Tableau Tutorial

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What is Tableau?

Tableau is a visual analytics platform transforming the way we use data to solve problems empowering people and organizations to make the most of their data.

1. Load Data to preview
2. Type of fields by icon
   a. Blue icons indicate that the field is discrete.
   b. Green icons indicate that the field is continuous.
3. Fields are automatically filled with types,

   it's not always correct
   c. e.g.: x, y should be Lat, Long but filled as numeric
   d. Reportedate filled as text but not datetime

	DESCRIPTION
Abc =Abc	The field contains text values.
# =#	The field contains numeric values.
=#	The field is a calculation defined on the server.
=[calendar]	The field contains only date values.
[calendar-clock]	The field contains both date and time values.
[globe]	The field contains geographical data and has been assigned a geographic role. Use these fields when building map views. See Maps and Geographic Data Analysis in Tableau.
[globe-stack]	The field contains geographical data from an active custom geocoding file. See Geocode Locations Tableau Does Not Recognize and Plot Them on a Map.

4. Worksheet
    a. Change name
    b. Excel columns will appear on left panel
    c. Refresh data to update file
        i. Dimensions
        ii. Measures
            1. Can be converted to dimension
5. How to use tables
    a. Drag field to blank, column or row will auto generate graph
        i. Numeric field default is sum, can be changed in measure
        ii. Column and row can be switch
        iii. Select Mark Automatic or show me to change graph

b. Bar chart
    i. Drag field (e.g. Neighbourhood) to row and columns try CNT on columns
    ii. Filter: filter in row, use top by field(top)
    iii. Use MCI in colour then try on page & use customize
    iv. Show quick table calculation(e.g. CNT(Neigh))
c. Line graphic 1
    i. Columns use occurencehour (auto is sum, change to dimension)
    ii. Rows use CNT(MCI)(Colour, size)
    iii. Try add another MCI to rows, then move it to colour
d. Line graphic 2
    i. Drag table (e.g. Neighbourhood)
    ii. Columns use occurencedate(auto is year, you can change it, we use it month)
    iii. Rows use CNT(MCI)
e. Map
    i. Columns use Long, Rows use Lat(auto is avg, change to dimension)
    ii. Change Marks change Auto to Density
    iii. Select map to change background, Filters use MCI
    iv. Mapbox can be use customize

6. Dashboard
    a. Organize sheets
    b. Highlight Multi object
    c. Use filters
    d. Highlight on map and filters
    e. Dashboard change theme
        i. Format dashboard
        ii. Dashboard shading change to black
    f. Fig change theme
        i. Click fig
        ii. Format shading: worksheet change to black
        iii. Format Font : worksheet and title change to white

Visualization Challenge Presentations

- Create dashboard
- Highlight key insight
- Practice for building a story
- Showcase your skill

https://learn.weclouddata.com/programs/5/courses/db67ce25-78ce-4973-b2b7-4c6a04cc4143/weeks/991

E.g. hour by MCI