

4th Case Reconstruction -- France's History with Terrorist Attacks

Original News: Yahoo News

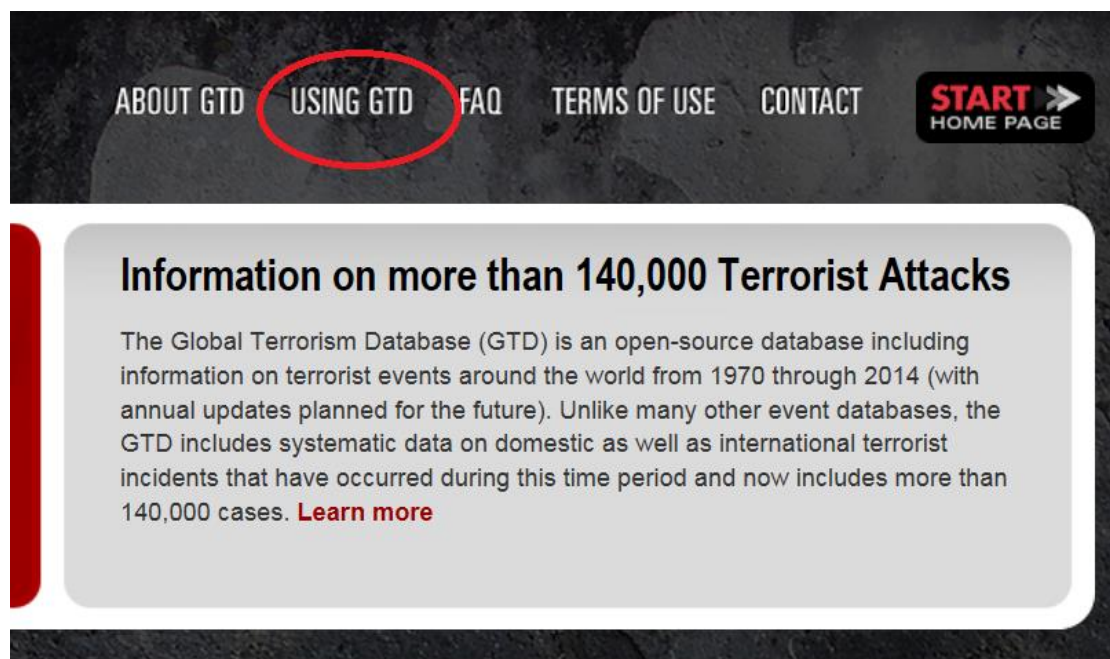
<http://news.yahoo.com/data-visualizations--france-s-history-with-terrorist-attacks-223344674.html>

Data Source: Global Terrorism Database

<http://www.start.umd.edu/gtd/>

Getting the Data:

1. Go to the source link: <http://www.start.umd.edu/gtd/>;
2. Click “Using GTD” and then “Download GTD”;
3. Fill in the forms with your personal information;
4. Click “Download GTD dataset” at the bottom of the webpage.
5. You will get the whole set of GTD data from 1970-2014 all over the world.



As we can see in the original news, there are 2 data visualizations showing “Fatalities and Injuries from Terrorist Attacks in France” and “Terrorist Attacks and Threats in France”. Let’s do it one by one.

Fatalities and Injuries from Terrorist Attacks in France

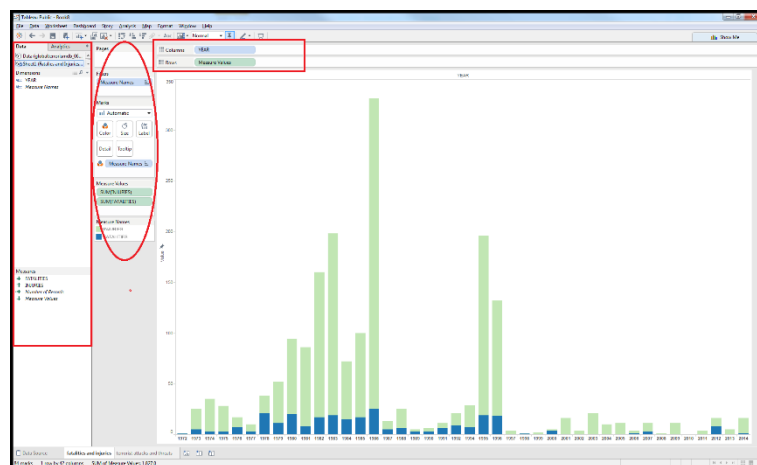
1. **Find and clean the data we want from the original data.** If we dig into the data, we would find out that the “**year**” column with year info, “**kill**” column which means “**fatalities**” and “**wound**” column which represents “**injuries**” are what

we need for this visualization. One more important thing is that “country_txt” represents countries all over the world, but what we need is only “France”, so use the **filter** to find all rows with “France”. After that, just copy and paste these 3 columns to make a new file named “Fatalities and Injuries”.

Remarks: We could also use Tableau to deal with the original data and get what we want, but as original data has massy rows and columns that are not useful to us, distracting the useful data will ease our workload.

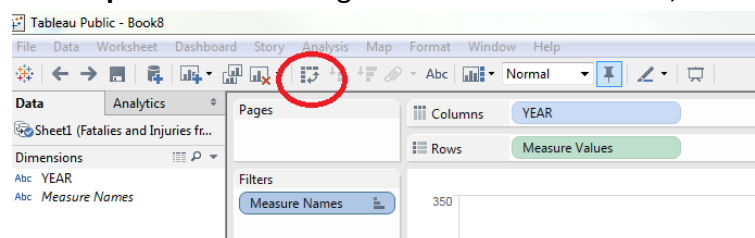
2. Use Tableau to deal with the data:

- 1) **Import data:** Remember to change the column name to “YEAR”, “FATALITIES” and “INJURIES” if you didn’t do it in Excel. And make “YEAR” column “string”.
- 2) **Drag action:** Tableau is a very powerful and easy tool for us to visualize data in various format, but the order of actions you do determines the final result. So please do as follows:
 - a) Drag “YEAR” to “Columns” ;
 - b) Drag “Measure Values” in “Measures” card to “Rows”, you will see that sum of “FATALITIS” and “INJURIES” both appear in the “Measure Values” card;
 - c) It’s time to use different colors to distinguish the “FATALIES” and “INJURIES”, so drag “Measure Names” to “Color” in the “Marks” card.



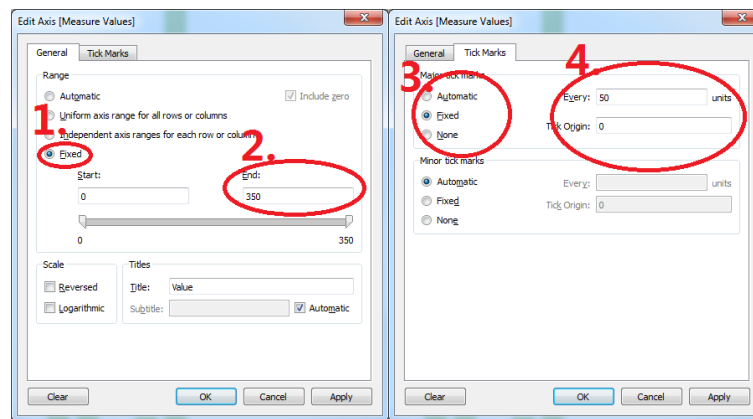
3) Modify the chart:

- a) Click “swap” button to change horizontal bars vertical;



- b) Right click on the Y axis, then click “Edit Axis”;

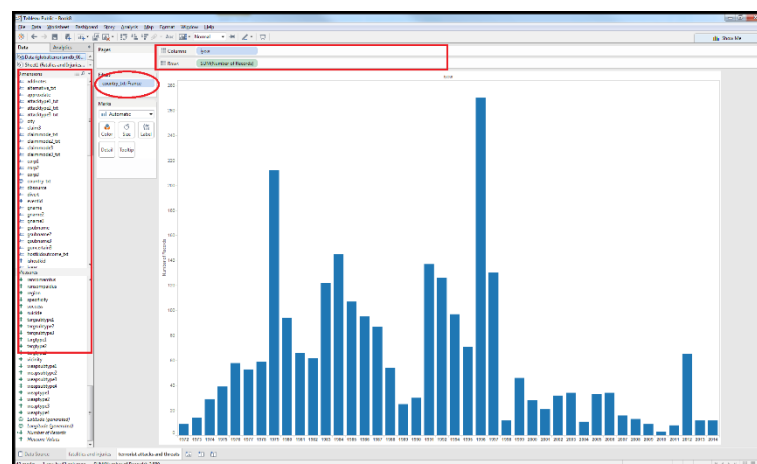
c) Then set up like follows:



- 4) **Change color:** Recalled from 3rd case reconstruction, click “color” in the “Marks” panel and then click “Edit color” to change color of the bars.
- 5) **Rename sheet 1:** name the sheet “fatalities and injuries”.

Terrorist Attacks and Threats in France

1. Add a new sheet, name it “Terrorist attacks and threats”;
2. Click “Data” and “New data source” to import the original data;
3. Click “Update now” if the button appears, if not, ignore this step;
4. Make “iyear” column “string”, the original dataset is large, you may need to wait for a few minutes to update;
5. Go to the sheet you just created;
6. Drag “iyear” in the “Dimensions” panel to “Rows”;
7. Drag “Number of Records” in “Measures” panel to “Columns”;
8. Drag “country_txt” in “Dimensions” panel to “Filters” card, choose “France”.
9. Click “swap” to exchange x and y axis.



Publish your story

Recall from 3rd case reconstruction, create a new story and then save it to Tableau public.