## Session 3 – Exercise 1 Week 3: Human Perception and the Visual System

## “Covid Dashboard”, “Covid Pandemic Story”

### Intro

* Filters, linking worksheets, introduction to calculated fields.  
  Static Versus Interactive Visualizations  
  -------------------------------------------------------------------------------  
  Filters with relevant values and context.  
  Parameters and Actions on Dashboard  
  Story board Function

### Topics covered

* Dashboard
* Interactivity

### To Do

* Building a dashboard
* Filter Actions

### Instructions

Use “COVID-19 Activity Extract” data set which is included in the packaged file that should be downloaded locally fist. Open Tableau Desktop, File, Open, navigate to the downloaded "Visual Analytics PGR110 - Session 3 - Starter.twbx" and open it. Should not be linked to my local files.

The \*.twbx-file should include both the data source, some finished worksheets and dashboards. Do NOT open it as an Excel/csv-file. Then it won't work. And - if you download it to a \*.zip file, remember to unzip it! “Visual Analytics PGR110 - Session 3 - Starter.twbx”.

View/Sheet one (Map)

Create a new worksheet (in the starter workbook).

Add Country to the worksheet, SUM(Selected Cases) to Size.

Add “Selected Metric Header” to Detail on the Marks Card.

Graphical user interface, text, application

Description automatically generated

Show both Parameters (right click on each individually, “Show Parameter”), test that the values/circles are changing.  
Add “Selected Metric Header” to detail on the Marks Card.

Edit title, add “Selected Metric Header” and instructions:

<Selected Metric Header>

Select a Country to see more details

Add the sum of “People Death Count”, “People Death New Count”, “People Positive Cases Count” and “People Positive New Cases Count” to the tooltip. Modify this to look nice like this:

Graphical user interface, text, application

Description automatically generated

Add a filter for “Date is Max” = “TRUE”

Click on the “2 nulls” message in the map (right corner), select “Filter data”.

Adjust the color for the circles, change to red (#e15759), opacity 50%, and a light black border.

Graphical user interface

Description automatically generated with medium confidence

Rename worksheet to “Map”

View/Sheet Two (Deaths over time)

Add a new worksheet.

Add “Report Date” (Exact date) and sum of “Total or New Deaths” to the view. Change color to red (#e15759), opacity to 60%. Change to “Area”.

Edit both axis’, remove the “Axis Title” on both.

Rename the worksheet to “Deaths over time”

View/Sheet Three (Positive over time)

Add a new worksheet.

Add “Report Date” (Exact date) and sum of “Total or New Positive Cases” to the view. Change color to red (#e15759), opacity to 60%. Change to “Area”.

Edit both axis’, remove the “Axis Title” on both.

Rename the worksheet to “Positive over time”

Dashboard

Use the “Covid Dashboard”.

Add the worksheet “Map” to the dashboard. Add a Horizontal Container to the right, add “Positive over Time” and “Deaths over time” worksheets in the same container.

If the two parameters are not showed, add them from the map sheet in the dashboard:

Graphical user interface, application, Word

Description automatically generated

Add the worksheet “Global Title” to the top of the dashboard, remove the title, adjust to “Entire View”. Adjust the height to make it fit (approx. 90 pixels).

Create a floating horizontal container. Move both parameters into the new floating container. Move it to the top right (after the title) on two rows, see below in the picture of the finished solution. Delete the empty vertical container (from the right side of the dashboard). It’s now automatically removed.

Add a dashboard action (Menu, Dashboard) to make sure that the area charts are filtered when selecting one or more countries on the map.

“Filter Action”, from “Map” to “Deaths over time” and “Positive over time”. Action based on “Select”, clearing the selection will “Show all values”. Filter on “Selected fields”; “Country” to “Country”. See below.

Graphical user interface, application

Description automatically generated

Test the dashboard (test parameters and click on any country in the map). Sizes on the map should change, values in the area charts should change and the title on the map should change.

### Result

**Graphical user interface

Description automatically generated**

## Session 3 – Exercise 2 Week 3

### Intro

* Story board Function

### Topics covered

* Storytelling

### To Do

* Building a Story

### Instructions

Feel free to use previously created or new visualizations (dashboards and sheets) to create a story of 4-6 pages.

Use the “Covid Pandemic Story” sheet already in the Starter Workbook.

If you have other visualizations/analysis in other Tableau Workbooks, open them in Tableau Desktop, right click on the sheet/dashboard name, then select copy. Go to the existing/new workbook, right click on any empty sheet and select paste to copy it there.

“Accumulative Death Cases” + “# Positive Cases pr Continent/Country” are already in the workbook.

Add annotations and comments.

Export it to Power Point (from File, Export As PowerPoint).

### Result (example)

**Graphical user interface

Description automatically generated** **Graphical user interface, application, website

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**A picture containing line chart

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**Chart, treemap chart

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