

UNCLASSIFIED, P1

Tableau Essentials II | Exercise 13: GTD Filter Actions

Exercise 13: GTD Filter Actions Custom Dashboard

Objectives

- 1. Build a custom dashboard for global terrorist activity from 1970-2010
- 2. Learn how to link vizzes together with highlighting and filter actions to make the dashboard more compelling to the end user

Build a Custom Dashboard

Open the **Exercise 13 GTD Filter Actions** Starter workbook. The data for this exercise comes from the Global Terrorism Database (GTD), where each row represents a terrorist event that occurred between 1970 and present day. First, build the following dashboard called 'Trends in Terrorist Activity' using the created vizzes, 'Attacks', 'Fatalities', 'Regions' and 'Subregions'. Use the dashboard tools and techniques you learned in Tableau Essentials I to build the following dashboard (*hint: use horizontal & vertical objects and the format pane*) :



Apogee Integration LLC • 14900 Conference Center Drive, Suite 225, Chantilly, Virginia 20151 (o): 703.636-2828 • (f): 703.890-2388 • info@apogeeintegration.com

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Tableau Essentials II | Exercise 13: GTD Filter Actions

Dashboard Actions

In this next section you will increase the usefulness of the dashboard you've created by linking the visualizations together using filter and highlighting actions. Using sheets as controls in this way can make a dashboard more compelling for the end user. The primary goal is to use the bar charts on the right of the dashboard to filter the two main vizzes. Follow the steps to apply the following actions:

- Regions bar chart should:
 - Filter the main visualizations
 - Highlight the subcategory chart
- Sub-Regions bar chart should:
 - Highlight the Attacks visualization
 - Filter the Fatalities visualization
- 1. Let's create the filter actions first. Under the Dashboard Menu, select 'Actions...' and select the 'Add Action > Filter'.

Actions					
Connect sheets to e actions and Highligh	external web resourc t actions.	es using URL ac	tions, or to other sh	eets in the same work	book using Filter
Name	^	Run On	Source	Fields	
Add Action >				Edit	Remove
Show actions fo	r all sheets in this wo	rkbook		ОК	Cancel

2. Next, in the Edit Filter Action dialogue box, name the filter action 'Regions Filter Main Vizzes' and choose the following options for Source Sheets, Target Sheets and Target Filters:



Edit Filter Action		×
Name: Regions Filter Main V Source Sheets	lizzes	Þ
 ☐ Trends in Terrorist Events ☐ Attacks ☐ Fatalities ☑ Regions ☐ Subregions 	\$	Run action on: Hover Select Run on single select only
Target Sheets Image: Trends in Terrorist Events Image: Attacks Image: Attacks Image: Fatalities Regions Image: Subregions		Clearing the selection will: Cleave the filter Show all values Exclude all values
Target Filters Selected Fields 	All Fields	
Source Field	Target Field	Target Data Source
Add Filter		Edit Remove

- 3. When you are finished, click OK and check your filter action is working. Select any of the Regions from the bar chart on the right to see that your main vizzes are filtered.
- 4. Next, create the Sub-Regions filter in the same way, but this time only filtering the Fatalities viz:



Edit Filter Action		×
Name: Sub-Regions Fataliti	es	Þ
Trends in Terrorist Events		Run action on:
Fatalities Regions Subregions		K Select
		Run on single select only
Target Sheets		
Trends in Terrorist Event	s v	Clearing the selection will:
Attacks Fatalities Regions		Cleave the inter Show all values Exclude all values
Subregions		
Target Filters	All Fields	
Source Field	Target Field	Target Data Source
Add Filter		Edit Remove
		OK Cancel

5. Next, let's create our highlight filters. First, create a highlight filer so that clicking on the Sub-Regions viz will highlight the Attacks viz:



Edit Highlight Action	×			
Name: Sub-Regions highlight Attacks				
Source Sheets				
\boxplus Trends in Terrorist Events \sim	Run action on:			
Attacks	R Hover			
Fatalities	🏷 Select			
Subregions	🖏 Menu			
Target Sheets				
\blacksquare Trends in Terrorist Events \sim				
Attacks Fatalities Regions Subregions				
Terrettekkelere				
O Dates and Times Major Region Region				
All Fields				
[OK Cancel			

6. Next, create a highlight action so that the Attacks viz and the Fatalities viz highlight each other. Notice that for this highlight action, the Target Highlighting should only be for the Region field:



Edit Highlight Action	×			
Name: Attacks and Fatalities highlight each other				
Source Sheets				
Trends in Terrorist Events				
Attacks				
Fatalities				
Subregions				
Target Sheets				
\boxplus Trends in Terrorist Events \checkmark				
Attacks Fatalities Regions				
Subregions				
Target Highlighting				
 Selected Fields Dates and Times Region 				
O All Fields				
OK	Cancel			

7. Finally, create a highlight action so that Regions will highlight the Sub-Regions that belong to the selection Region:





Edit Highlight Action	×		
Name: Regions highlight Sub-Regions			
Source Sheets			
☐ Trends in Terrorist Events ~	Run action on:		
Attacks	Rover Rover		
Fatalities	🏷 Select		
Subregions			
	ч ₂ Menu		
Target Sheets			
🗄 Trends in Terrorist Events 🗸 🗸			
Attacks			
Fatalities Regions			
Transfer to the transfer to th	1		
Dates and Times			
All Fields			
r	OK Cancel		
L	Cancel		

8. Finally, check that all your actions are applied properly to your dashboard!