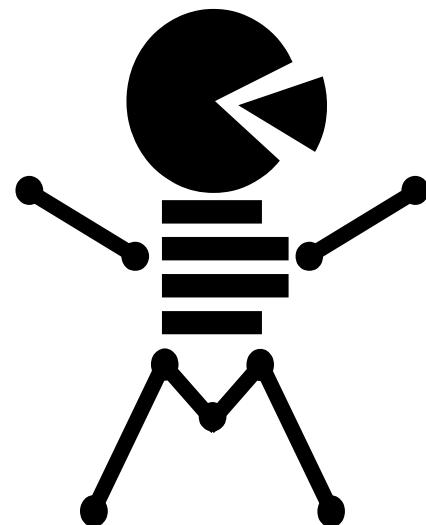


Q-DashMan

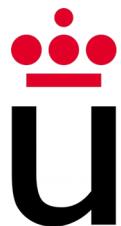
Data Visualization of Software Development



Created by Quan Zhou

Course: 2018-2019

Tutor: Dr. Jesús María González-Barahona



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Main Technologies



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Data Sources



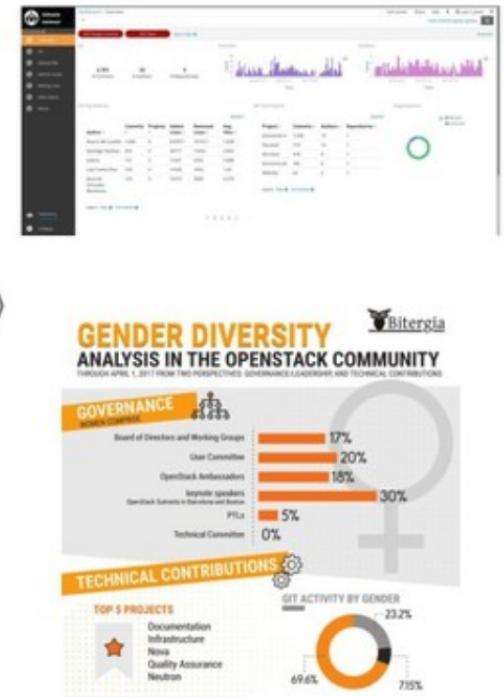
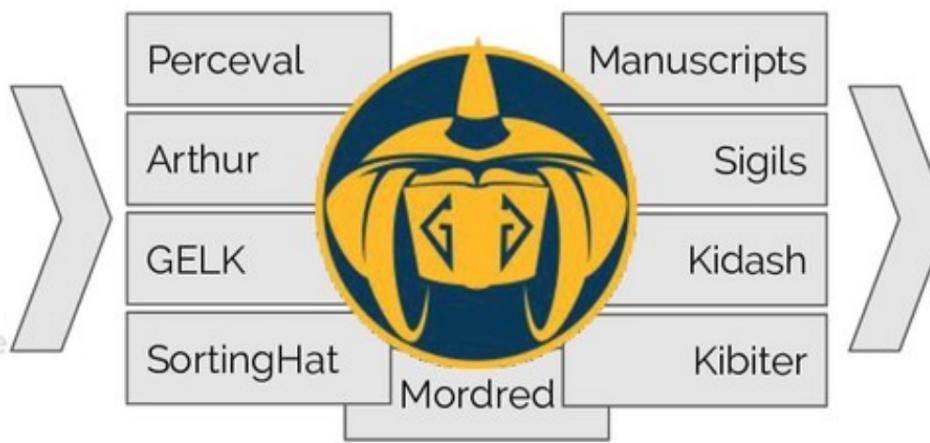
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Metrics



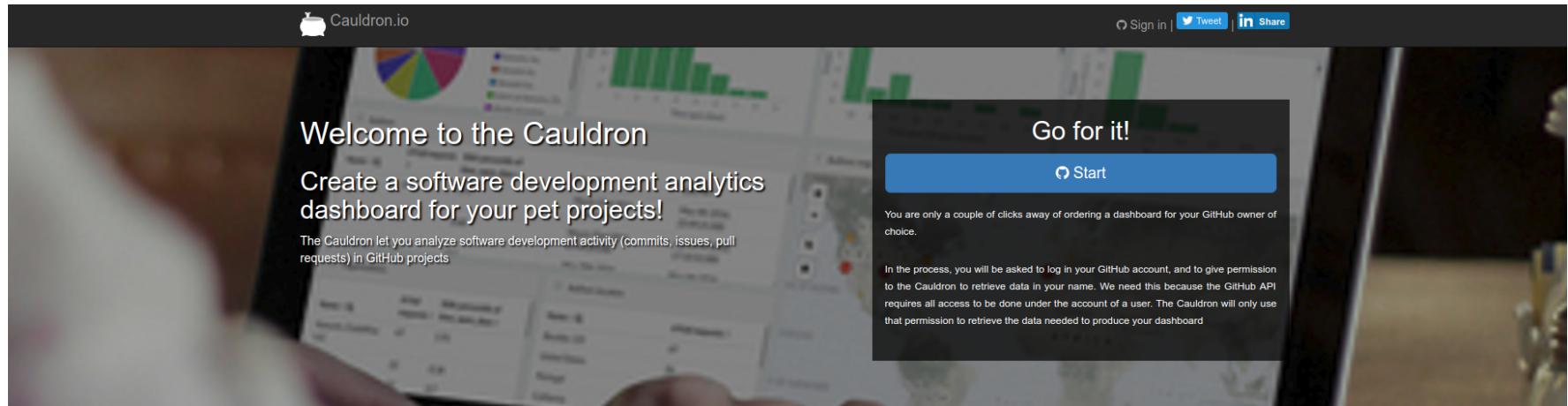
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GrimoireLab



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Cauldron



About



The *Cauldron* is a proof of concept service for analyzing activity (git commits, issues, and pull requests) in GitHub projects.

Each GitHub user may ask the Cauldron for up to five dashboards, each corresponding to a GitHub owner (user or organization).



For each of GitHub owner, the Cauldron will retrieve data from up to 30 of the most recently active projects, and produce an interactive dashboard showing overall summaries, and providing capabilities for filtering and drilling down in the details.



The Cauldron is based on the [GrimoireLab](#) toolset. All the software used to produce it is free / open source software.



The Cauldron uses the [GitHub API](#) to retrieve information about issues and pull requests. Since the access to this API is [rate-limited](#), the retrieval of the data for your dashboard may take a while. Please, be patient.

Search dashboards

Search for a project

Popular Latest All dashboards

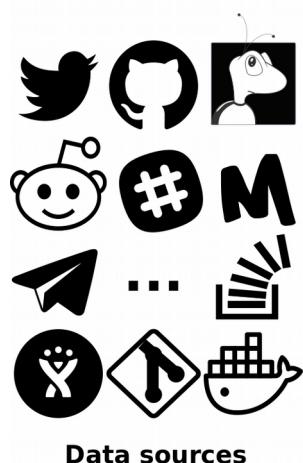
angular	
docker	
elastic	
facebook	
microsoft	



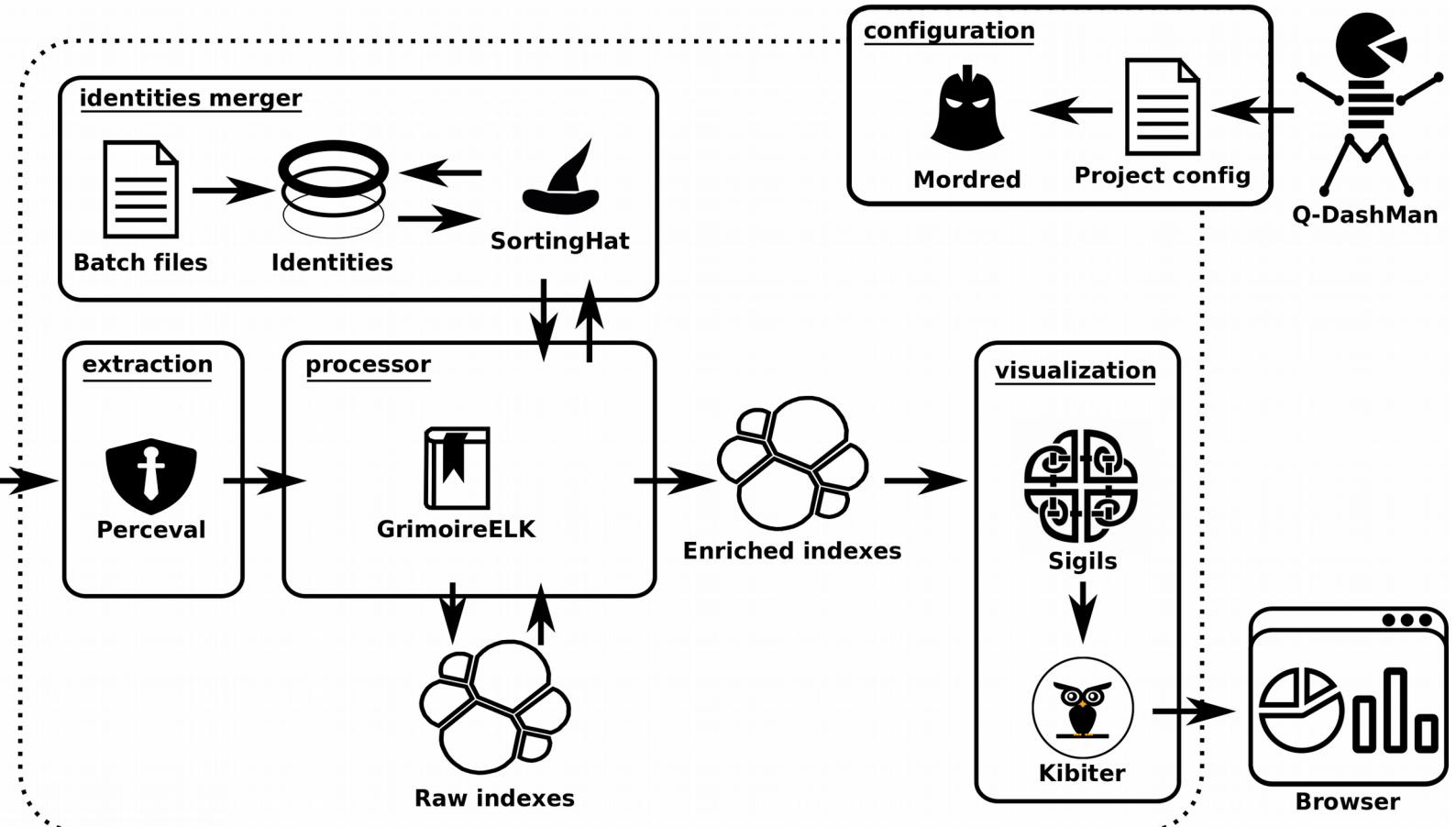
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If you want to browse more complete dashboards produced by [Bitergia](#), visit:

Q-DashMan

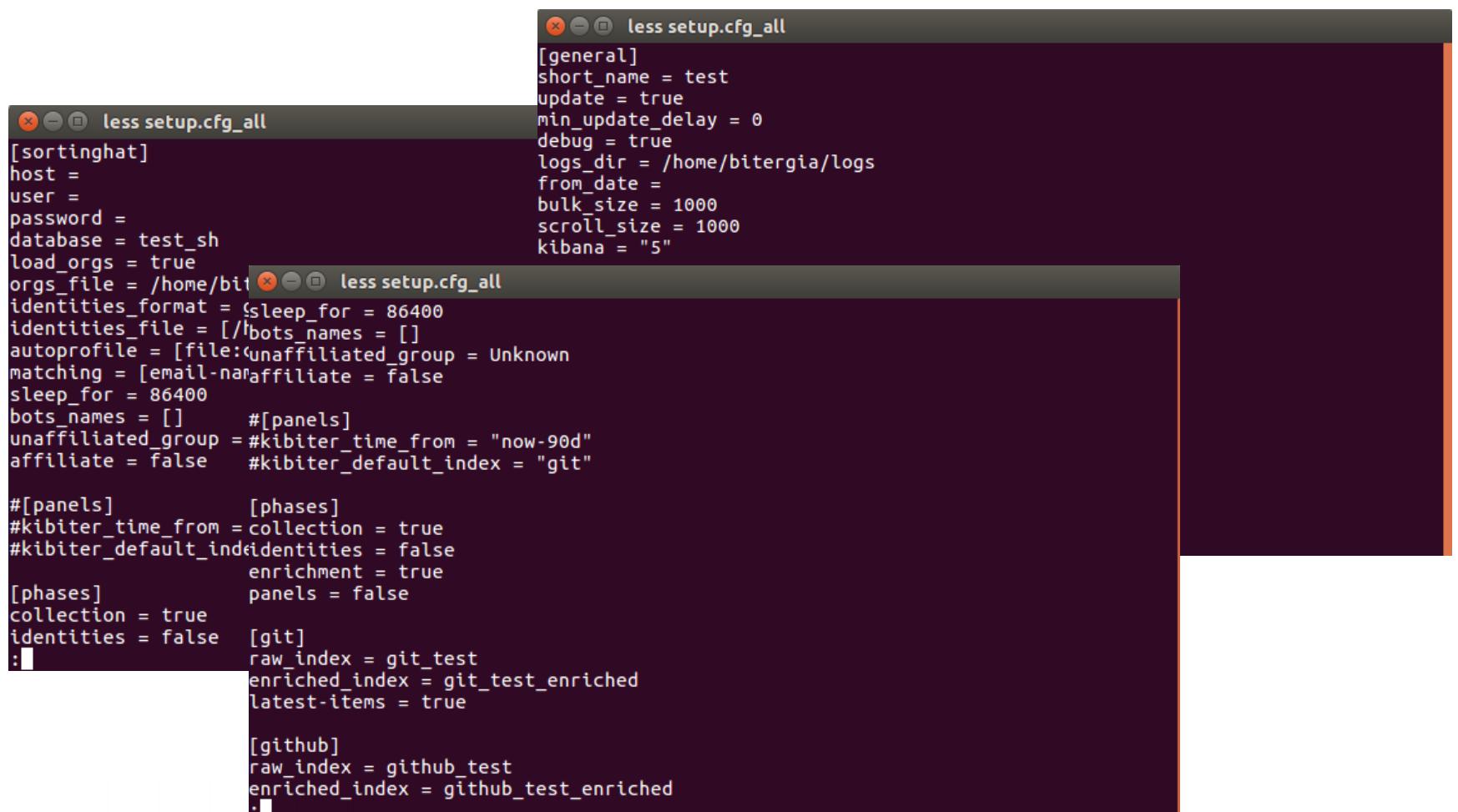


Data sources



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Shell



The image shows a terminal window with two tabs open, both titled "less setup.cfg_all". The content of the tabs is identical and displays a configuration file in INI format. The file includes sections for [general], [sortinghat], [phases], and [github]. It contains various parameters such as host, user, password, database, and various boolean and string values.

```
[general]
short_name = test
update = true
min_update_delay = 0
debug = true
logs_dir = /home/bitergia/logs
from_date =
bulk_size = 1000
scroll_size = 1000
kibana = "5"

[sortinghat]
host =
user =
password =
database = test_sh
load_orgs = true
orgs_file = /home/bitergia/.bots/names
identities_format = ${sleep_for = 86400
identities_file = [/bots/names = []
autoprofile = [file:/unaffiliated_group = Unknown
matching = [email-naraffiliate = false
sleep_for = 86400
bots_names = []      #[panels]
unaffiliated_group = #kibiter_time_from = "now-90d"
affiliate = false    #kibiter_default_index = "git"

#[panels]          [phases]
#kibiter_time_from = collection = true
#kibiter_default_index = false
#identities = false
#enrichment = true
#[phases]
collection = true
identities = false
:[#panels]          [git]
raw_index = git_test
enriched_index = git_test_enriched
latest_items = true

[github]
raw_index = github_test
enriched_index = github_test_enriched
:]
```



Projects File

Import projects.json

Choose File No file chosen

[Close](#) [Upload](#)

Add projects.json

[GitHub](#)

Organization *

Token

[Add](#)

[Slack](#)

Project *

Token *

[Add](#)

[Meetup](#)

Project *

Topic *

[Add](#)

[Manually](#)

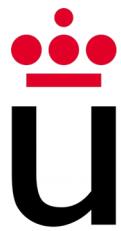
Project *

Data Source *

Repository *

[Add](#)

[Close](#)



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Set Up File

General Settings

```
[general]
short_name:
    quan
update:
    true
min_update_delay:
    720
debug:
    true
logs_dir:
    /home/bitergia/logs

[projects]
projects_file:
    /home/bitergia/conf/sources/projects.json

[es_collection]
url:
    http://elasticsearch:9200

[es_enrichment]
url:
    http://elasticsearch:9200
autorefresh:
```

Add Data Source

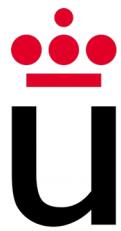
-- select a Data Source--

- Raw Index *
- Enriched Index *
- No Archive
- Api Token
- Sleep Time
- Sleep For Rate
- Studies
- Latest Items

Import setup.cfg

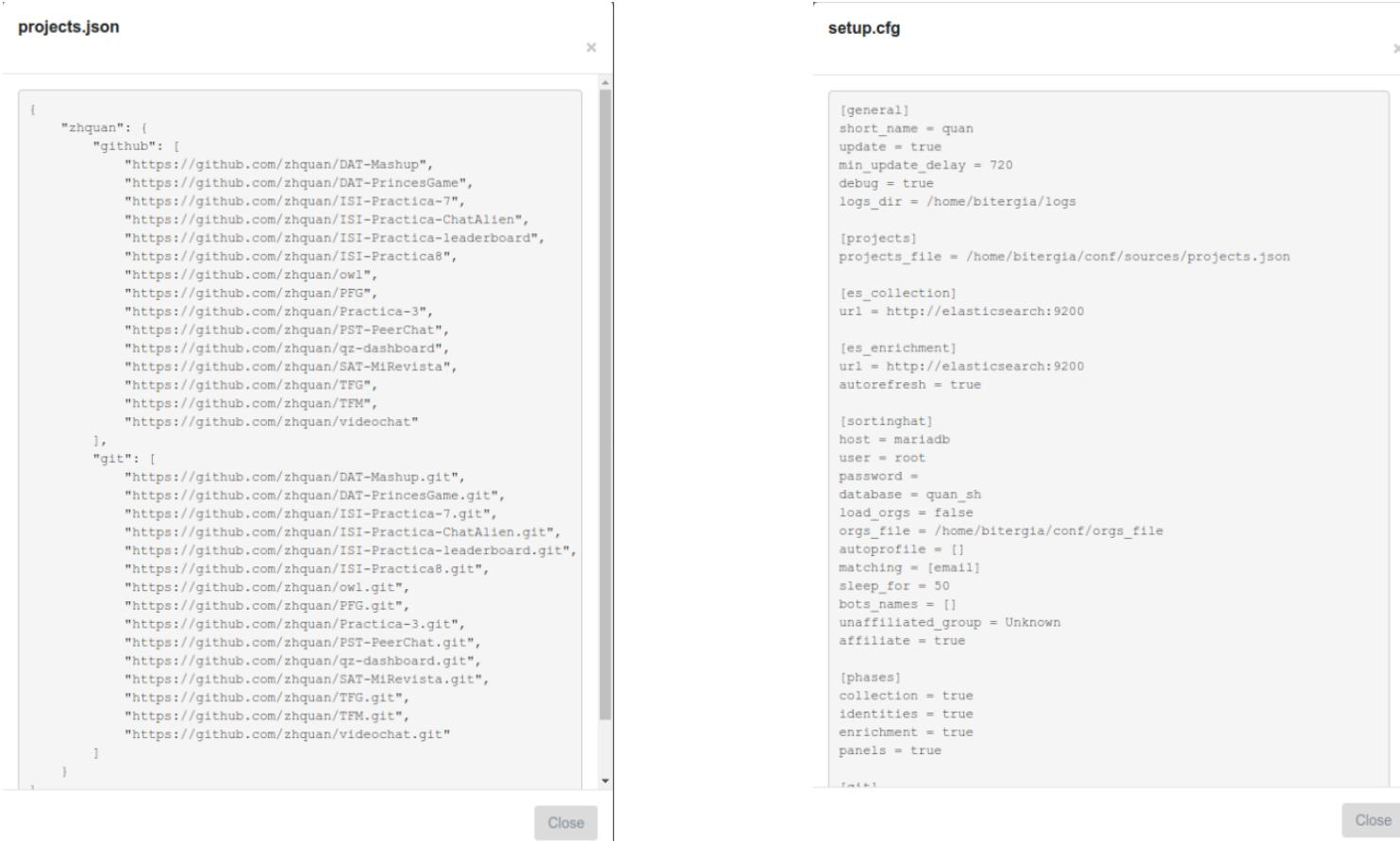
Choose File No file chosen

The image shows three overlapping modal windows. The 'General Settings' window on the left contains configuration options for a service, including fields for short_name (set to 'quan'), update (set to true), min_update_delay (set to 720), debug (set to true), logs_dir (set to /home/bitergia/logs), projects (set to /home/bitergia/conf/sources/projects.json), es_collection (set to http://elasticsearch:9200), es_enrichment (set to http://elasticsearch:9200), and autorefresh. It has 'Close' and 'Save changes' buttons at the bottom. The 'Add Data Source' window in the center lists various data source types: Raw Index, Enriched Index, No Archive, Api Token, Sleep Time, Sleep For Rate, Studies, and Latest Items. It includes a dropdown menu labeled '-- select a Data Source--'. It has 'Close' and 'Add' buttons at the bottom. The 'Import setup.cfg' window on the right has a single 'Choose File' button with the message 'No file chosen' and a 'Close' and 'Upload' button at the bottom. All three windows have an 'x' button in the top right corner.



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Show



```
projects.json
```

```
{  
    "zhquan": {  
        "github": [  
            "https://github.com/zhquan/DAT-Mashup",  
            "https://github.com/zhquan/DAT-PrincesGame",  
            "https://github.com/zhquan/ISI-Practica-7",  
            "https://github.com/zhquan/ISI-Practica-ChatAlien",  
            "https://github.com/zhquan/ISI-Practica-leaderboard",  
            "https://github.com/zhquan/ISI-Practica8",  
            "https://github.com/zhquan/owl",  
            "https://github.com/zhquan/PFG",  
            "https://github.com/zhquan/Practica-3",  
            "https://github.com/zhquan/PST-FeerChat",  
            "https://github.com/zhquan/qz-dashboard",  
            "https://github.com/zhquan/SAT-MiRevista",  
            "https://github.com/zhquan/TFG",  
            "https://github.com/zhquan/TFM",  
            "https://github.com/zhquan/videochat"  
        ],  
        "git": [  
            "https://github.com/zhquan/DAT-Mashup.git",  
            "https://github.com/zhquan/DAT-PrincesGame.git",  
            "https://github.com/zhquan/ISI-Practica-7.git",  
            "https://github.com/zhquan/ISI-Practica-ChatAlien.git",  
            "https://github.com/zhquan/ISI-Practica-leaderboard.git",  
            "https://github.com/zhquan/ISI-Practica8.git",  
            "https://github.com/zhquan/owl.git",  
            "https://github.com/zhquan/PFG.git",  
            "https://github.com/zhquan/Practica-3.git",  
            "https://github.com/zhquan/PST-FeerChat.git",  
            "https://github.com/zhquan/qz-dashboard.git",  
            "https://github.com/zhquan/SAT-MiRevista.git",  
            "https://github.com/zhquan/TFG.git",  
            "https://github.com/zhquan/TFM.git",  
            "https://github.com/zhquan/videochat.git"  
        ]  
    }  
}
```

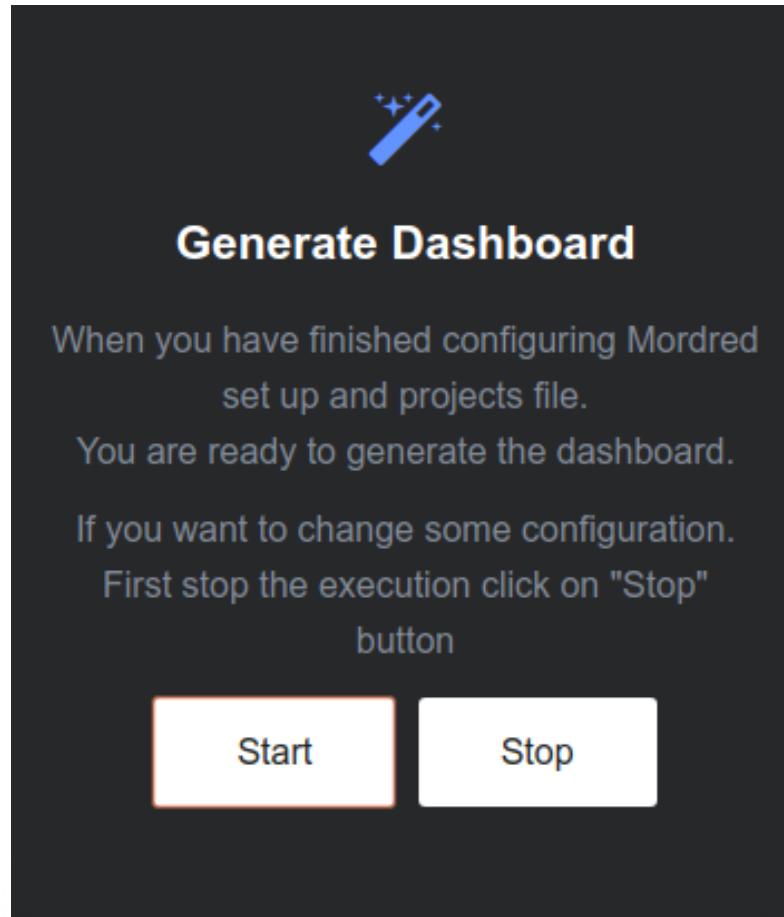
```
setup.cfg
```

```
[general]  
short_name = quan  
update = true  
min_update_delay = 720  
debug = true  
logs_dir = /home/bitergia/logs  
  
[projects]  
projects_file = /home/bitergia/conf/sources/projects.json  
  
[es_collection]  
url = http://elasticsearch:9200  
  
[es_enrichment]  
url = http://elasticsearch:9200  
autorefresh = true  
  
[sortinghat]  
host = mariadb  
user = root  
password =  
database = quan_sh  
load_orgs = false  
orgs_file = /home/bitergia/conf/orgs_file  
autoprofile = []  
matching = [email]  
sleep_for = 50  
bots_names = []  
unaffiliated_group = Unknown  
affiliate = true  
  
[phases]  
collection = true  
identities = true  
enrichment = true  
panels = true
```



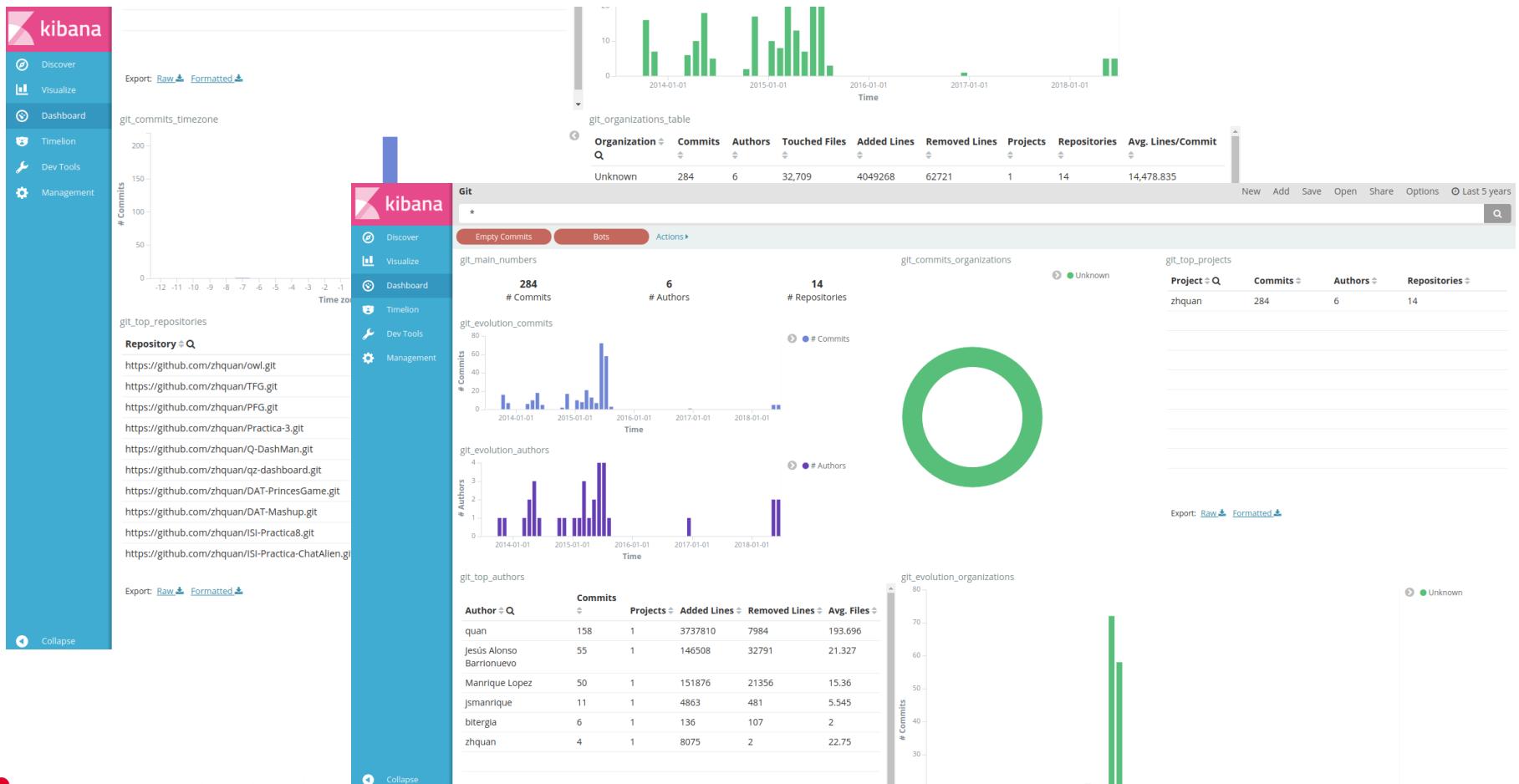
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Generate Dashboard

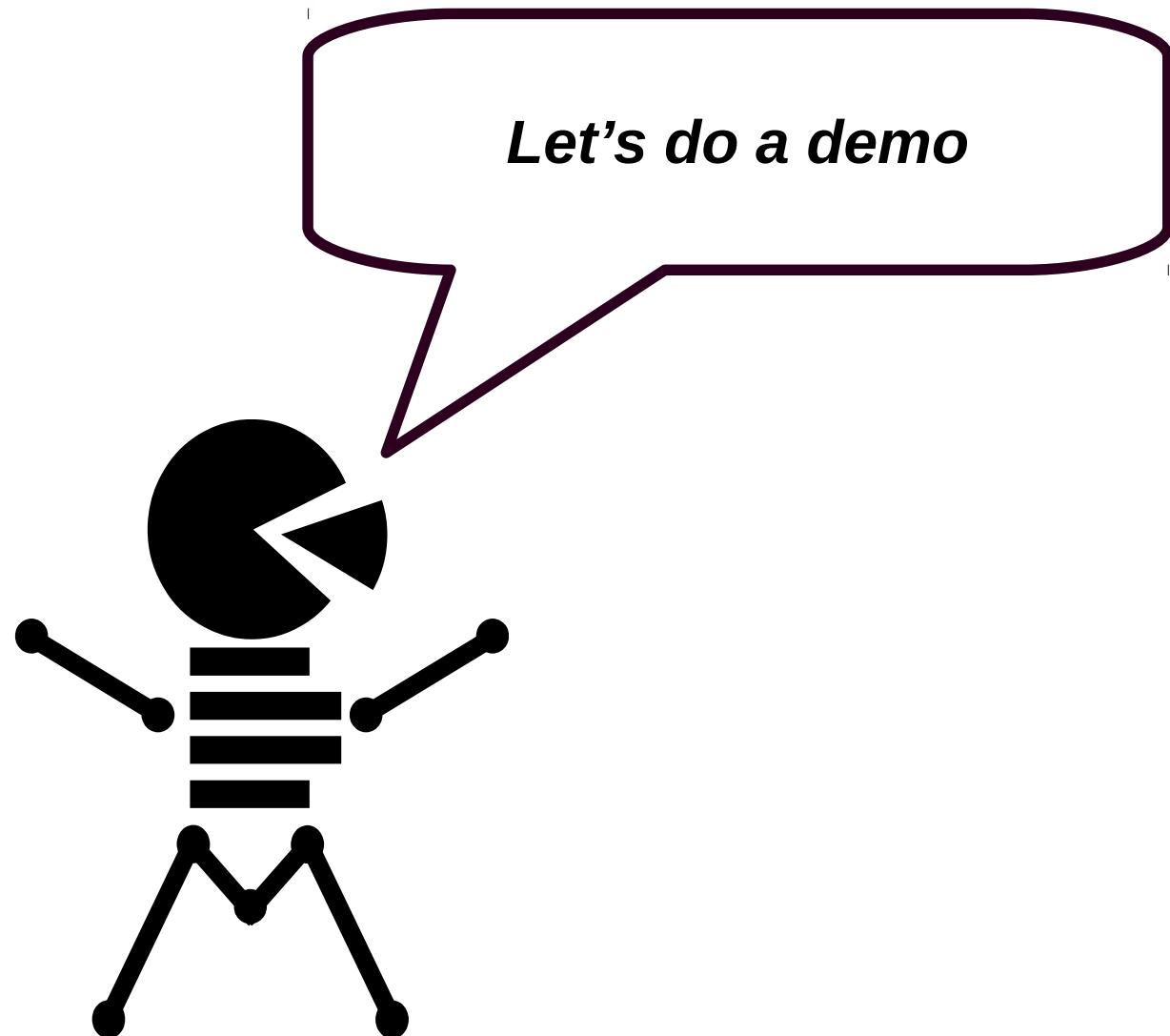


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Dashboard



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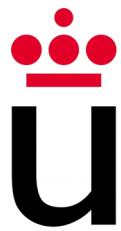
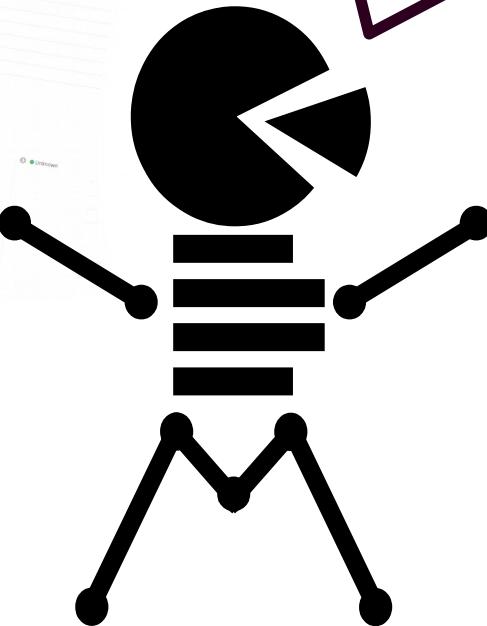
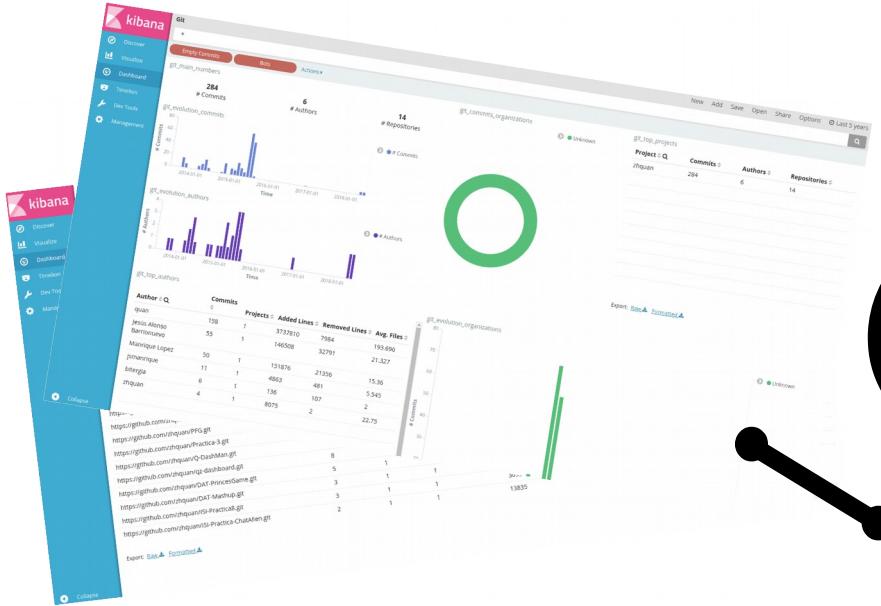


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Thank you for your attention!!!



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