Unlocking Key Metrics & Patterns using Grafana

20 Sept. 2024





Presenter



Syed Usman Ahmad Sr. Developer Advocate

About me

What I do?

My previous roles?

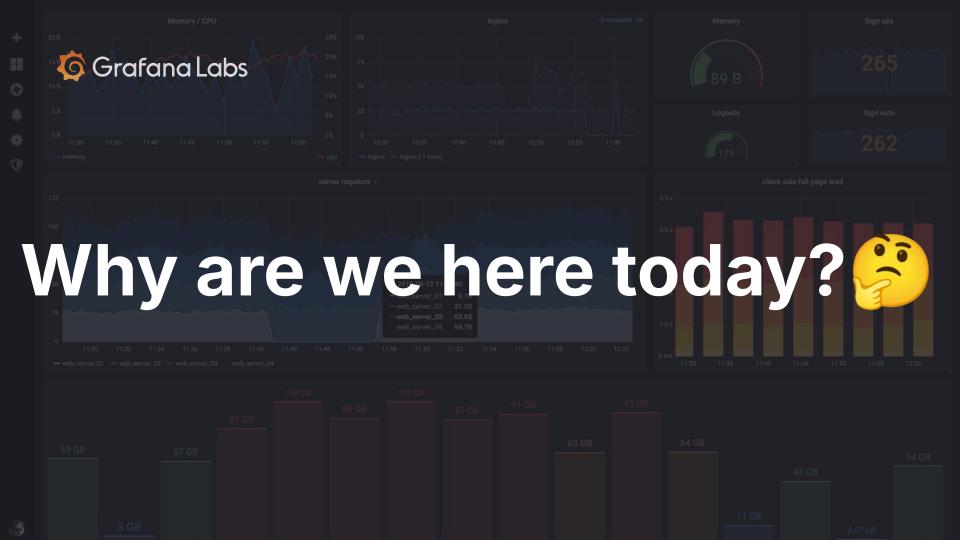
What I do beside work?



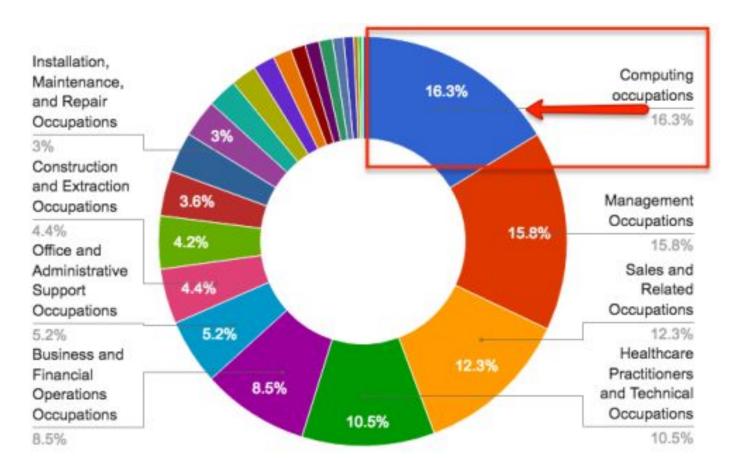
github.com/usmangt



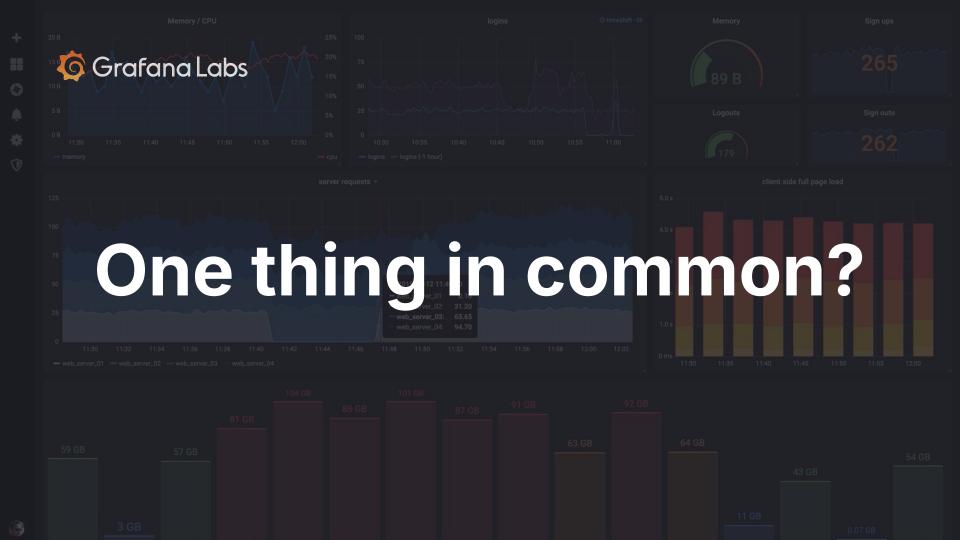




Market Reference















2024 survey how many users learn to use excel sheets

News







People also ask :

Videos

Images

What percentage of people have received training on spreadsheets?

Books



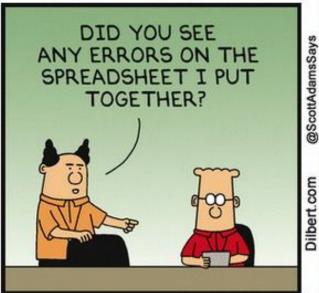
Tools

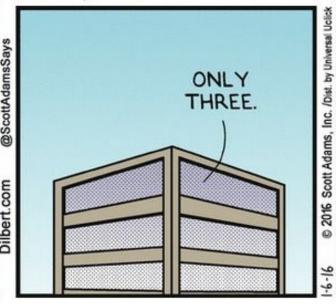
Only **48%** of people have ever received any formal Excel training. People need help from colleagues twice per week with an Excel issue. The average Excel problem takes 8 1/2 minutes to fix on average. 11% of people think they are Excel beginners. 6 Mar 2022

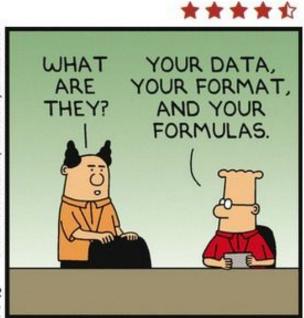
: More

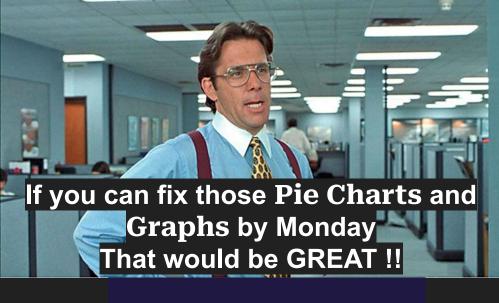
A real example

Wednesday January 06, 2016 Three Problems With Spreadsheet



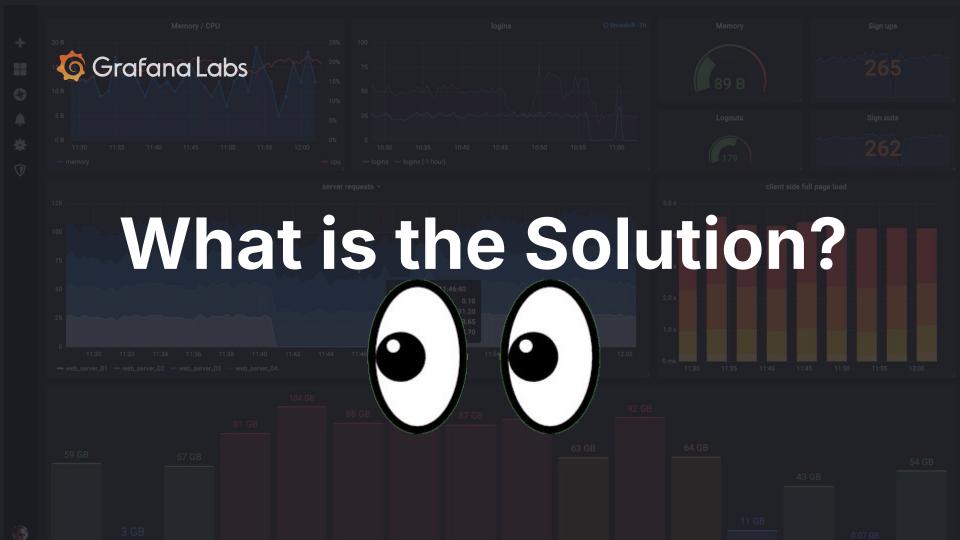


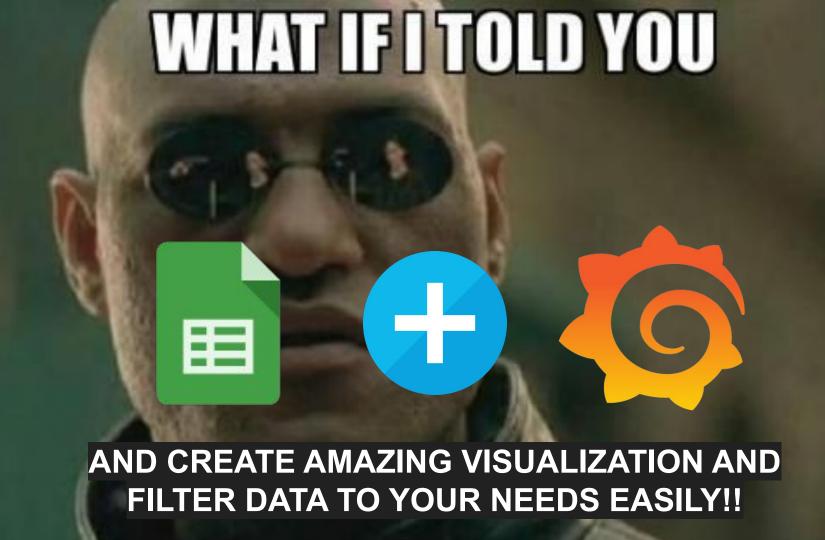












Using Grafana

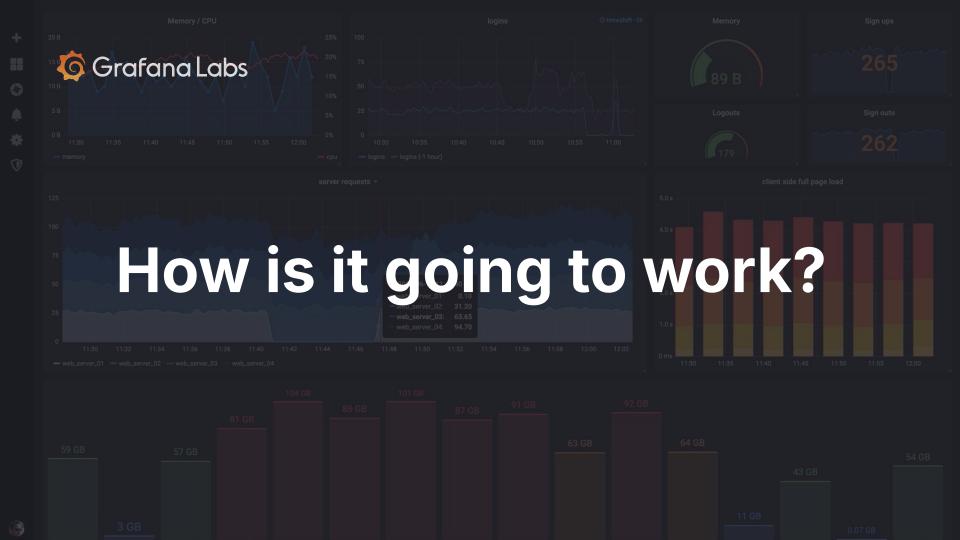
- Available in many flavour
- Various Visualisation formats
- Connect to a Data source



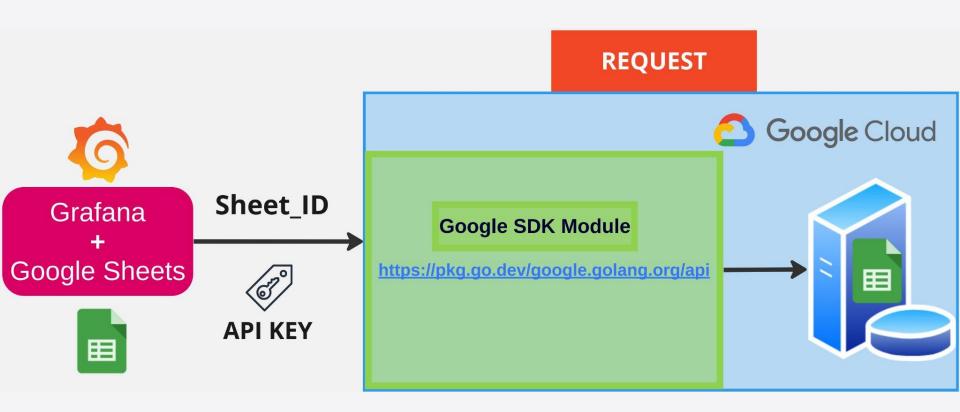
Google Sheets Data source Plugin

- Available in all Grafana versions
- Support various Visualisation formats
- Easy to Setup & Integrate

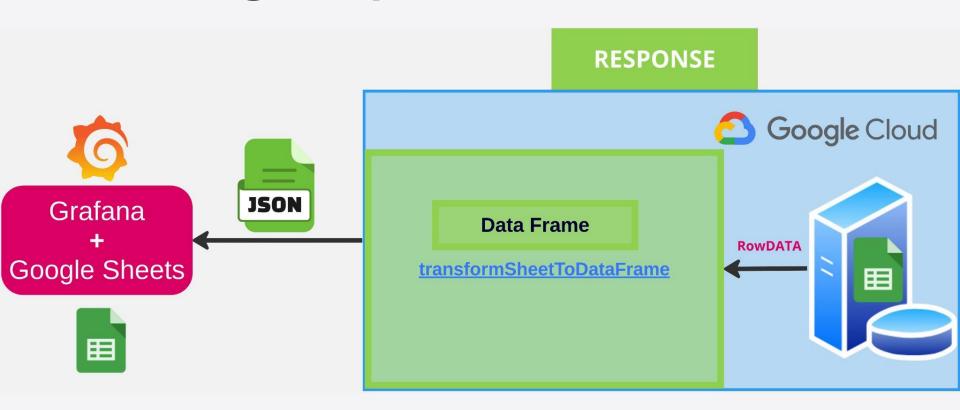


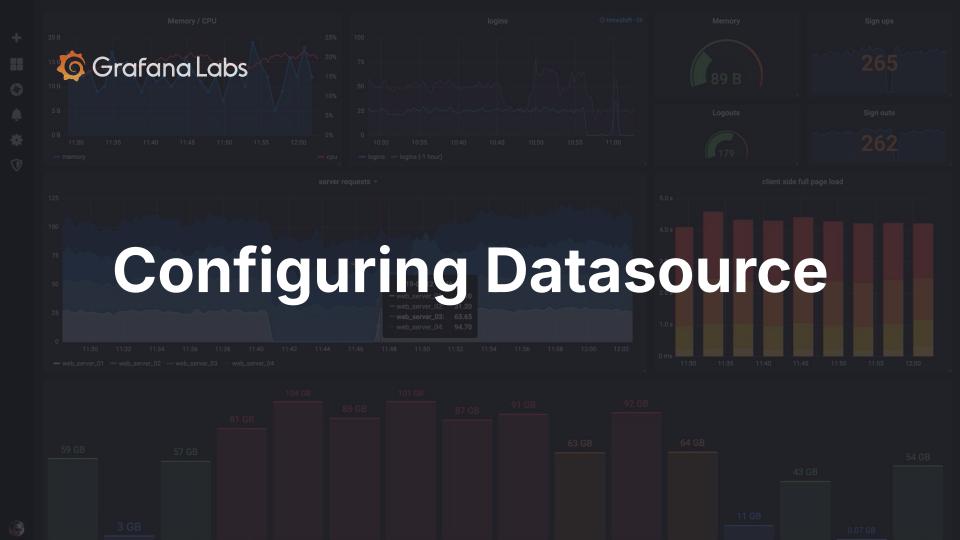


Sending Request

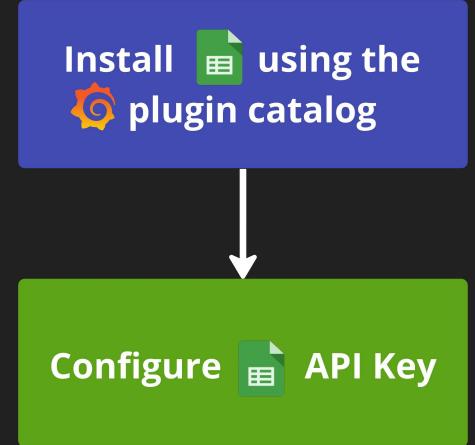


Receiving Response

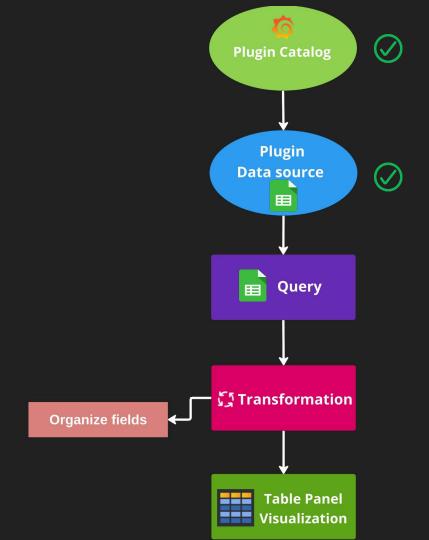




2 Step process









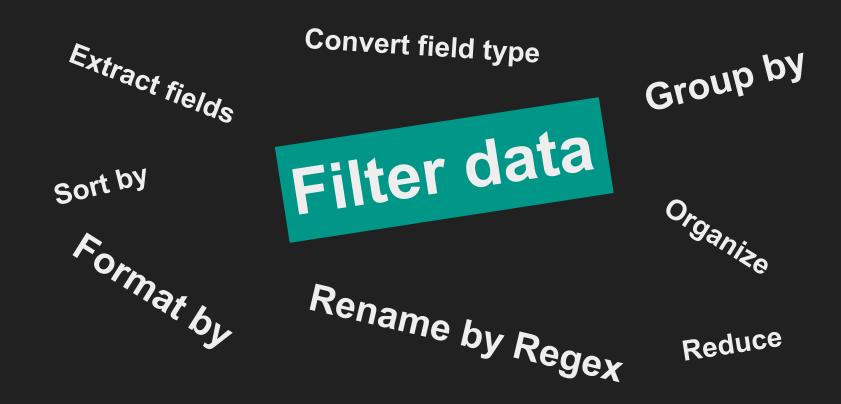


Grafana Transformation

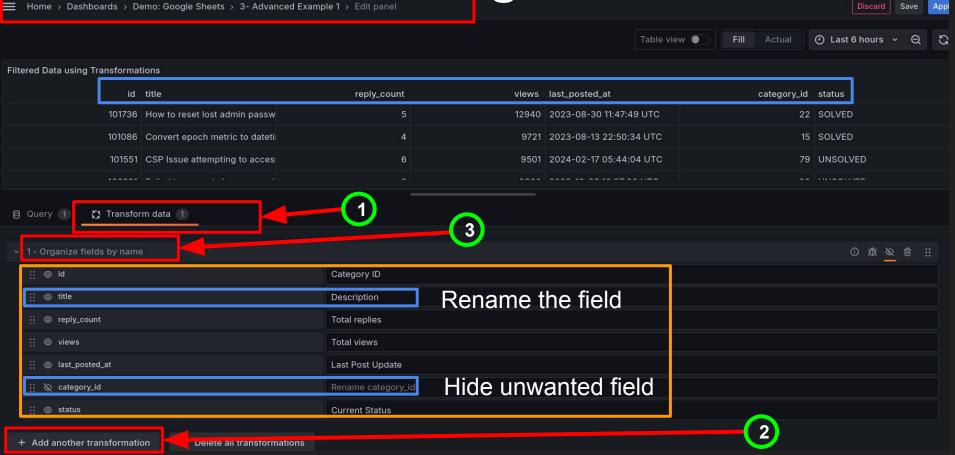
- A powerful way to manipulate data
- 2 Happens before the visualization

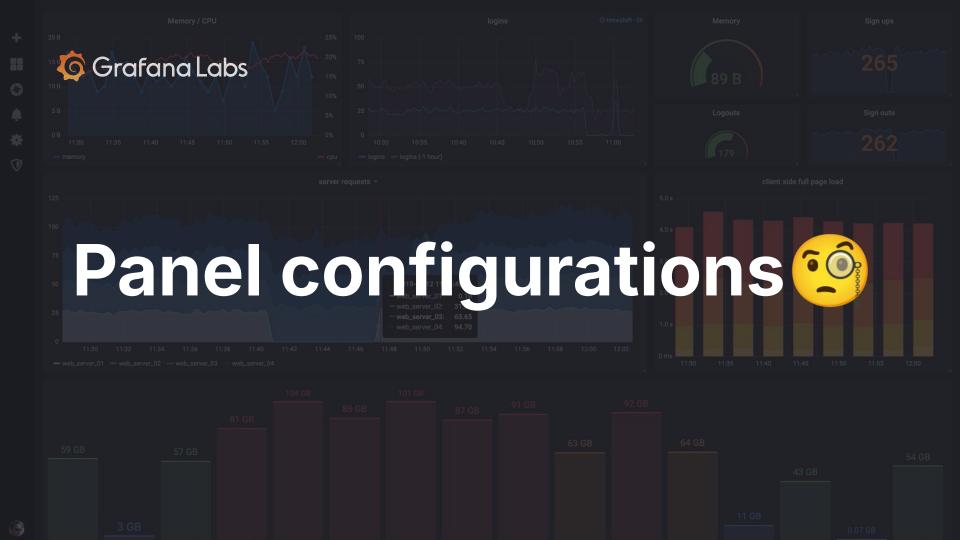


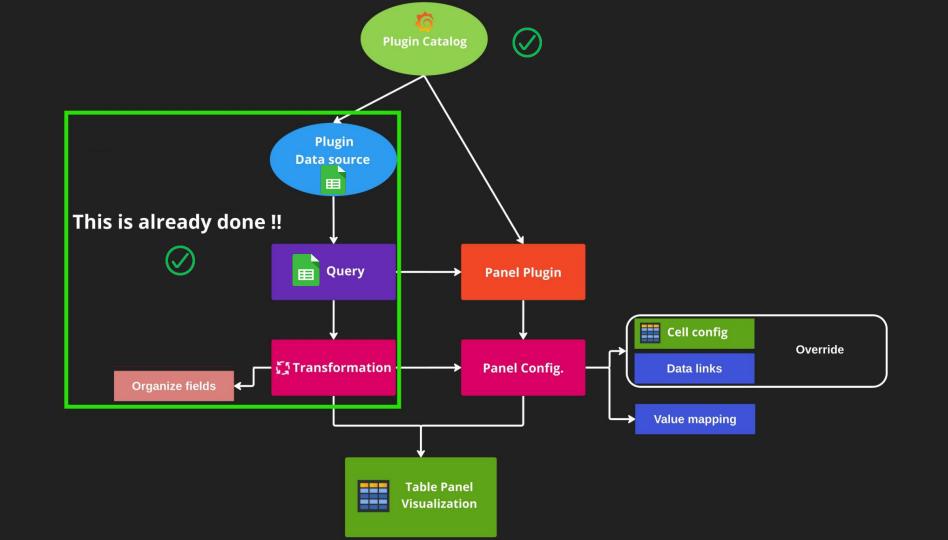
Transformation



Transformation - Organize fields







Grafana Override Function

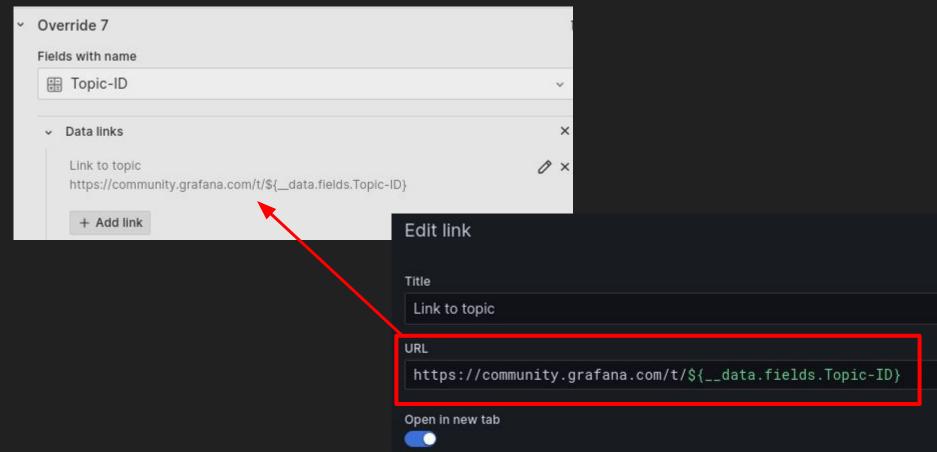
- Allow you to customize visualization settings for specific fields or series
- Lets you define multiple options for how that field is displayed

1 Using Override - Cell type

101736	How to reset lost admin pass	5	12940	2023-08-30 11:47:49 UTC	22	SOLVED
101086	Convert epoch metric to date	4	9721	2023-08-13 22:50:34 UTC	15	SOLVED
101551	CSP Issue attempting to acce	6	9501	2024-02-17 05:44:04 UTC	79	UNSOLVED
106291	Failed to upgrade legacy que	2	9362	2023-10-25 16:57:32 UTC	33	UNSOLVED
100264	Make your own custom 'Date	4	7933	2023-08-15 17:21:41 UTC	61	SOLVED
105976	Change dashboard date form	3	5352	2023-10-19 18:53:19 UTC	20	SOLVED
103216	Public key issue again with a	0	3865	2023-09-11 16:10:47 UTC	18	UNSOLVED



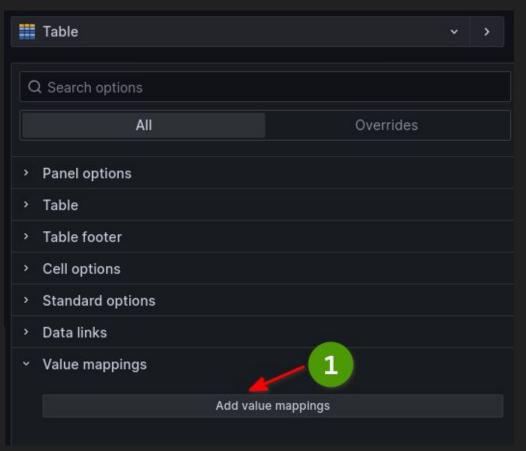
2 Using Override - Data links



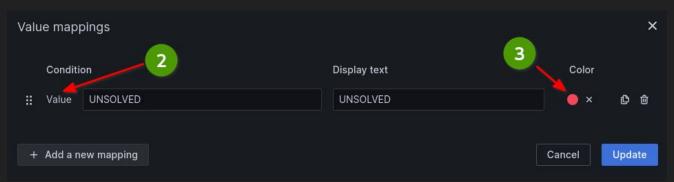
Using Override - Data links

Panel Title Link to the post									
Topic-ID	Title	Reply count	Total views	Last viewed	Status				
87028	Database is locked	1	1116	2023-05-13T10:37:16.185Z	UNSOLVED				
88090	How can I get CPU usage	7	824	2023-06-30T07:46:12.239Z	UNSOLVED				
86940	How do you sum all like-n	2	657	2023-05-03T15:38:15.557Z	SOLVED				
90396	Failed to evaluate queries	2	598	2023-07-28T11:32:30.758Z	UNSOLVED				
89538	Influxdb2: Combining last	7	592	2023-06-21T16:33:38.259Z	SOLVED				
88901	How to change the labels	19	530	2023-06-07T12:04:06.496Z	UNSOLVED				

Using Value mapping



Using Value mapping



Topic-ID	Title	Reply count	Total views	Last viewed	Status
87028	Database is locked	1	1120	2023-05-13T10:37:16.185Z	UNSOLVED
88090	How can I get CPU usage for multiple servers withi	7	826	2023-06-30T07:46:12.239Z	UNSOLVED
86940	How do you sum all like-named rows?	2	658	2023-05-03T15:38:15.557Z	SOLVED
90396	Failed to evaluate queries and expressions: input d	2	600	2023-07-28T11:32:30.758Z	UNSOLVED
89538	Influxdb2: Combining last + sum to get weekly valu	7	596	2023-06-21T16:33:38.259Z	SOLVED
88901	How to change the labels and color of the gauge p	19	534	2023-06-07T12:04:06.496Z	UNSOLVED
87835	Found duplicate series for match group	0	519	2023-06-21T10:17:51.155Z	UNSOLVED
86860	Need to set variable in same dashboard when click	6	509	2023-05-02T20:21:19.966Z	SOLVED



Grafana Dashboard Variables

- Also known as templating
- Create interactive and dynamic dashboards
- AVOIDS Duplication!!



Dynamic dashboard variables

Data source Global Ad-hoc filters Custom Interval Constant Chained Variables Query **Text Box**





Grafana Annotations

- Mark points on a visualization with events
- Visualized as vertical lines and icons



Annotation



Takeaways

Centralized Visibility



Fits well in your Org.

Cross-Platform support



Future Improvements

Support Alerting

Support from YOU!!



Want to get involved?

To report bugs, feature-request:



GitHub repo

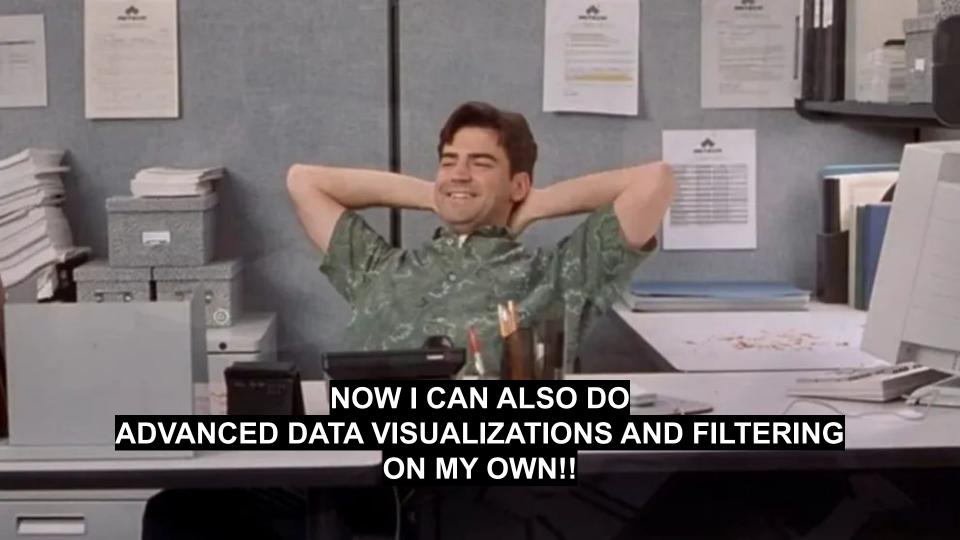
grafana/google-sheets-datasource

- Other useful resources:
 - Slack channel #grafana
 - Community forum











Thanks for participating!

Contact me:



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