

## Introduction

### Treemaps Test

1. To answer the questions, open the interactive software linked [here](#) in a new tab.
2. This test consists of 4 sections and 16 questions in total.
3. The test will approximately take 20 - 25 minutes.

Enter your participant ID

## Animals Dataset

### Section I: Animals Dataset

Follow these instructions and answer the questions below :

1. Use this [link](#) to access the interactive treemap software.
2. On the top left corner of the screen, you can see that 'Animals' dataset has been selected.
3. To enhance readability, utilize the color scheme options available in the top-right corner of the screen to modify the appearance of the treemap.
4. Expand the sub-nodes of the treemap by selecting individual rectangles (nodes) as needed.

1. Locate the path for the species - 'frogs' using the software for the node-link and treemap diagram

- ☐ Animals -> Arthropods -> Arachnids -> Frogs
- ☐ Animals -> Vertebrates -> Amphibians -> Frogs
- ☐ Animals -> Arthropods -> Crustaceans -> Frogs
- ☐ Animals -> Vertebrates -> Mammals -> Frogs

2. Which animal categories have similar populations in that specific category of species?

- ☐ Clams and Snails
- ☐ Reptiles and Mammals
- ☐ Medusozoans and Anthozoans
- ☐ Birds and Fish

3. Based on the color intensity and the size of the nodes in the arthropods family, the population of 'spiders' is larger than that of 'mites'.

- ☐ True
- ☐ False
- ☐ Not sure

4. To which category of species do 'jellyfish' belong?

- ☐ Arachnids
- ☐ Medusozoans
- ☐ Mammals
- ☐ Crustaceans

## Flares dataset

## Section II : Flare Dataset

Follow these instructions and answer the questions below :

1. Use this [link](#) to access the interactive treemap software.
2. On the top left corner of the screen, select the 'Flare' option to answer this section.
3. To enhance readability, utilize the color scheme options available in the top-right corner of the screen to modify the appearance of the treemap.
4. Expand the sub-nodes of the treemap by selecting individual rectangles (nodes) as needed.

1. Locate the path to 'DataSprite' using the software for the node-link and treemap diagram.

- ☐ Flare -> Data -> DataSchema -> DataSprite
- ☐ Flare -> Analytics -> Cluster -> DataSprite
- ☐ Flare -> Vis -> Data -> Datasprite
- ☐ Flare -> Vis -> Controls -> DataSprite

2. To which category of 'Flare' does 'Binary Expression' belong?

- ☐ Animate
- ☐ Util
- ☐ Query
- ☐ Physics

3. 'NodeLinkTreeLayout' belongs to the 'Animate' category

- ☐ True
- ☐ False
- ☐ Not sure

4. Based on the color intensity and the size of the nodes in the 'vis' category, 'operator' is in a higher number than 'data'.

- ☐ True
- ☐ False
- ☐ Not sure

## SP500 dataset

### Section III - SP500 Dataset

Follow these instructions and answer the questions below :

1. Use this [link](#) to access the interactive treemap software.
2. On the top left corner of the screen, select the 'SP500' option to answer this section.
3. To enhance readability, utilize the color scheme options available in the top-right corner of the screen to modify the appearance of the treemap.
4. Expand the sub-nodes of the treemap by selecting individual rectangles (nodes) as needed.

1. Locate the path to 'AMT' using the software for the node-link and treemap diagram.

- ☐ Companies -> Communication Services -> Internet Content -> AMT
- ☐ Companies -> Real Estate -> REIT Speciality -> AMT
- ☐ Companies -> Technology -> Software Infrastructure -> AMT
- ☐ Companies -> Healthcare -> Healthcare Plans -> AMT

2. Which category of companies is the most populated in the treemap based on the color map?

- ☐ Healthcare
- ☐ Communication Services
- ☐ Technology

☐ Financial Services

3. To which category of companies does 'Beverages' belong?

☐ Utilities

☐ Consumer Cyclic

☐ Industrials

☐ Consumer Defensive

4. 'Aerospace & Defense' belongs to the company category of 'Communication Services' :

☐ True

☐ False

☐ Not sure

## Orchestra Dataset

### Section IV - Orchestras Dataset

Follow these instructions and answer the questions below :

1. Use this [link](#) to access the interactive treemap software.
2. On the top left corner of the screen, select the 'Orchestras' option to answer this section.
3. To enhance readability, utilize the color scheme options available in the top-right corner of the screen to modify the appearance of the treemap.
4. Expand the sub-nodes of the treemap by selecting individual rectangles (nodes) as needed.

1. Locate the path to 'Cornet' in the treemap node-link diagram.

☐ Orchestras -> Modern Orchestra -> Brass -> Cornet

- ☐ Orchestras -> Classical Orchestra -> Brass -> Cornet
- ☐ Orchestras -> Late Romantic Orchestra -> Brass -> Cornet
- ☐ Orchestras -> Early Romantic Orchestra -> Brass -> Cornet

2. 'Tubas' belongs to the 'Late Romantic Orchestra' but does not belong to the 'Classical Orchestra'

- ☐ True
- ☐ False
- ☐ Not sure

3. Based on color depth and size of the nodes, 'Strings' in the 'Early Romantic Orchestra' is present in a higher quantity than 'Strings' in the 'Modern Orchestra'.

- ☐ True
- ☐ False
- ☐ Not sure

4. 'Marimba' belongs to which of the following categories of Orchestras?

- ☐ Late Romantic Orchestra
- ☐ Early Romantic Orchestra
- ☐ Modern Orchestra
- ☐ Classical Orchestra

## Conclusion

Thank you for your time spent taking this survey!

Copy this phrase **USFCATreemap** and enter it in the main survey.

Survey Powered By  Qualtrics