## Session 4 – Exercise 1 – 4 Week 4: Building Charts | The Details of Information Design

### Intro

* Introduction to different charts

### Topics covered

* 4 different charts to be built
  + Word Cloud
  + Dual Axis Chart
  + Scatter Plot
  + Area Chart

### To Do

* Connect to data source
* Create different type of visualizations
* Add extra functionality (filters, highlight, colored title etc.)

### Instructions

“Word Cloud”

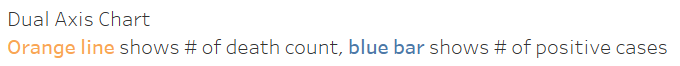
1. Open Tableau Desktop, connect to CSV-file “COVID-19 Activity.csv”.  
   Add “Country” to the “Text” on the marks card.
2. Change visualization type to “Text” (from “Automatic” on Marks Card).
3. Add sum of “People Death New Count” to “Size”.
4. To increase the variations, add “^2” to the green pill “SUM(People Death New Count)”. Double click on the green pill, add square of 2 (^2) in the end. Hit Enter.
5. Add a highlighter for country, test it.
6. Add a single-value filter for “Continent Name”, test it.
7. Add sum of “people Death New Count” to tooltip, remove the squared information from tooltip.
8. Rename the sheet “Word cloud”.
9. Save the workbook, rename to “Session 4”.

Text, letter

Description automatically generated

“Dual Axis Chart”

1. Use data source “COVID-19 Activity.csv”.  
   Add “Report Date”, continuous month to the view (columns)
2. Add sum “People Positive New Cases Count” to the view (rows). Add sum “People Death New Count” next to the existing green pill on rows.
3. Right click on the last green pill, select “Dual Axis” to get both measures on the same axis.
4. Change visualization type to Bar for “People Positive New Cases Count”. Change color, Positive = Blue, Death = Orange.
5. Remove/Hide color legend.
6. Rename Sheet “Dual Axis Chart”.
7. Adjust tool tip.
8. Adjust title to this:



1. Save workbook.

Chart, histogram

Description automatically generated

“Scatter Plot”

1. Use data source “COVID-19 Activity.csv”.  
   Add average “People Positive New Cases Count” to the view (columns). Add average “People Death New Count” to the view (rows) by double-clicking on each. You now have a scatter plot.
2. Add “Country” to “Label”. Add “Continent Name” to color. Adjust the opacity to 70%.
3. Change shape from an empty circle to a filled circle (from “Shape” on Marks Card)
4. Add sum “People Positive New Cases Count” and “People Death New Count” to “Tooltip. Adjust the tooltip.
5. Add “Report Date”, discrete year to the view (columns), creating a small multiple.
6. Remove/filter “Null” from “Continent Name”. Add a highlighter for “Country”
7. Change fit window to “Entire View” (from toolbar).
8. Adjust tooltip.
9. Rename Sheet “Scatter Plot”.
10. Save workbook.

## Chart, scatter chart Description automatically generated

“Area Chart”

1. Use data source “COVID-19 Activity.csv”.  
   Add sum “People Positive New Cases Count” to the view (rows).
2. Add “Report Date”, continuous week to the view (columns).
3. Add “Continent Name” on Color. Remove “Null”.
4. Change viz type from “Automatic-line” to “Area” on the Marcs Card.
5. Add a new sum “People Positive New Cases Count” to the view on rows (in the end).
6. Remove “Continent Name” from the new field on the Marks Card, change visualization type to “Line” and change color to black.
7. Dual Axis, synchronize axis and remove header on the right axis.
8. Adjust date axis, remove “Axis Titles”. Change tick marks to show in intervals of every year.
9. From the marks card (Area), change the sort for “Continent Name”. Sort by field, “People Positive New Cases Count”, Descending.
10. Add “Continent Name” to “Label” (on Area, marks card)
11. Adjust tooltip.
12. Rename Sheet “Area Chart”.
13. Save workbook.

## Chart, histogram Description automatically generated