



Bansilal Ramnath Agarwal Charitable Trust's  
Vishwakarma Institute of Information Technology  
Department of  
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**Subject Name & Code:** ADUA21206 - Data Visualization

**Title of Assignment:** Hierarchical Category Visualization

**Date of Performance:** 13/10/2022

**Date of Submission:** 14/10/2022

**Aim:** Visualize the dataset using hierarchical category: Tree diagram and ring charts/Sun Brust.

**Problem Statement:** Download data set from Kaggle/Tableau/data world. Visualize the dataset using hierarchical category: Tree diagrams and ring charts/sun Brust.

**Theory/Writeup:**

## Assignment no. 06

1. What is tree map and ring chart / sunburst and their use:

•) Tree map: A tree map is a visual method for displaying hierarchical data that uses nested rectangles to represent the branches of a tree diagram. Each rectangle has an area proportional to the amount of data it represents.

•) Uses of tree map:

- Is used for representing hierarchical data in a tree-like structure.
- Tree maps are often used for sales data, as they capture relative sizes of data categories, allowing for quick pick of the items that are large contribution to each category.

•) Sunburst:

- The sunburst chart is ideal for displaying hierarchical data. Each level of the hierarchy is represented by one ring or circle with the innermost circle as the top of the hierarchical. A sunburst chart without any hierarchical data, looks similar to a doughnut chart.

•) Use of sunburst:

- Visualising file size of different modules in a software package.
- It can be used for folders or organization analysis.
- It is a space-filling visualization that uses a radial, rather than a rectangular layout.

2. Detail of datasets.

- Dataset is of sample superstore which contains information of ship mode, segment, country, city, state, postal code, region, category, sub-category, sales, quantity, discount, profit. Which contains category as furniture, office supplies, technology and sub-category contains, book cases, chairs, label, tables, storages, furnishing, Art etc.

3. What questions are addressed with the visualization

1- 1) What does group graph shows?

2) Which among the category has highest sales?

3) Which among the category has the lowest sales?

2- 1) Which among region has the highest sales?

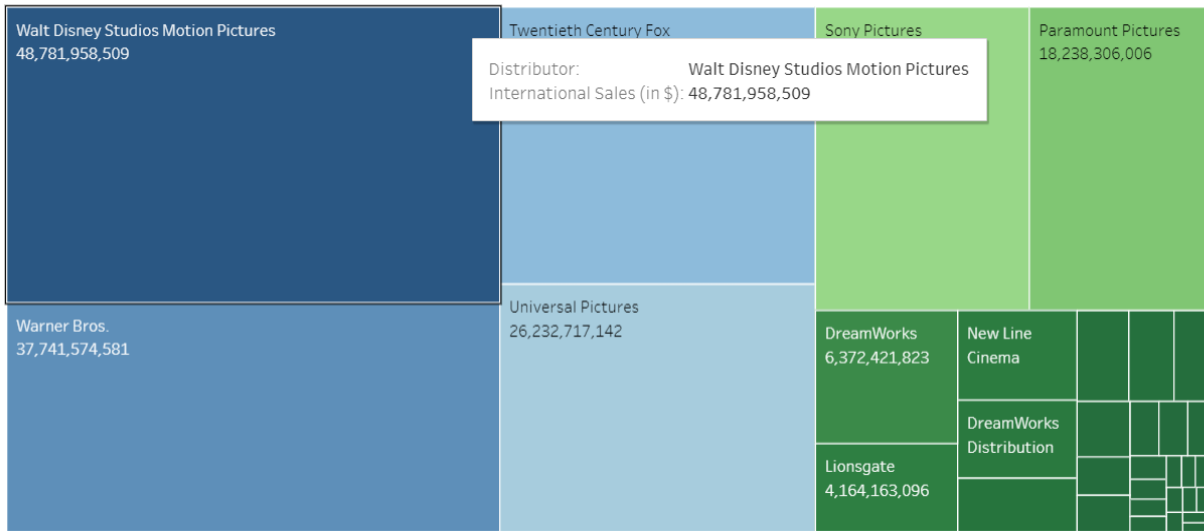
2) Which among region has the lowest sales?

3) Which sub-category has highest sales?

4) How to differentiate sales in lower & higher?

## Distributors of Movies showing the highest International Sales

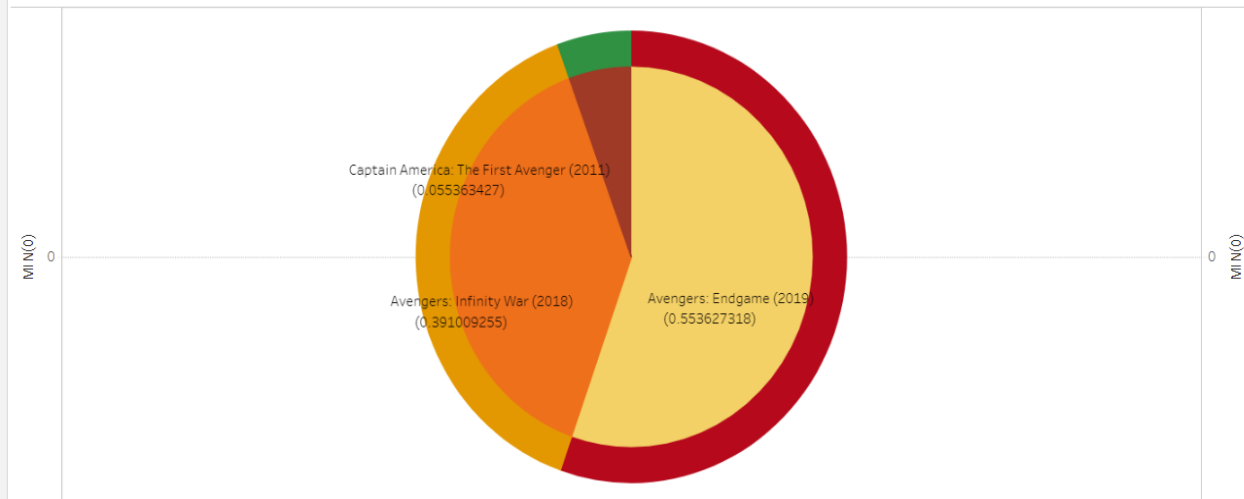
International Sales (in \$)  
2,604,529 498



## Title of the Movies with International Sales in Percentage

Title, Genre  
Avengers: Endgame (...)  
Avengers: Infinity W...  
Captain America: The...

Title  
Avengers: Endgame (...)  
Avengers: Infinity W...  
Captain America: The...



MIN(0) and MIN(0). Color shows details about Title. For pane MIN(0): Color shows details about Title and Genre. For pane MIN(0): The marks are labeled by % of Total International Sales (in \$) and Title. The view is filtered on Title, which keeps Avengers: Endgame (2019), Avengers: Infinity War (2018) and Captain America: The First Avenger (2011).

Tableau Public Profile Link:

1. [https://public.tableau.com/authoring/B 28 SiddheshKhairnar DV ASS 6/Sheet1#1](https://public.tableau.com/authoring/B%20SiddheshKhairnar%20DV%20ASS%206/Sheet1#1)
2. [https://public.tableau.com/authoring/B 28 SiddheshKhairnar DV ASS 6/Sheet2#1](https://public.tableau.com/authoring/B%20SiddheshKhairnar%20DV%20ASS%206/Sheet2#1)