

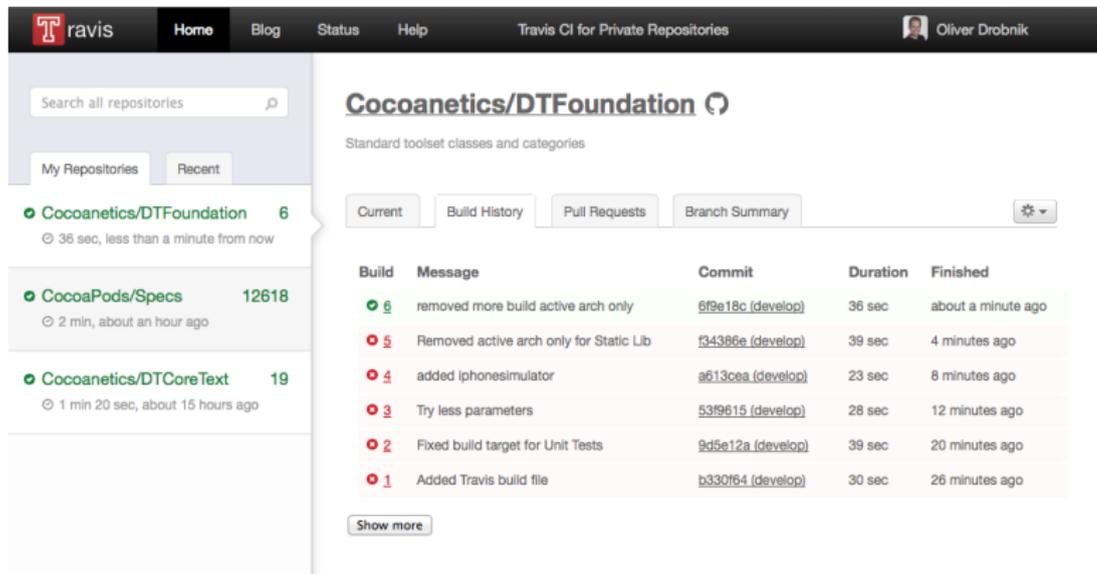
Tools für dein SEP

Continuous Integration

IEEE Student Branch Passau
Julian Breiteneicher

7. Juli 2016

- ▶ 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, ...)



The screenshot shows the Travis CI interface for the repository **Cocoaetics/DTFoundation**. The top navigation bar includes the Travis logo, links for Home, Blog, Status, and Help, the text "Travis CI for Private Repositories", and the user profile "Oliver Drobnik".

On the left sidebar, there is a search bar "Search all repositories" and two tabs: "My Repositories" (selected) and "Recent". Under "My Repositories", three repositories are listed:

- Cocoaetics/DTFoundation** (6 builds, 36 sec, less than a minute from now)
- CocoaPods/Specs** (12618 builds, 2 min, about an hour ago)
- Cocoaetics/DTCoreText** (19 builds, 1 min 20 sec, about 15 hours ago)

The main content area displays the repository name **Cocoaetics/DTFoundation** with a refresh icon. Below it, the text "Standard toolset classes and categories" is shown. There are four tabs: "Current" (selected), "Build History", "Pull Requests", and "Branch Summary", along with a settings icon.

The "Build History" tab shows a table of recent builds:

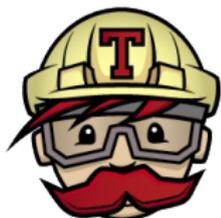
Build	Message	Commit	Duration	Finished
6	removed more build active arch only	6f9e18c (develop)	36 sec	about a minute ago
5	Removed active arch only for Static Lib	34386e (develop)	39 sec	4 minutes ago
4	added iphonesimulator	a613cea (develop)	23 sec	8 minutes ago
3	Try less parameters	53f9615 (develop)	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

A "Show more" button is located at the bottom of the build history table.

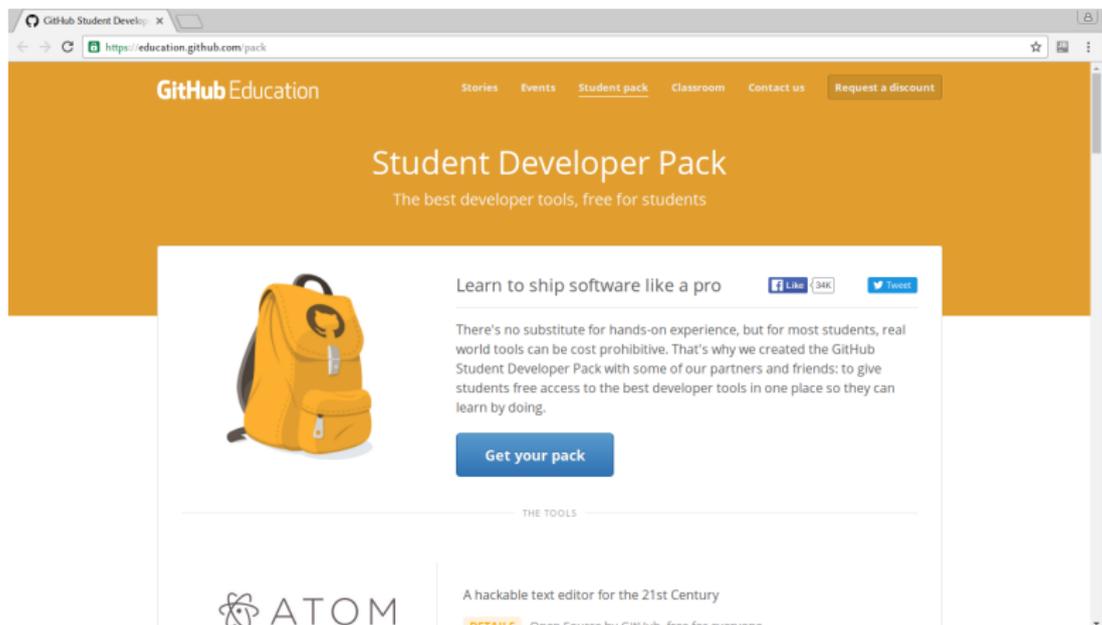
- ▶ Jenkins
- ▶ Travis CI

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

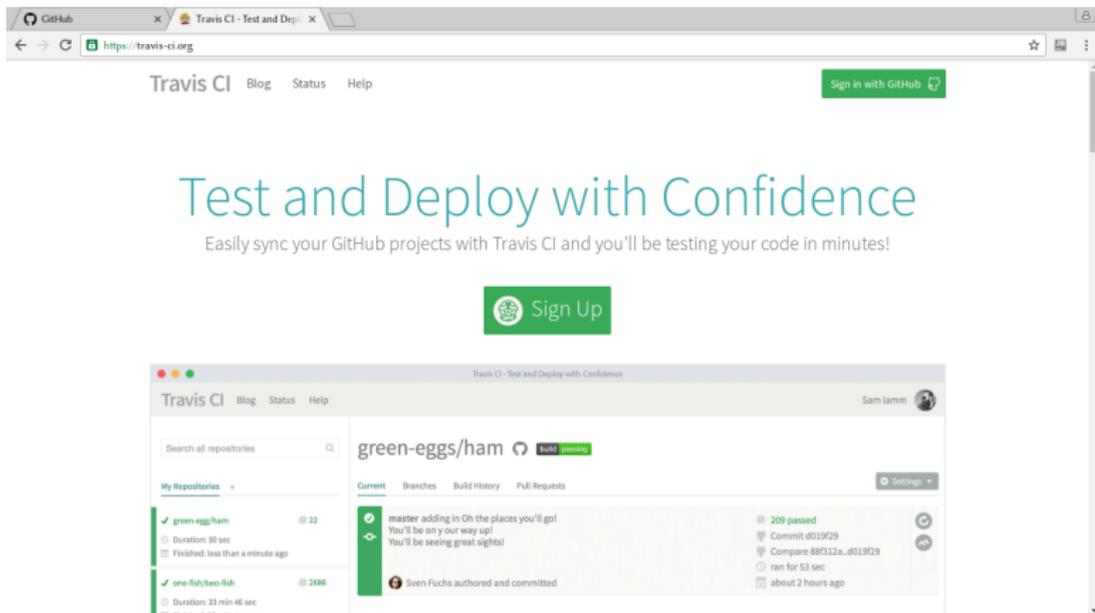




- ▶ Sehr gut in github integriert
- ▶ Unterstützt Ant, Maven und Gradle
- ▶ Gehostet bei <https://travis-ci.org>
- ▶ Als Student kostenlos über Githubs *Student Developer Pack*
<https://education.github.com>

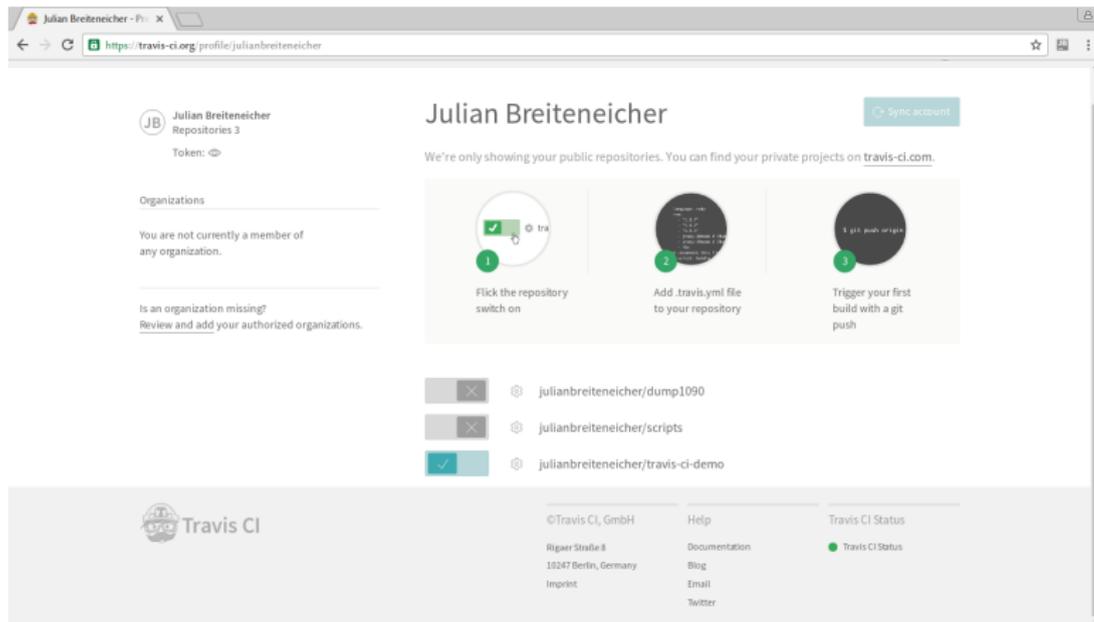


The screenshot shows a web browser window with the URL `https://education.github.com/pack`. The page has a dark orange header with the GitHub Education logo and navigation links: [Stories](#), [Events](#), [Student pack](#), [Classroom](#), [Contact us](#), and [Request a discount](#). The main content area features a large orange banner with the text "Student Developer Pack" and the subtitle "The best developer tools, free for students". Below this is a white card containing an illustration of a yellow backpack with a 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 Facebook (34K) and Twitter. A paragraph of text explains the purpose of the pack: "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." Below the text is a blue "Get your pack" button. Underneath the main card, there is a section titled "THE TOOLS" which features the Atom logo and the text "A hackable text editor for the 21st Century". A "DETAILS" link is provided, with a note: "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", "Help", and 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".



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](#).



1

Flick the repository switch on



2

Add `.travis.yml` file to your repository



3

Trigger your first build with a git push

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



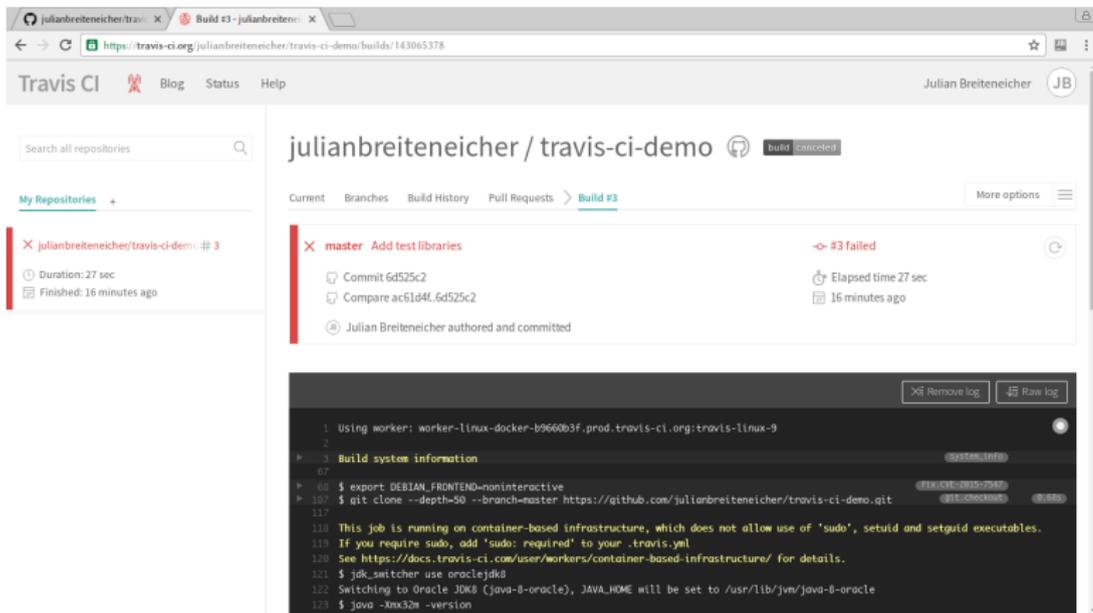
© Travis CI, GmbH
Rigauer Straße 8
10247 Berlin, Germany
Imprint

Help

- Documentation
- Blog
- Email
- Twitter

Travis CI Status

● Travis CI Status



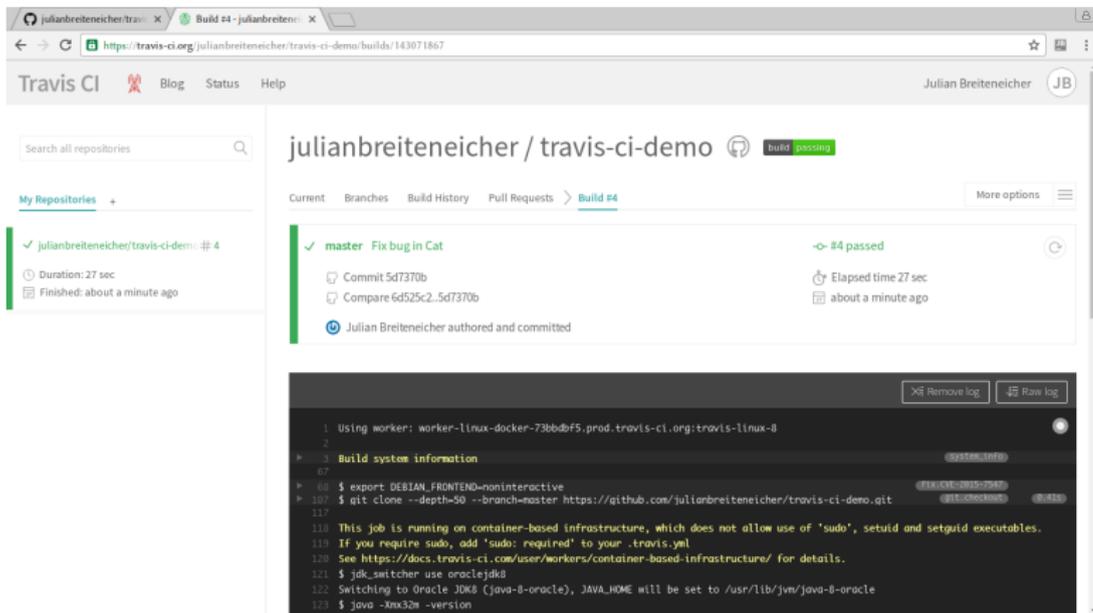
The screenshot shows a web browser window displaying a Travis CI build page. The browser's address bar shows the URL `https://travis-ci.org/julianbreiteneicher/travis-ci-demo/builds/143065378`. The page header includes the Travis CI logo, navigation links for 'Blog', 'Status', and 'Help', and the user name 'Julian Breiteneicher' with a profile icon.

The main content area shows the repository 'julianbreiteneicher / travis-ci-demo' with a 'Build #3' tab selected. The build status is 'Build cancelled'. A red banner indicates 'master Add test libraries' and '#3 failed'. The commit information shows 'Commit 6d525c2' and 'Compare ac61d4f..6d525c2', with the author 'Julian Breiteneicher'.

On the left sidebar, under 'My Repositories', the repository 'julianbreiteneicher/travis-ci-demo: #3' is listed with a duration of 27 seconds and finished 16 minutes ago.

The build log is visible at the bottom, showing the following commands and output:

```
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 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 travis.yml
10 See https://docs.travis-ci.com/user/workers/container-based-infrastructure/ for details. travis-ci
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 displays the Travis CI web interface for the repository 'julianbreiteneicher / travis-ci-demo'. The build status is 'passing'.

Build Summary:

- Repository: julianbreiteneicher/travis-ci-demo: #4
- Duration: 27 sec
- Finished: about a minute ago
- Build Status: **passing**
- Commit: 5d7370b
- Elapsed time: 27 sec
- Author: Julian Breiteneicher

Build Log:

```

1 Using worker: worker-linux-docker-73bbdf5.prod.travis-ci.org:travis-linux-0
2
3 Build system information
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
  
```

 [julianbreiteneicher/travis-ci-demo](#)