Creating a Collection of Panels

CHAOSSCon - Brussels- Feb. 1st, 2019

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Image: https://www.pexels.com/photo/beige-queen-folder-1181776/



CTURE SOUNDTRACK



/me



My name is **Alberto** Pérez

Part of Bitergia's **Analytics** Team

Stuff related to **data**, **metrics** & **panels**



More info at http://garciaplaza.com

/me



@alpgarcia

<u>Bitergia</u>

Help us in our journey building panels!



Outline

From **Panels** to **Collections**

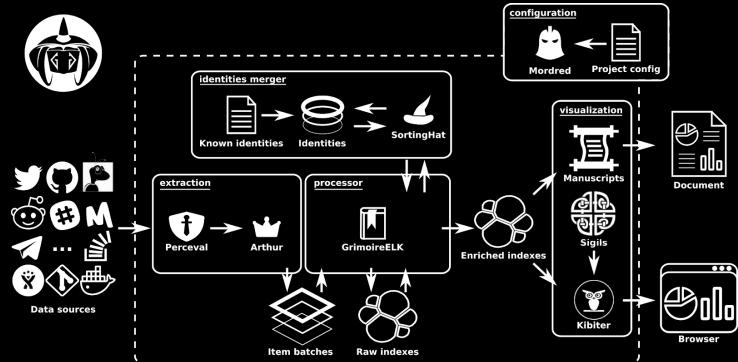
Where are GrimoireLab panels?

Motivation

Collections

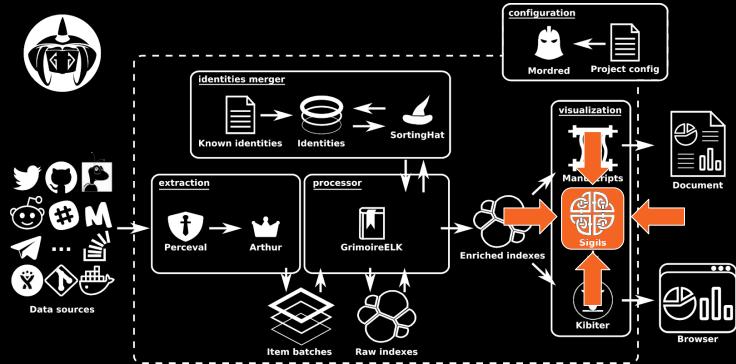
CHAOSS Collection & more

/where





/where





Motivation

Current state of things in Sigils

What do we need to improve?

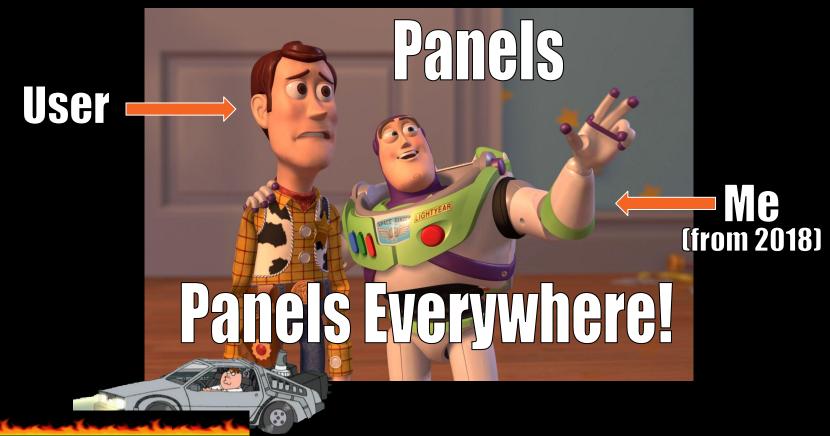
Are there known issues?





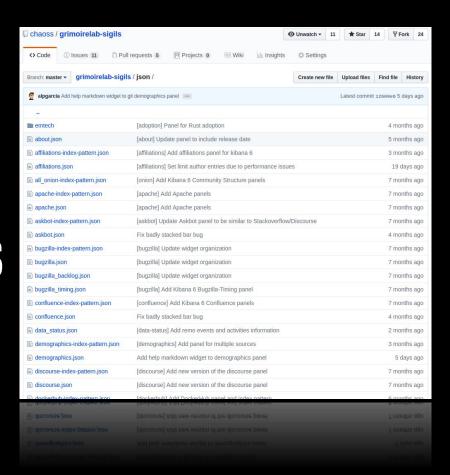






<u>Bitergia</u>

many panels





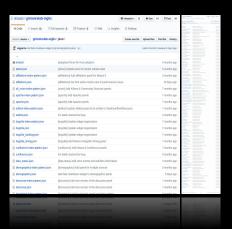
Too many panels

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- Too many panels
 - Overwhelming bunch of files





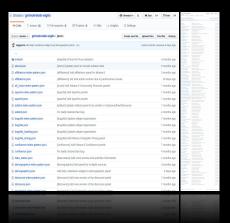
Difficult to find a particular panel or set of panels



- Too many panels
 - Overwhelming bunch of files







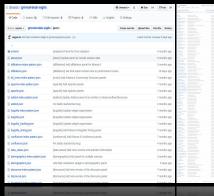
Difficult to find a particular panel or set of panels



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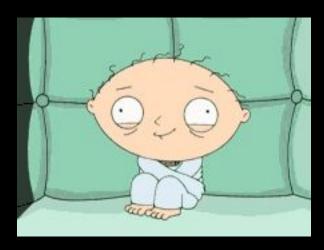


Difficult to find a particular panel or set of panels

Difficult to define and share a set of panels



I didn't touch that panel...



...but it's been modified!!



Overview





- Self-contained panels
 - visualizations
 - searches
 - index patterns



Duplicated widgets



Import could unexpectedly modify other panels



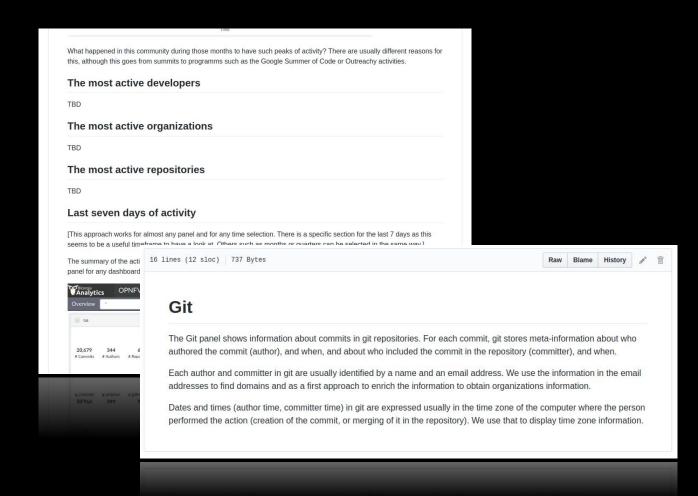
Documentation?



Documentation?



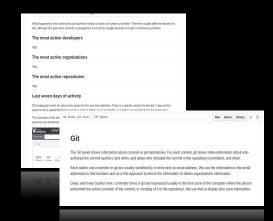






- Lack of documentation
 - Undocumented panels
 - Poorly documented ones





Use cases behind panels are unknown



Collections

Possible solutions for known problems

Too many panels together

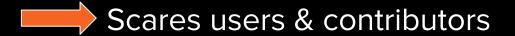
Self-contained panels with duplicated widgets

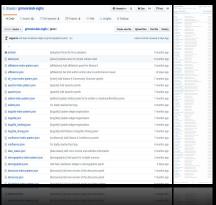
Lack of documentation

/collections

- Too many panels
 - Overwhelming bunch of files







Let's separate panels into smaller sets

Use your own repo if you want



/collections

- Self-contained panels
 - visualizations
 - searches
 - index patterns



Duplicated widgets



Export widgets in separate files (WIP)

Store widgets only once per collection

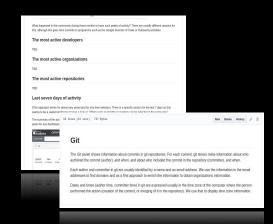


/collections

- Lack of documentation
 - Undocumented panels
 - Poorly documented ones



Reduces usability



Use Jekyll for documentation

Each panel must have a MarkDown page



Documentation?





Staring at you





Summarizing, it's time for tidying up





How to contribute?

- Panel(s) to an existing collection
 - Get some GrimoireLab data
 - Follow guidelines at

https://github.com/chaoss/grimoirelab-sigils/blob/master/CONTRIBUTING.md

How to Contribute

Please follow these guidelines before sending your contribution.

Recommended panel contents

You are free of create whatever panel you may want. Following recommendations are based on our experience and aim at creating simple panels that don't overwhelm users at first glance:

- On each panel, it should be possible to filter mainly by project, and repository. For those that are related with several
 data sources, it might useful to filter by data source, or have a panel for each data source.
- No more than 5 widgets, to avoid overwhelming the user.
- A markdown widget below with some basic explanations about what we are looking at (panel definition) and a link to
 documentation page (the one described at Adding or updating documentation section).

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How to contribute?

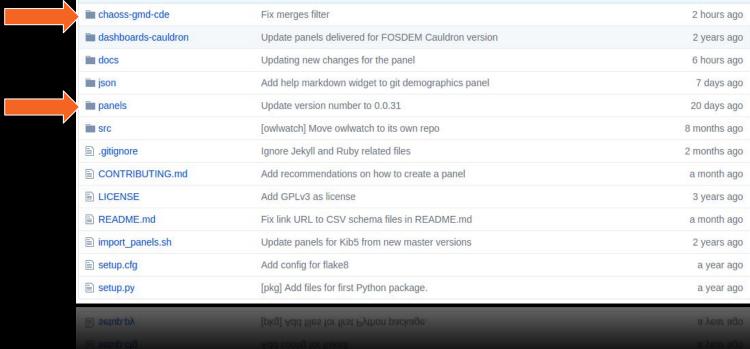
- Create your own collection
 - Control everything inside
 - You could add tests, Cl...
 - You can ask to include it in GrimoireLab
 - You can share it from your own repo
 - Send us a link!





Collection Structure

- JSON files

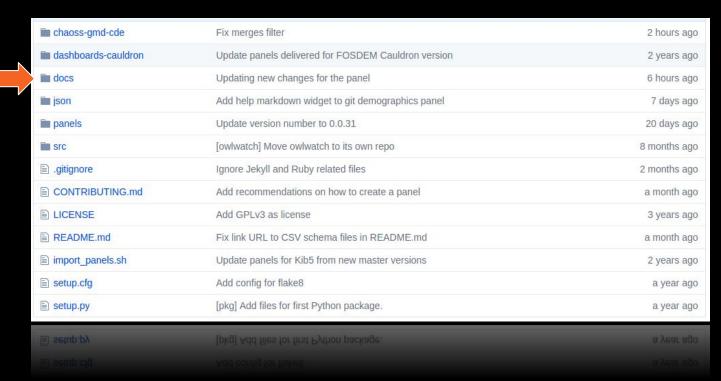






Collection Structure

Documentation files

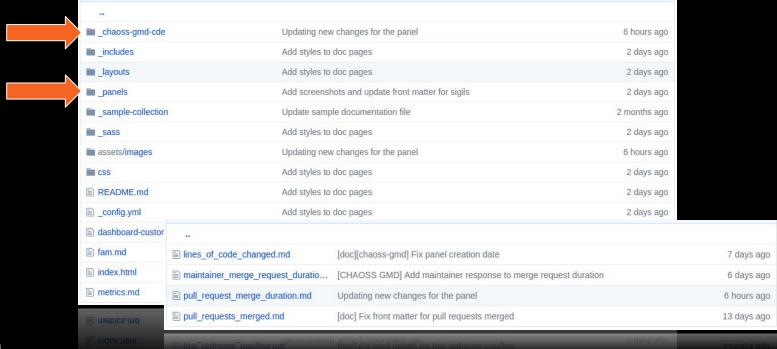






Collection Structure

Documentation files





Tools: Archimedes



Export/Import (WIP)

Name		Last commit		Last update	
le.					
index-patterns		Add 'Engagement: Contributions Overview'		5 days ago	
■ visualizations		Add Contributors Growth panel		1 day ago	
dashboard_4434c9a0-18dd-11e9-ba47-d5cb		Add Contributors Growth panel		1 day ago	
ashboard_69208f40-18cb-11e9-ba47-d5cb		Add efficiency timing overview panel to OSPO		6 days ago	
à dashboard_6e0e2900-18c0-11e9-872f-e170		Add Organizational Diversity by Domains panel		5 days ago	
à dashboard_ab68fe20-17f2-11e9-872f-e1701		Add Organizational Diversity panel		5 days ago	
dashboard_b7b169e0-14e3-11e9-8aa	Name		Last commit		Last up
■ dashboard_b7b169e0-14e3-11e9-8aa					
	index-pattern_0211efb0-14ca-11e9-8aac-ef7		Add 'Engagement:	Contributions Overview'	5 days
	index-pat	tern_a04a4150-18bc-11e9-872f-e1	Add efficiency timi	ing overview panel to OSPO	6 days



Tools: Jekyll

- Available in GitHub & GitLab
 - Front matter: meta info

```
title: Lines of Code Changed
description: panel focused on the ...
author: Miguel-Ángel Fernández Sánchez
created at: 2019-01-16
grimoirelab version: 0.2.3
screenshot: lines of code chaged.png
layout: panel
```



Tools: Jekyll

- Available in GitHub & GitLab
 - Front matter: used for rendering pages

```
title: Lines of Code Changed
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layout: panel
```





Tools: Jekyll

Each MD is deployed as a web page

GrimoireLab Sigils by CHAOSS

CHAOSS GMD WG panels for Code Development

- . Lines of Code Changed: panel focused on the number of lines of code changed.
- Maintainer Response to Merge Request Duration: papel focused on the time to response after a pull request took place.

organizations, projects or repositories.

- Pull request merge duration: This panel for

• Pull Requests Merged: panel focused on t Lines of Code Changed

GrimoireLab Sigils Pane

This panel focuses on Number of lines of code changed. We based the panel on Git data.

- Community Structure: find who are your community
- Data Status: data freshness information.
- . Demographics: attraction and retention of There are some filters added by default for the whole panel
- · Gerrit Review Efficiency: efficiency closing
- Git Demographics: attraction and retention
- Git Demographics: attraction and retenti
- . NOT Merges: It ignores those commits whose number of modified files is 0 (this is, commits from

look at the magnitude of those changes with several metrics related with Git commits, specially modified

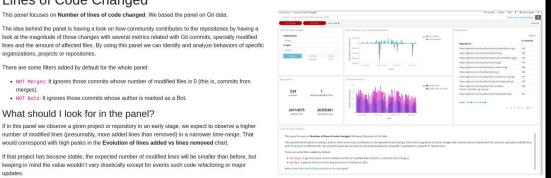
. NOT Bots: It ignores those commits whose author is marked as a Bot.

What should I look for in the panel?

If in this panel we observe a given project or repository in an early stage, we expect to observe a higher number of modified lines (presumably, more added lines than removed) in a narrower time-range. That would correspond with high peaks in the Evolution of lines added vs lines removed chart.

If that project has became stable, the expected number of modified lines will be smaller than before, but keeping in mind the value wouldn't vary drastically except for events such code refactoring or major updates

If we are looking at a project in close to its final days, we expect the number of modified lines would



decrease significantly, and we would not observe high peaks even considering wider time-ranges.

CHAOSS collection & more

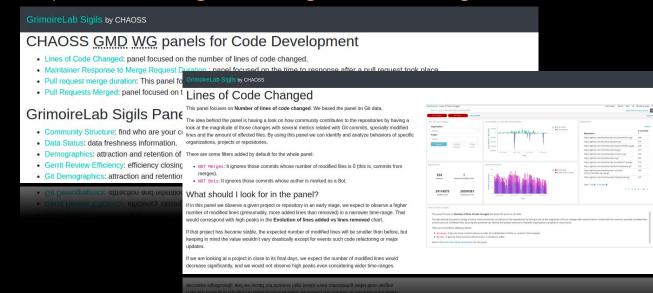
Real world examples

CHAOSS collection

New Bitergia panels

- CHAOSS GMD Code Development Efficiency
 - Available online at GrimoireLab-Sigils
 - Still growing, GSoC

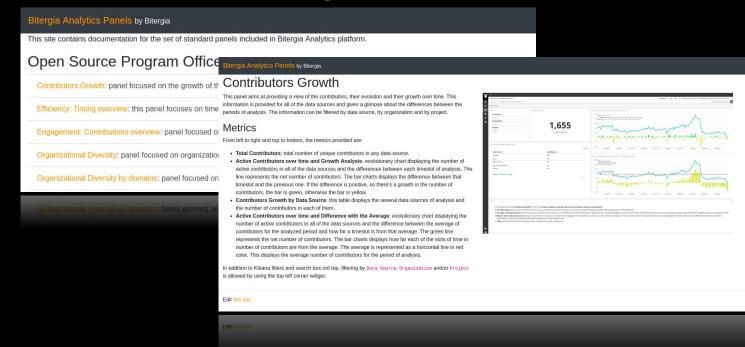
https://chaoss.github.io/grimoirelab-sigils/





/bitergia-panels

- Bitergia Analytics Panels
 - Built out of GrimoireLab-Sigils
 - Still work in progress





Final Remarks

- Building collections out of Sigils doesn't mean they are not going to be part of **GrimoireLab**

 Collections are here to ease access to the metrics you are really interested in

If you already have your panels, please consider
 make them a collection (ask us for help)



/thanks

What questions do you have?



