

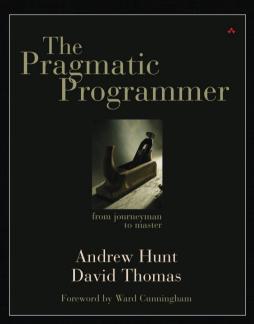
Introduction to Travis CI with git and GitHub

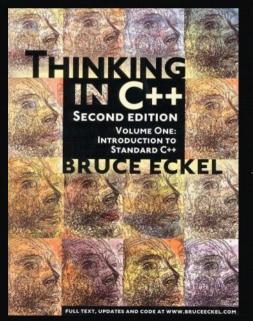
© 2015-2016 Richel Bilderbeek www.github.com/richelbilderbeek/CppPresentations





Why





Test Your Software, or Your Users Will

Automate the running of your tests through a makefile or similar tool

What?

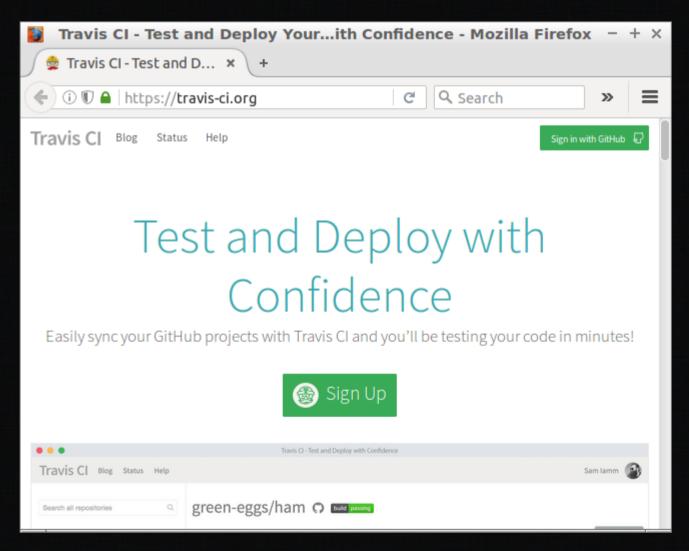
- What: Travis CI is a continuous integration service
- What: Because tests should be automated
- Expert use: Configure Travis CI to test as much as possible

Overview

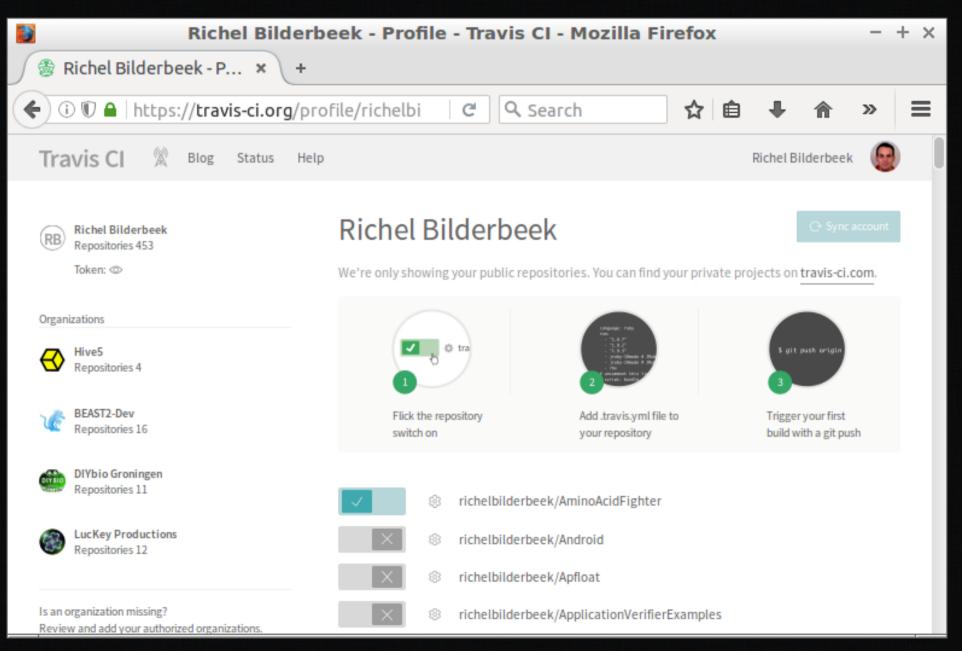
- Activate Travis
- Configure Travis file
- Push to GitHub

Activate Travis

• Go to https://travis-ci.org



Activate accounts



Configure Travis files

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	QtClasses	folder	07/23/2016 15:04
	Screenshots	folder	07/23/2016 15:04
		plain text document	333 bytes 07/23/2016 15:04
	travis.yml	YAML document	416 bytes 07/23/2016 15:04
	BookBack.jpg	JPEG image	570.2 KiB 07/23/2016 15:04
	BookFront.jpg	JPEG image	543.0 KiB 07/23/2016 15:04
	BookFrontSmall.jpg	JPEG image	53.6 KiB 07/23/2016 15:04
	build_console.sh	shell script	50 bytes 07/23/2016 15:04
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	crosscompile.sh	shell script	876 bytes 07/23/2016 15:04
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	install_packages.sh	shell script	228 bytes 07/23/2016 15:04
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.travis.yml

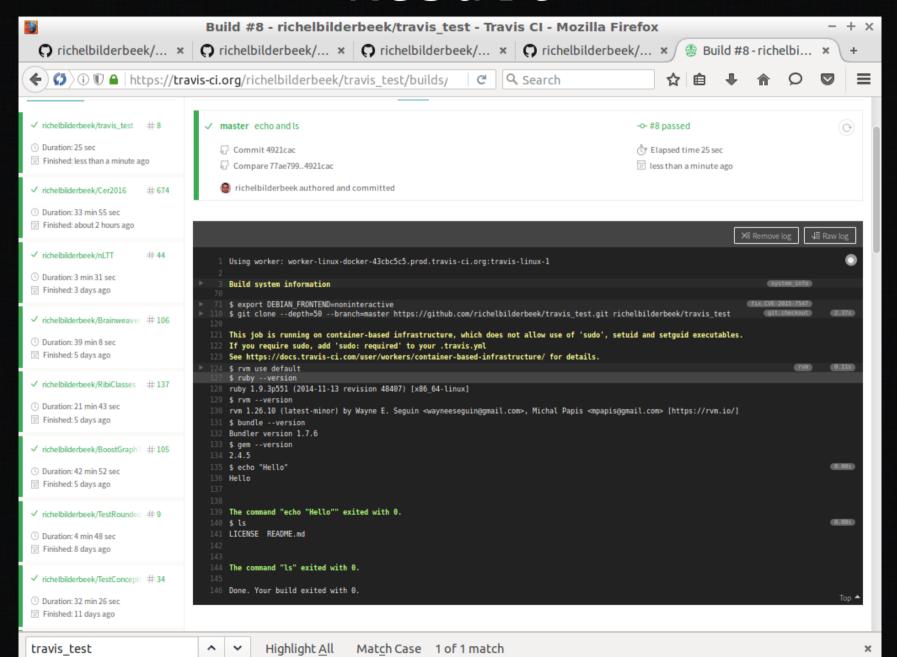
- 'Yet another Markup Language'
- Just use the bash scripts you would use

Example .travis.yml

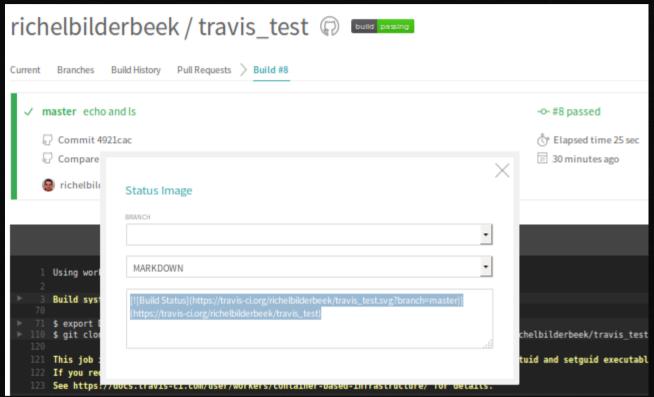
script:

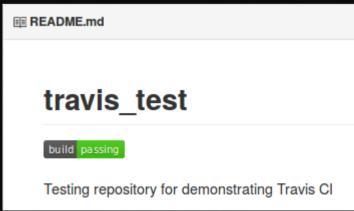
- echo "Hello"
- ls

Result



Badge





How to get a more complex .travis.yml file

Go to https://github.com /richelbilderbeek

/travis cpp tutorial

 Copy the best fitting Travis configuration file

SFML example

- (++
- Simple and Fast Media Library
- Test if the code build successfully



Example .travis.yml

```
language: cpp
compiler: qcc
sudo: true
before install:
  - sudo apt-add-repository ppa:sonkun/sfml-development --yes
  - sudo apt-get update -qq
install:
  - sudo apt-get install libsfml-dev
script:
  - qmake
  - make
```

Rexample

- Building a package
- Running a lot of tests



Example .travis.yml

```
language: r
cache: packages
after success:
 - Rscript -e 'lintr::lint package()'
  - Rscript -e 'covr::codecov()'
 - Rscript -e 'goodpractice::gp()'
```

Conclusion

- Travis CI can be used to
 - Reproduce a build process
 - Improve code quality
 - Education