Travis CI

A distributed build platform for Open Source

Md Tajmilur Rahman

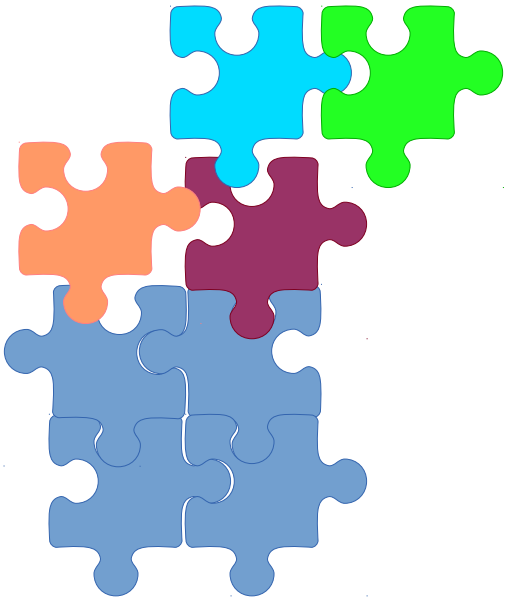
Mahsa Moosavi

Ameer

CI: Continuous Integration

Continuous Integration is a software development practice where members of a team integrate their work frequently ... verified by an automated build (including test) to detect integration errors.

-- Martin Fowler



What is **Travis CI**?

A hosted continuous integration service for open-source and private projects

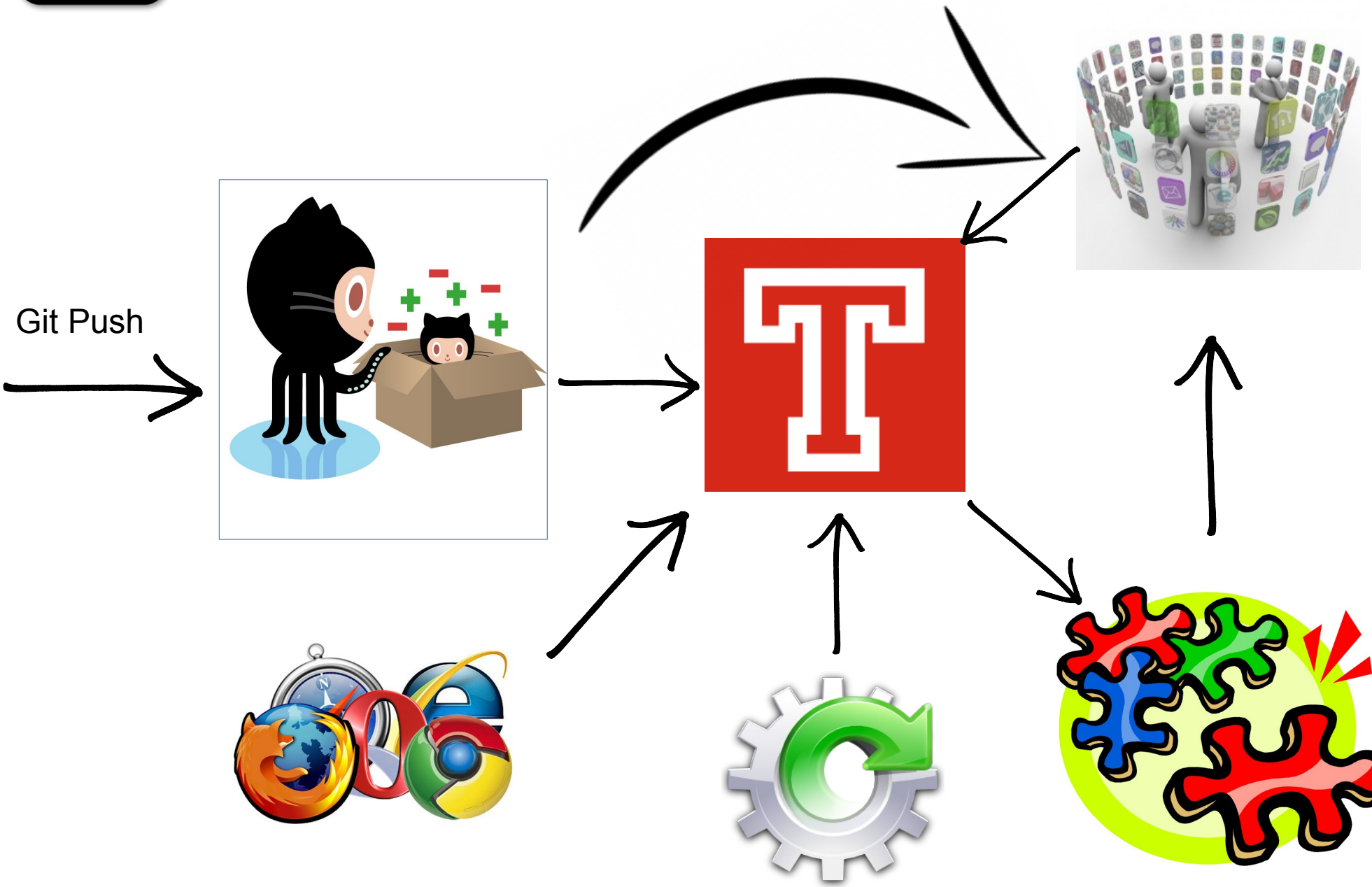
An Open Source platform

Works with DVC

It's a Build System

It is for the Open Source community

Travis Build System



Travis Language Support

Android, C/C++, Clojure, Erlang, Go, Groovy, Haskell, Java, Javascript, NodeJS, Objective-C, Perl, PHP, Phyton, Ruby, Scala

Services

MySQL, PostgreSQL, MongoDB, CouchDB, Redis, Riak, RabbitMQ, Memcached, Cassandra, Neo4j, Elasticsearch, Krestel, SQLite3, ZeroMQ

Notifications






Email, IRC, Campfire, Flowdock, HipChat, Sqwiggle, Slack, Webhook

How it works?

gi add .travis.yml
git commit .travis.yml

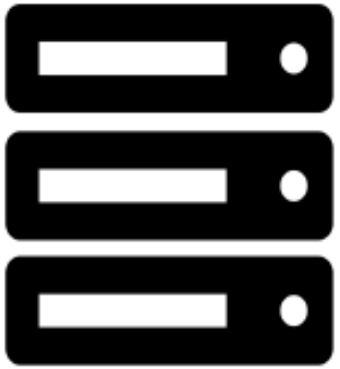
git push ....

gi add .
git commit .

git push ....

service hook

run tests / builds



fresh environments

.travis.yml

```yaml
language: php

php:
    - 5.4
    - 5.5

```

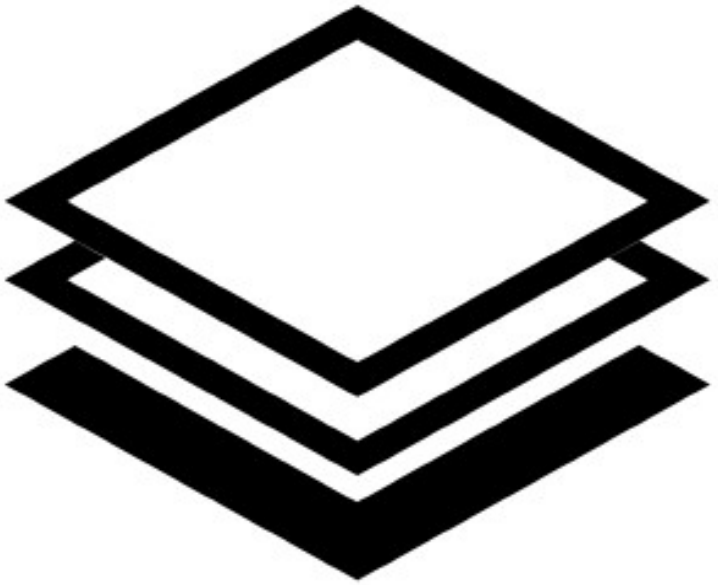
.travis.yml

```yaml
language: php

php:
    - 5.4
    - 5.5

before_script:
    - pyrus install pear/PHP_CodeSniffer
    - phpenv rehash
    - phpcs --config-set default_standard PEAR
    - composer install
```

.travis.yml

```yaml
language: php

php:
    - 5.4
    - 5.5

before_script:
    - pyrus install pear/PHP_CodeSniffer
    - phpenv rehash
    - phpcs --config-set default_standard PEAR
    - composer install

script:
    - phpcs --standard=build/travis-ci-phpcs.xml --extensions=php --ignore=vendor .
    - phpunit -c tests/phpunit.xml

```

A Build Life-Cycle



1. before_install
2. **install**
3. before_script
4. **script**
5. after_script
6. after_success or after_failure

Live Demo

What if a pull request comes into my repository?

What happens if a pull request is not mergable?

The End-Goal is