Tools für dein SEP
Continuous Integration

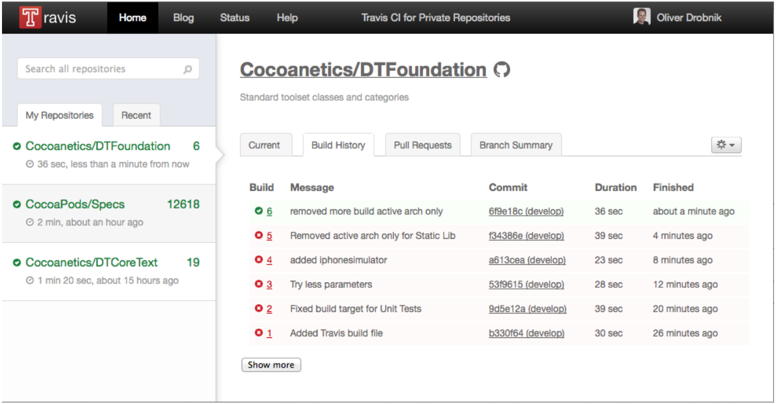
IEEE Student Branch Passau
Julian Breiteneicher

7. Juli 2016

Wofür ist das gut?

- Regelmäßiges, automatisches Bauen und Testen des gesamten Projekts
- Zeitnahe Entdeckung von Fehlern
- Schnelles Finden des schuldigen Commits
- Automatische Benachrichtigung (z. B. über E-Mail)
- Voraussetzung: Existierendes Build-System (z. B. Ant, Maven, ...)

Wofür ist das gut?


ravis
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Oliver Drobnik
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Cocoanetics/DTFoundation 6
36 sec, less than a minute from now

CocoaPods/Specs 12618
2 min, about an hour ago

Cocoanetics/DTCoreText 19
1 min 20 sec, about 15 hours ago

Cocoanetics/DTFoundation

Standard toolset classes and categories

Build	Message	Commit	Duration	Finished
✓ 6	removed more build active arch only	6f9e18c (develop)	36 sec	about a minute ago
✗ 5	Removed active arch only for Static Lib	f34386e (develop)	39 sec	4 minutes ago
✗ 4	added iphonesimulator	a613cea (develop)	23 sec	8 minutes ago
✗ 3	Try less parameters	53f9615 (develop)	28 sec	12 minutes ago
✗ 2	Fixed build target for Unit Tests	9d5e12a (develop)	39 sec	20 minutes ago
✗ 1	Added Travis build file	b330f64 (develop)	30 sec	26 minutes ago

Beispiele

- Jenkins
- Travis CI

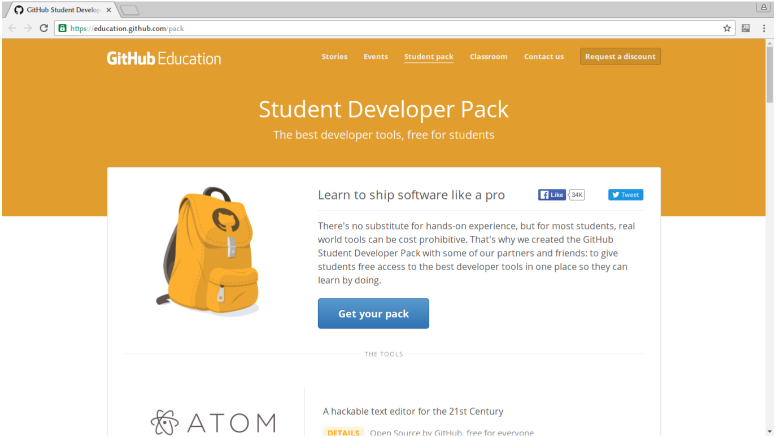
Jenkins

- Unterstützt Ant, Maven und Gradle
- Self-Hosted (Java)

Travis CI

- Sehr gut in github integriert
- Unterstützt Ant, Maven und Gradle
- Gehostet bei `https://travis-ci.org`
- Als Student kostenlos über Githubs *Student Developer Pack* `https://education.github.com`

Travis CI



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There's no substitute for hands-on experience, but for most students, real world tools can be cost prohibitive. That's why we created the GitHub Student Developer Pack with some of our partners and friends: to give students free access to the best developer tools in one place so they can learn by doing.

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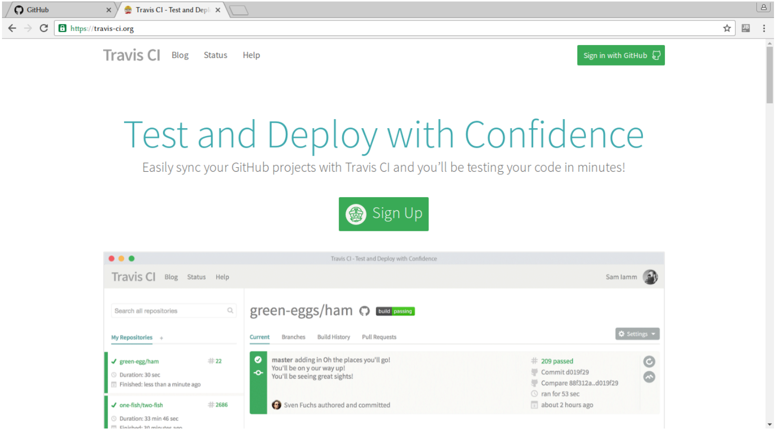
Travis CI


GitHub
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Easily sync your GitHub projects with Travis CI and you'll be testing your code in minutes!

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green-eggs/ham
build passing
Current
Branches
Build History
Pull Requests
Settings

green-egg/ham #22
Duration: 30 sec
Finished: less than a minute ago

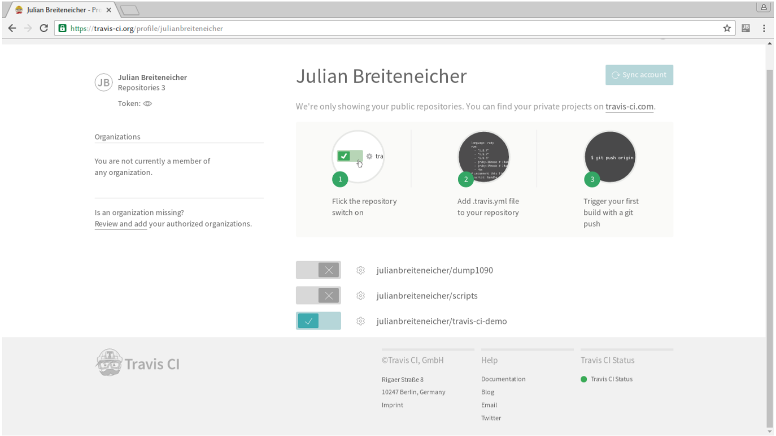
one-fish/two-fish #2686
Duration: 33 min 46 sec
Finished: 30 minutes ago

master adding in Oh the places you'll go!
You'll be on y our way up!
You'll be seeing great sights!

Sven Fuchs authored and committed

209 passed
Commit d019f29
Compare 88f312a..d019f29
ran for 53 sec
about 2 hours ago

Travis CI



Julian Breiteneicher - Pro

https://travis-ci.org/profile/julianbreiteneicher

JB Julian Breiteneicher
Repositories 3

Token:

Organizations

You are not currently a member of any organization.

Is an organization missing?
Review and add your authorized organizations.

Julian Breiteneicher

Sync account

We're only showing your public repositories. You can find your private projects on travis-ci.com.

1. Flick the repository switch on
2. Add .travis.yml file to your repository
3. Trigger your first build with a git push

```
$ git push origin
```

- ☒ julianbreiteneicher/dump1090
- ☒ julianbreiteneicher/scripts
- ✓ julianbreiteneicher/travis-ci-demo

Travis CI

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Rigaer Straße 8
10247 Berlin, Germany
Imprint

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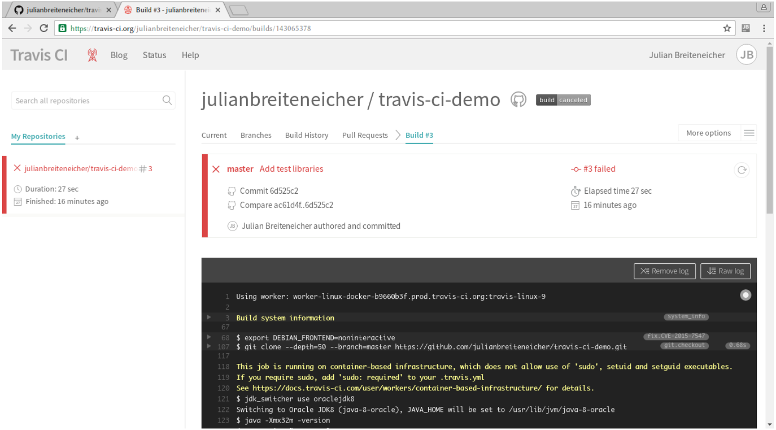
Travis CI Status
● Travis CI Status

Travis CI


julianbreiteneicher/travi
Build #3 - julianbreitenei
https://travis-ci.org/julianbreiteneicher/travis-ci-demo/builds/143065378
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Branches
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Build #3
More options
build canceled
Remove log
Raw log
system_info
fix.CVE-2015-7547
git.checkout
0.68s

julianbreiteneicher / travis-ci-demo

julianbreiteneicher/travis-ci-demo # 3
Duration: 27 sec
Finished: 16 minutes ago

master Add test libraries
#3 failed
Commit 6d525c2
Compare ac61d4f..6d525c2
Elapsed time 27 sec
16 minutes ago
Julian Breiteneicher authored and committed

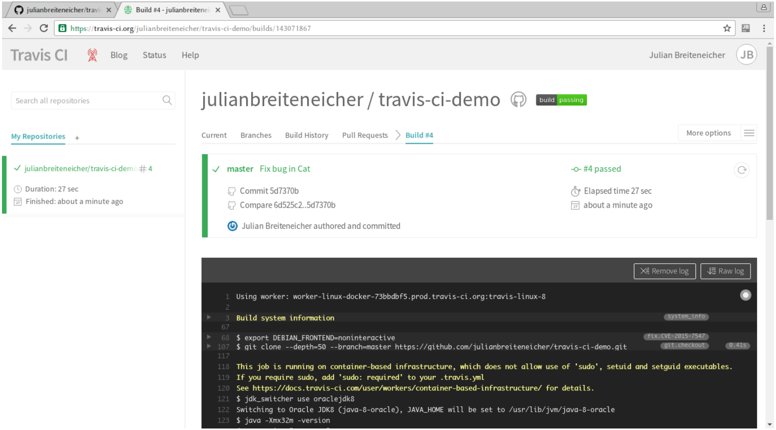
```
Using worker: worker-linux-docker-b9660b3f.prod.travis-ci.org:travis-linux-9

Build system information

$ export DEBIAN_FRONTEND=noninteractive
$ git clone --depth=50 --branch=master https://github.com/julianbreiteneicher/travis-ci-demo.git

This job is running on container-based infrastructure, which does not allow use of 'sudo', setuid and setguid executables.
If you require sudo, add 'sudo: required' to your .travis.yml
See https://docs.travis-ci.com/user/workers/container-based-infrastructure/ for details.
$ jdk_switcher use oraclejdk8
Switching to Oracle JDK8 (java-8-oracle), JAVA_HOME will be set to /usr/lib/jvm/java-8-oracle
$ java -Xmx32m -version
```

Travis CI


julianbreiteneicher/travi
Build #4 - julianbreitenei
https://travis-ci.org/julianbreiteneicher/travis-ci-demo/builds/143071867
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Build #4
More options
build passing
Remove log
Raw log
system_info
fix.CVE-2015-7547
git.checkout
0.41s

julianbreiteneicher / travis-ci-demo

✓ julianbreiteneicher/travis-ci-demo # 4
Duration: 27 sec
Finished: about a minute ago

✓ master Fix bug in Cat
Commit 5d7370b
Compare 6d525c2..5d7370b
Julian Breiteneicher authored and committed

#4 passed
Elapsed time 27 sec
about a minute ago

```
Using worker: worker-linux-docker-73bbdbf5.prod.travis-ci.org:travis-linux-8

Build system information

$ export DEBIAN_FRONTEND=noninteractive
$ git clone --depth=50 --branch=master https://github.com/julianbreiteneicher/travis-ci-demo.git

This job is running on container-based infrastructure, which does not allow use of 'sudo', setuid and setguid executables.
If you require sudo, add 'sudo: required' to your .travis.yml
See https://docs.travis-ci.com/user/workers/container-based-infrastructure/ for details.
$ jdk_switcher use oraclejdk8
Switching to Oracle JDK8 (java-8-oracle), JAVA_HOME will be set to /usr/lib/jvm/java-8-oracle
$ java -Xmx32m -version
```

Travis CI Github Demo

julianbreiteneicher/travis-ci-demo