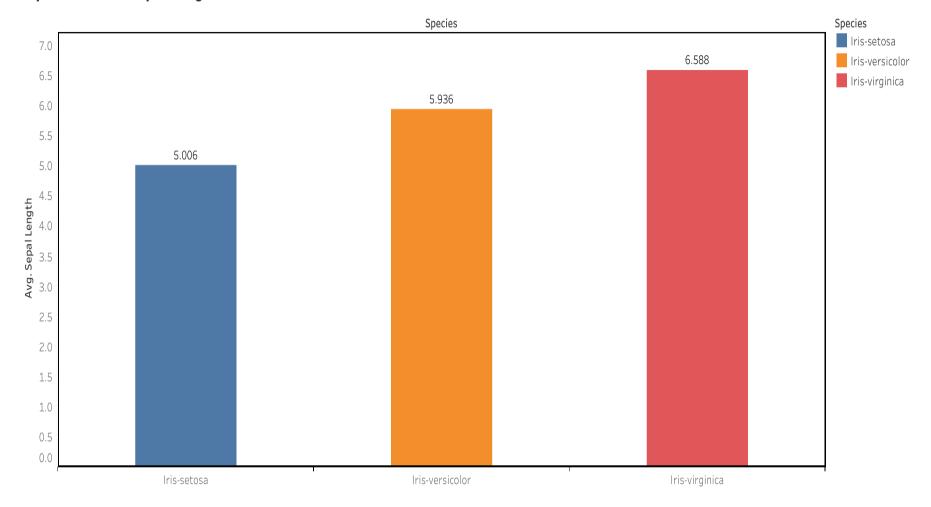


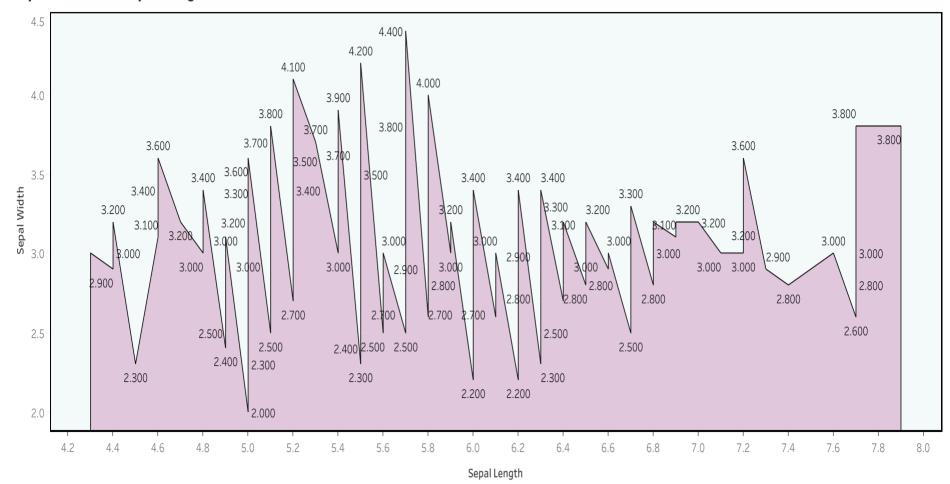


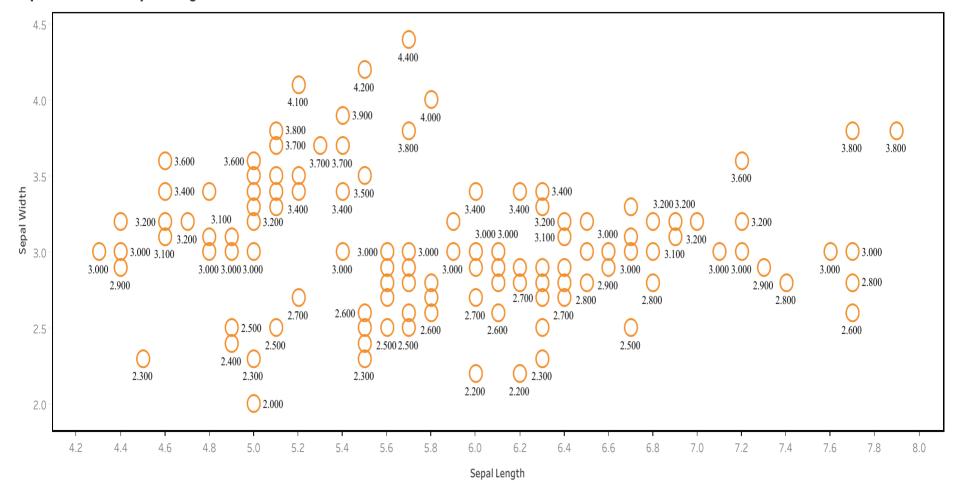


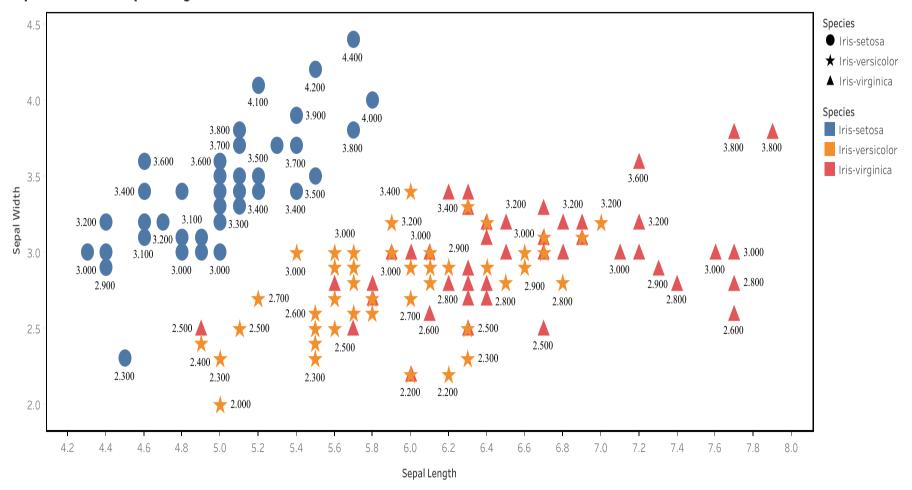


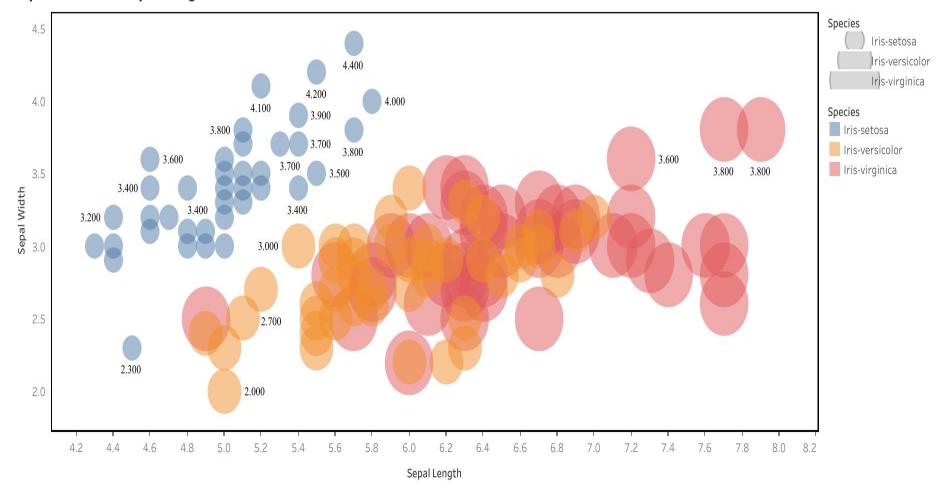






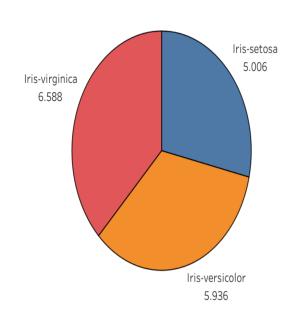






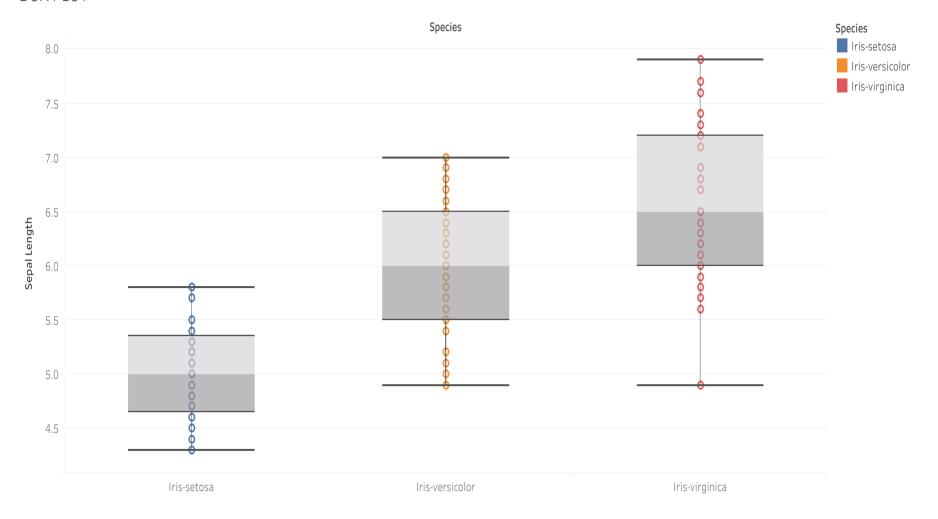
PIE CHART





Species and average of Sepal Length. Color shows details about Species. The marks are labeled by Species and average of Sepal Length.

BOX PLOT



Sheet 4

Species	Avg. Sepal Length	Avg. Sepal Width	Avg. Petal Length	Avg. Petal Width
Iris-setosa	5.006	3.418	1.464	0.244
Iris-versicolor	5.936	2.770	4.260	1.326
Iris-virginica	6.588	2.974	5.552	2.026