

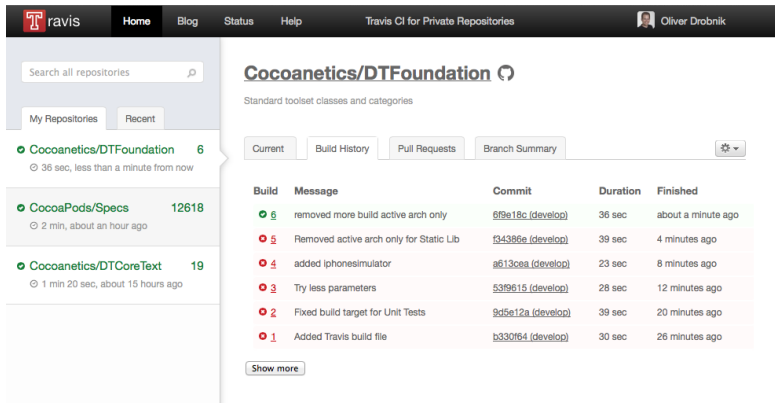
# Tools für dein SEP

## 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 **Cocoaanetics/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" and "Recent". Under "My Repositories", three repositories are listed:

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

The main content area displays the repository name **Cocoaanetics/DTFoundation** with a refresh icon. Below it, the text "Standard toolset classes and categories" is shown. There are four tabs: "Current", "Build History", "Pull Requests", and "Branch Summary". The "Build History" tab is active, showing a table of recent builds.

Build	Message	Commit	Duration	Finished
6	removed more build active arch only	<a href="#">6f9e18c (develop)</a>	36 sec	about a minute ago
5	Removed active arch only for Static Lib	<a href="#">34386e (develop)</a>	39 sec	4 minutes ago
4	added iphonesimulator	<a href="#">a613cea (develop)</a>	23 sec	8 minutes ago
3	Try less parameters	<a href="#">53f9615 (develop)</a>	28 sec	12 minutes ago
2	Fixed build target for Unit Tests	<a href="#">9d5e12a (develop)</a>	39 sec	20 minutes ago
1	Added Travis build file	<a href="#">b330f64 (develop)</a>	30 sec	26 minutes ago

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

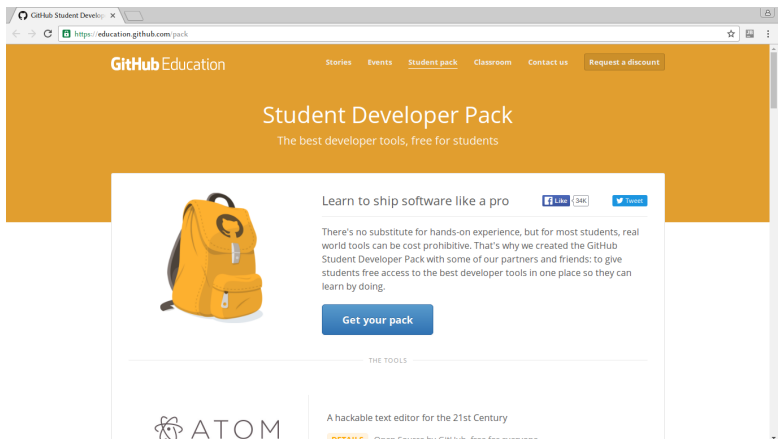
- ▶ Jenkins
- ▶ Travis CI

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

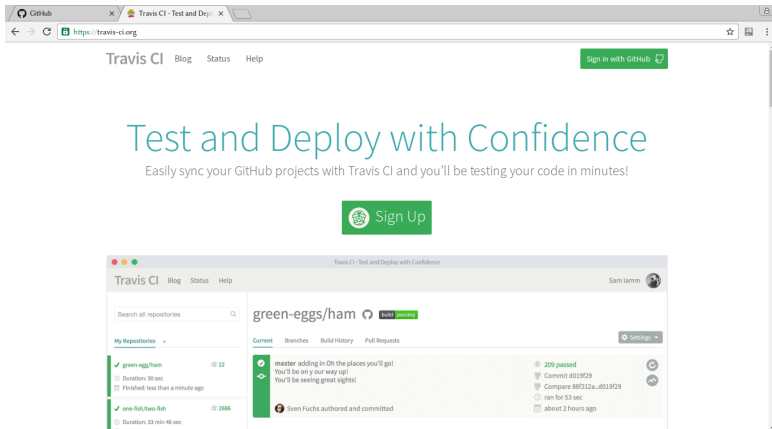




- ▶ Sehr gut in github integriert
- ▶ Unterstützt Ant, Maven und Gradle
- ▶ Gehostet bei <https://travis-ci.org>
- ▶ Als Student kostenlos über Githubs *Student Developer Pack*  
<https://education.github.com>



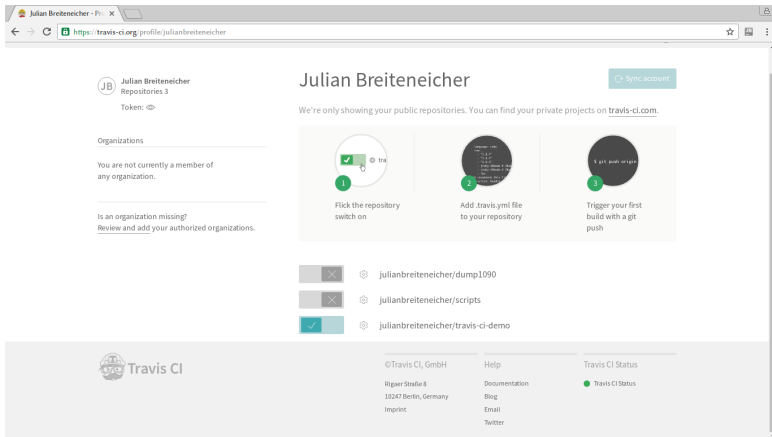
The screenshot shows a web browser window with the URL `https://education.github.com/pack`. The page has a dark orange header with the GitHub Education logo and navigation links: [Stories](#), [Events](#), [Student pack](#), [Classroom](#), [Contact us](#), and [Request a discount](#). The main content 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" with social media share buttons for Facebook (34K) and Twitter. A paragraph follows: "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 button labeled "Get your pack". 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, followed by the text "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 this 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 Breiteneicher - Profile

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

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



Travis CI

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Rigauer Straße 8  
10247 Berlin, Germany  
Imprint

Help

[Documentation](#)

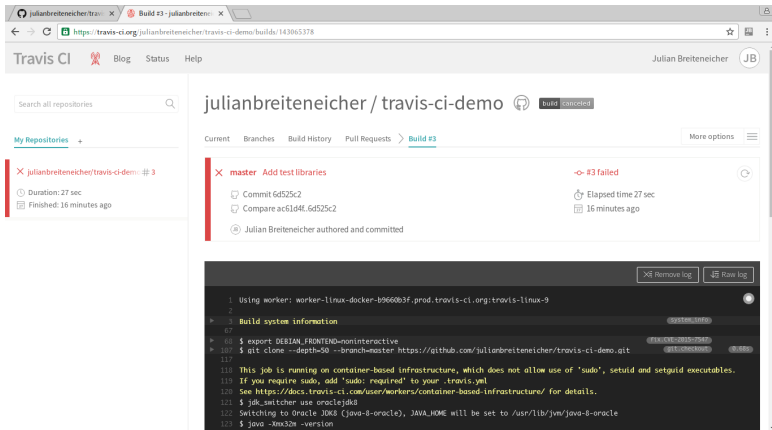
[Blog](#)

[Email](#)

[Twitter](#)

Travis CI Status

● [Travis CI Status](#)



The screenshot shows a web browser window displaying a Travis CI build page. The browser 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" with a profile icon.

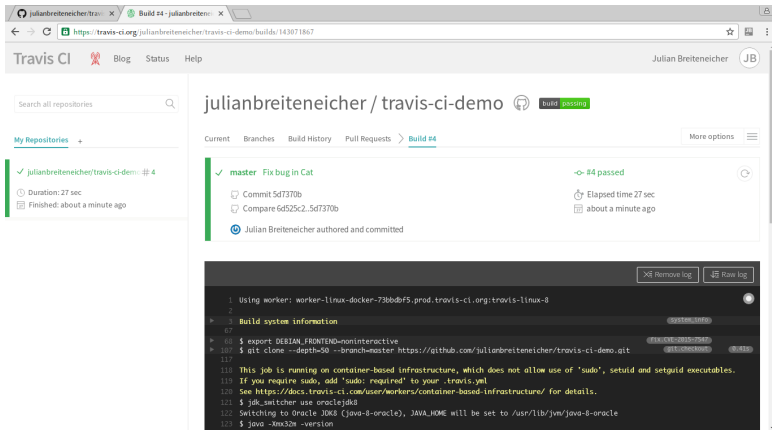
The main content area shows the repository "julianbreiteneicher / travis-ci-demo" with a "Build #3" tab selected. A red banner at the top of the build details indicates "Build #3 failed". Below this, the commit information is shown: "Commit 6d525c2" and "Compare ac61d4f..6d525c2". The build duration is listed as "Elapsed time 27 sec" and "Finished: 16 minutes ago".

On the left side, there is a "My Repositories" section with a search bar and a list of repositories. The first entry is "julianbreiteneicher/travis-ci-demo: #3", which is marked as failed with a red 'X' icon. Below it, the duration "27 sec" and "Finished: 16 minutes ago" are listed.



The bottom section of the page shows a terminal log for the build. The log content is as follows:

```

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 displays the Travis CI web interface for the repository 'julianbreiteneicher / travis-ci-demo'. The build status is 'passing'. The interface includes a search bar, navigation links (Blog, Status, Help), and a user profile for Julian Breiteneicher. The main content area shows the build details for 'Build #4', including the commit hash '5d7370b' and the author 'Julian Breiteneicher'. A terminal log is visible at the bottom, showing system information and the execution of 'java -Xmx32m -version'.


Travis CI  Blog Status Help Julian Breiteneicher 


Search all repositories

**My Repositories** +

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

**julianbreiteneicher / travis-ci-demo**  build passing

Current Branches Build History Pull Requests > **Build #4** More options 


✓ **master** Fix bug in Cat ➔ #4 passed 

- 📄 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
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`