**Hands-On Exercise 3**

ggiraph is a htmlwidget and ggplot2 extension <https://davidgohel.github.io/ggiraph/index.html>

ggplot geometries <https://davidgohel.github.io/ggiraph/reference/index.html#section-interactive-geometries>

* **Tooltip**: a column of data-sets that contain tooltips to be displayed when the mouse is over elements.
* **Onclick**: a column of data-sets that contain a JavaScript function to be executed when elements are clicked.
* **Data\_id**: a column of data-sets that contain an id to be associated with elements.

If it used within a shiny application, elements associated with an id (data\_id) can be selected and manipulated on client and server sides. <https://www.ardata.fr/ggiraph-book/selections.html>

3.4.1

**In-Class Exercise 3**

A screenshot of a computer

Description automatically generated

Drag the component to “Filters” on the left side column and click “Show Filter” to get the bar on the right side of the page

Can choose “Single value” if you don’t want the option of multiple values so you don’t have to check and uncheck all the time

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Description automatically generated

If don’t want the “All” function in the filter, can remove

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Double click the title and insert the date into title without hardcoding since filter is available

Format > Animations: can change the duration to change the speed of change as you change filter

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If only want selected sheets to have animation, switch off the workbook default first, but remember to switch on animation for the workbook you want

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After putting in column (YEAR(Order Date)) and row (SUM(Sales)), can drag profit to the space on the right of the graph. Only when you see the vertical line show, then drop. The axis are not shared so you can right click the axis and synchronize axis for the 2 graphs

A graph with a line going up

Description automatically generated

To make the profit a bar chart, must make the profit sheet active by clicking on it first, before changing the chart to a bar

To make the chart smaller, drag the line below the labels (below year) and on the right of label to make the whole squeeze

A graph with a line going up

Description automatically generated with medium confidence

Go back to previous sheet and go to Tooltip > Insert > Sheet > Annual Sales and Profit to insert the “Annual Sales and Profit” sheet into the Tooltip

A screenshot of a computer

Description automatically generated

Change to 0 so that loss will reflect as red, then profits will be blue

A screenshot of a computer

Description automatically generated

Fit Height so that you don’t have to scroll to see all the states

To coordinate sheets, go to Dashboard > Actions

A screenshot of a computer

Description automatically generated

Add action (Highlight), Source is the trigger, target is the response. Target highlighting is the link between the source and target

A screenshot of a computer

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In order for the filter to apply to the dashboard, go back to the sheet and apply to all worksheets

A blue and white box with text

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Press play arrow for it to automatically continuously run and the 3rd button = fastest speed

A screenshot of a graph

Description automatically generated



Can see how a point moves with time by selecting show history and trails. If you play it, the point will slide along the trail