



Tools für dein SEP

Continuous Integration

IEEE Student Branch Passau
Julian Breiteneicher

5. Juli 2018

- ▶ 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. Gradle, Maven, Ant, ...)

Travis CI  About Us Status Help Julian Breitenreicher 


Search all repositories


[My Repositories](#) Running (0/0)

+
✓ [julianbreiteneicher/grad](#) # 12
⌚ Duration: 21 sec
📅 Finished: 16 days ago

✗ [se-passau/vara-llvm](#) # 12
⌚ Duration: 1 min 33 sec
📅 Finished: 6 months ago

✓ [julianbreiteneicher/SEP](#) # 506
⌚ Duration: 2 min 19 sec
📅 Finished: 4 years ago

[julianbreiteneicher / gradle-ci-demo](#)  build passing

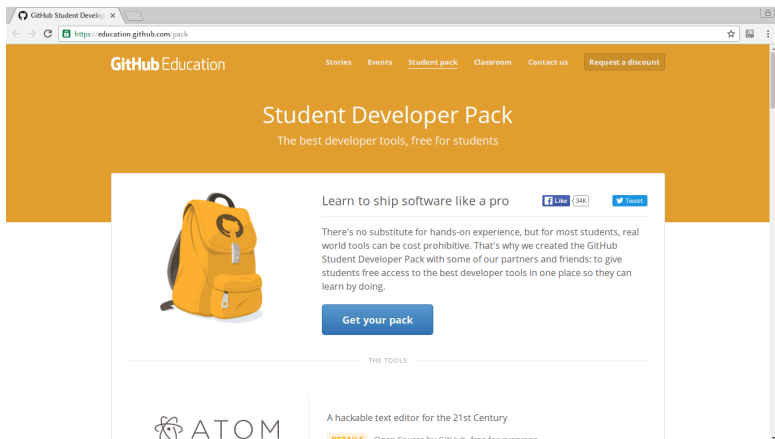
Current Branches [Build History](#) Pull Requests More options 

✓ demo	Fix dog	→ #12 passed	⌚ 21 sec	⊙
⊙	Julian Breitenreicher	→ ae566e6	📅 16 days ago	
✗ demo	Change dog	→ #11 failed	⌚ 24 sec	⊙
⊙	Julian Breitenreicher	→ 343a123	📅 16 days ago	
✓ demo	Fix bug again	→ #10 passed	⌚ 34 sec	⊙
⊙	Julian Breitenreicher	→ 6055c82	📅 16 days ago	
✗ demo	Introduce bug	→ #9 failed	⌚ 42 sec	⊙
⊙	Julian Breitenreicher	→ 1642e82	📅 16 days ago	
✓ master	Fix bug	→ #8 passed	⌚ 32 sec	⊙

- ▶ Jenkins
- ▶ Travis CI

- ▶ Unterstützt Gradle, Maven, Ant, ...
- ▶ Self-Hosted (Java)
- ▶ Etwas aufwändige Einrichtung, aber sehr mächtig
- ▶ URL: <https://jenkins.io>

- ▶ Sehr gut in Github integriert
- ▶ Einrichtung sehr einfach
- ▶ Unterstützt Gradle, Maven und Ant
- ▶ Gehostet bei <https://travis-ci.org>
- ▶ Als Student kostenlos über Githubs *Student Developer Pack*
<https://education.github.com>




The screenshot shows a web browser window with the URL <https://education.github.com/pack>. The page features a prominent orange header with the GitHub Education logo and navigation links for Stories, Events, Student pack, Classroom, Contact us, and Request a discount. The main heading is "Student Developer Pack" with the subtitle "The best developer tools, free for students". Below this, there is a yellow backpack icon with the GitHub logo on it. To the right of the backpack, the text reads "Learn to ship software like a pro" followed by social media share buttons for LinkedIn (34K) and Twitter. A paragraph explains that the pack provides free access to developer tools for students. A blue "Get your pack" button is positioned below the text. Underneath, a section titled "THE TOOLS" features the Atom logo and the text "A hackable text editor for the 21st Century", with a "DETAILS" link indicating it is Open Source by GitHub and free for everyone.

GitHub Education

Stories Events Student pack Classroom Contact us Request a discount

Student Developer Pack

The best developer tools, free for students




Learn to ship software like a pro [Like](#) (34K) [Tweet](#)

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.

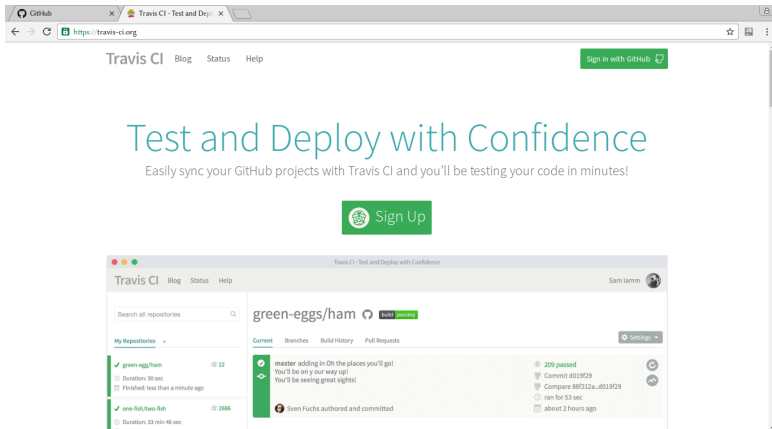
[Get your pack](#)

THE TOOLS

 ATOM

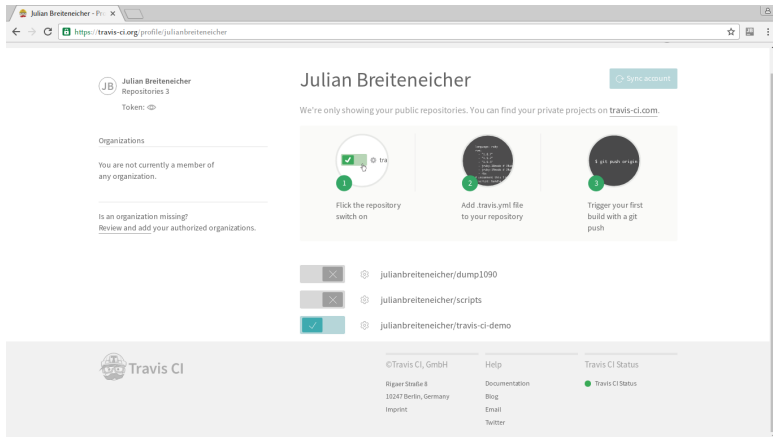
A hackable text editor for the 21st Century

[DETAILS](#) Open Source by GitHub. Free for everyone



The image shows a browser window displaying the Travis CI website. The top navigation bar includes 'Travis CI', 'Blog', 'Status', and 'Help', along with a 'Sign in with GitHub' button. The main heading reads 'Test and Deploy with Confidence' with the subtext 'Easily sync your GitHub projects with Travis CI and you'll be testing your code in minutes!'. A 'Sign Up' button is prominently displayed.

Below the main content is a screenshot of the Travis CI interface for a repository named 'green-eggs/ham'. The interface shows a search bar, a list of repositories, and a detailed view of the current build. The build status is 'passed' (209 passed). The commit message is 'master adding in Oh the places you'll go! You'll be on your way up! You'll be seeing great sights!'. The commit author is 'Sven Fuchs' and the commit hash is 'd019f29'. The build duration is '33 min 46 sec' and it was completed 'about 2 hours ago'.



Julian Breitenicher - Profile

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

JB Julian Breitenicher
Repositories 3
Token: 🔑

Organizations
You are not currently a member of any organization.
Is an organization missing?
[Review and add your authorized organizations.](#)

Julian Breitenicher

[Sync account](#)

We're only showing your public repositories. You can find your private projects on [travis-ci.com](#).

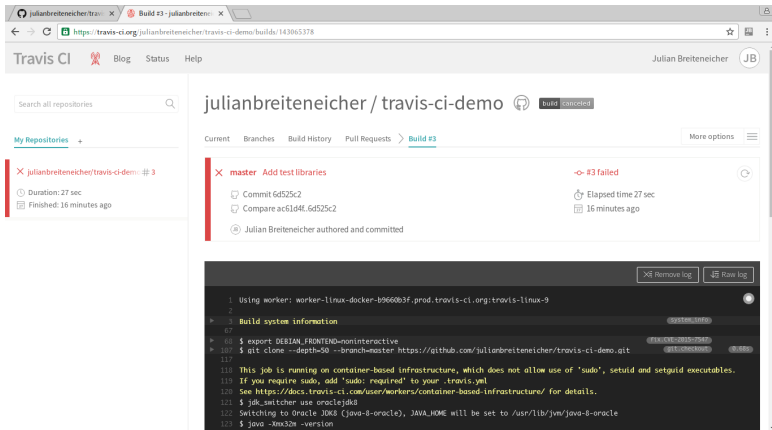
- Flick the repository switch on
- Add .travis.yml file to your repository
- Trigger your first build with a git push

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

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10247 Berlin, Germany
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Help
Documentation
Blog
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Travis CI Status
● Travis CI Status



The screenshot shows a web browser window displaying a Travis CI build page. The browser address bar shows the URL `https://travis-ci.org/julianbreiteneicher/travis-ci-demo/builds/143065378`. The page header includes the Travis CI logo, navigation links (Blog, Status, Help), and the user name Julian Breiteneicher. The main content area shows the repository `julianbreiteneicher / travis-ci-demo` with a `build canceled` status. The build is identified as `Build #3`. A summary section indicates that the `master` branch build failed, with commit `6d525c2` and a duration of 27 seconds. Below this, a terminal log is visible, showing the build environment setup, including the use of a container-based infrastructure and the installation of Java 8.

Travis CI | Blog | Status | Help | Julian Breiteneicher | JB

Search all repositories

My Repositories +

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

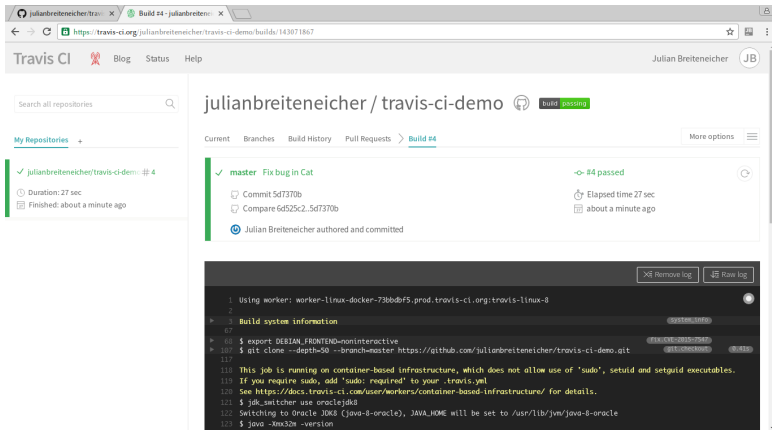
Current | Branches | Build History | Pull Requests | **Build #3** | More options

✗ **master** Add test libraries ✗ #3 failed

- 📄 Commit 6d525c2
- 🔍 Compare ac61d4f..6d525c2
- 👤 Julian Breiteneicher authored and committed

Remove log | Raw log

```
1 Using worker: worker-linux-docker-b9660b3f.prod.travis-ci.org:travis-linux-9
2
3 Build system information (system info)
4
5 $ export DEBIAN_FRONTEND=noninteractive
6 $ git clone --depth=50 --branch=master https://github.com/julianbreiteneicher/travis-ci-demo.git
7
8 This job is running on container-based infrastructure, which does not allow use of 'sudo', setuid and setgid executables.
9 If you require sudo, add 'sudo: required' to your .travis.yml
10 See https://docs.travis-ci.com/user/workers/container-based-infrastructure/ for details.
11
12 $ jdk_switcher use oraclejdk8
13 Switching to Oracle JDK8 (Java-8-oracle), JAVA_HOME will be set to /usr/lib/jvm/java-8-oracle
14 $ java -Xmx32m -version
```



The screenshot shows the Travis CI interface for a repository named 'julianbreiteneicher / travis-ci-demo'. The build status is 'passing' (indicated by a green checkmark and the text 'build passing'). The current build is '#4', which passed with a duration of 27 seconds and was completed about a minute ago. The commit is '5d7370b' by Julian Breiteneicher.

Build #4 passed

- ✓ **master** Fix bug in Cat
- Commit 5d7370b
- Compare 6d525c2...5d7370b
- Elapsed time 27 sec
- about a minute ago

Julian Breiteneicher authored and committed

```
1 Using worker: worker-linux-docker-73bbdf5.prod.travis-ci.org:travis-linux-0
2
3 Build system information system info
4
5 export DEBIAN_FRONTEND=noninteractive
6 git clone --depth=50 --branch=master https://github.com/julianbreiteneicher/travis-ci-demo.git git clone
7
8 This job is running on container-based infrastructure, which does not allow use of 'sudo', setuid and setgid executables.
9 If you require sudo, add 'sudo: required' to your .travis.yml
10 See https://docs.travis-ci.com/user/workers/container-based-infrastructure/ for details.
11
12 $ jdk_switcher use oraclejdk8
13 Switching to Oracle JDK8 (Java-8-oracle), JAVA_HOME will be set to /usr/lib/jvm/java-8-oracle
14 $ java -Xmx32m -version
```

- ▶ Kleines Beispielprojekt unter:
`github.com/julianbreiteneicher/gradle-ci-demo`