

# Buildtime Trend

What's trending in your build process

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FOSDEM 2016  
January 31st, 2016



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# Overview

- What is Buildtime Trend?
- How does it work?
- How to start using it
- Demo



# It started with an itch

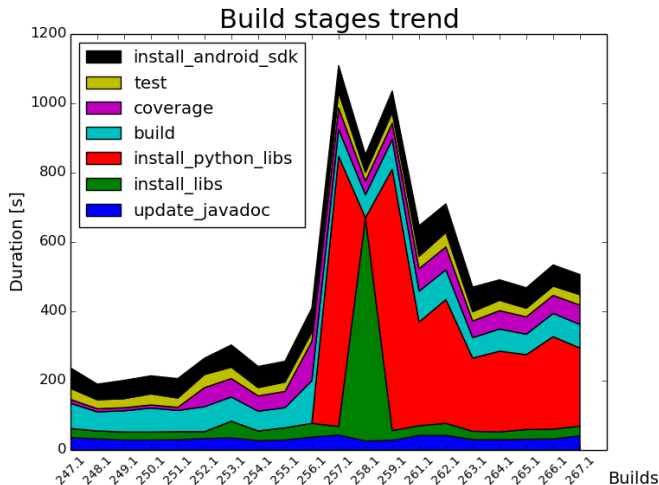
Project with unreliable builds on Travis CI:

- some builds took longer than others
- no timing information was present in the logs
- which stage took longer?



# Proof of concept

A script to generate a chart with duration of build stages :



# First release - dashboard

38

Total builds

35

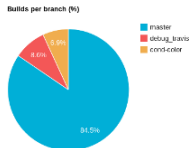
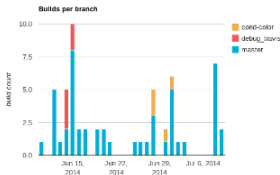
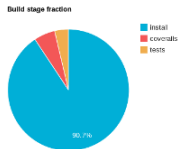
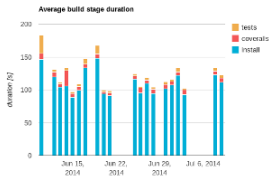
Builds passed

3

Builds failed

119s

Average build time



Powered by [Buildtime trend](#) (0.1).



# What is Buildtime Trend?

Buildtime Trend is an Open Source application that uses (timing) data to visualise trends in a build process

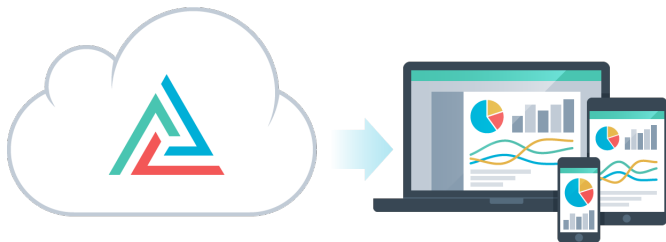


# How it works

Webservice is triggered at the end of a build :

- download Travis CI build logfile
- parse the (timing) data
- store data
- visualise using a dashboard with charts





Keen IO's powerful APIs do the heavy lifting for you, so you can gather all the data you want and start getting the answers you need.





# Hosting the service

- CherryPy turns scripts into webservice
  - dashboard
  - badges
  - buildlog parser
- service hosted on Heroku :  
<https://buildtimetrend.herokuapp.com/>



# How to use it

Trigger the service at the end of a Travis CI build in *.travis.yml* :

## Example

notifications:

webhooks:

- <https://buildtimetrend.herokuapp.com/travis>



# Who can use it

- Webservice : Free for Open Source (for now)
- Keen.io offered to host data for free for Open Source projects. **Thanks, guys!**



# Who is using it

- Angular
- RocksDB (Facebook)
- phpMyAdmin
- Weblate
- MuseScore
- Servo
- pyca/cryptography
- Pootle
- ...



# Future development

- more and improved metrics and charts
- improve navigation and searching on dashboard
- support other CI platforms (Jenkins, ...)
- notification on a jumpy build job



# Contributions welcome

- use and test the service
- report bugs
- suggest improvements
- clone the project and send pull requests
  - implement a feature
  - fix a bug
  - add a new chart
  - improve dashboard layout
  - ...



# Demo

- Service : <https://buildtimetrend.herokuapp.com/>
- Dashboard :  
<https://buildtimetrend.herokuapp.com/dashboard/buildtimetrend/lib>
- Badges :  
<https://github.com/buildtimetrend/service#badge-examples>



# Acknowledgements

Big thanks to

- The nice people of Keen.io, for their invaluable support!
- the Open Source projects testdriving the service
- all the services that power the project





# Questions

Thanks for your attention!

Questions?

Dieter Adriaenssens - @dcadriaenssens

Presentation available on

<https://ruleant.github.io/presentations/>

Buildtime Trend

- Website : <https://buildtimetrend.github.io/>
- Service : <https://buildtimetrend.herokuapp.com/>
- Twitter : @buildtime\_trend

