

CI/CD with Github Actions

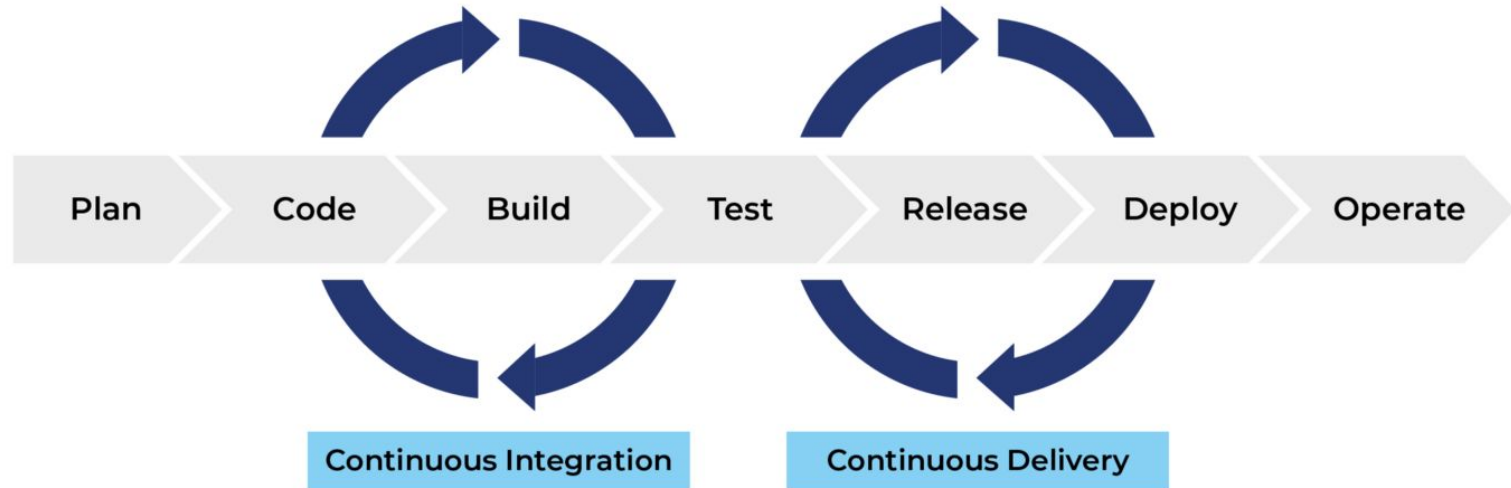
Hacktalk Braunschweig (Online)

05.01.2021



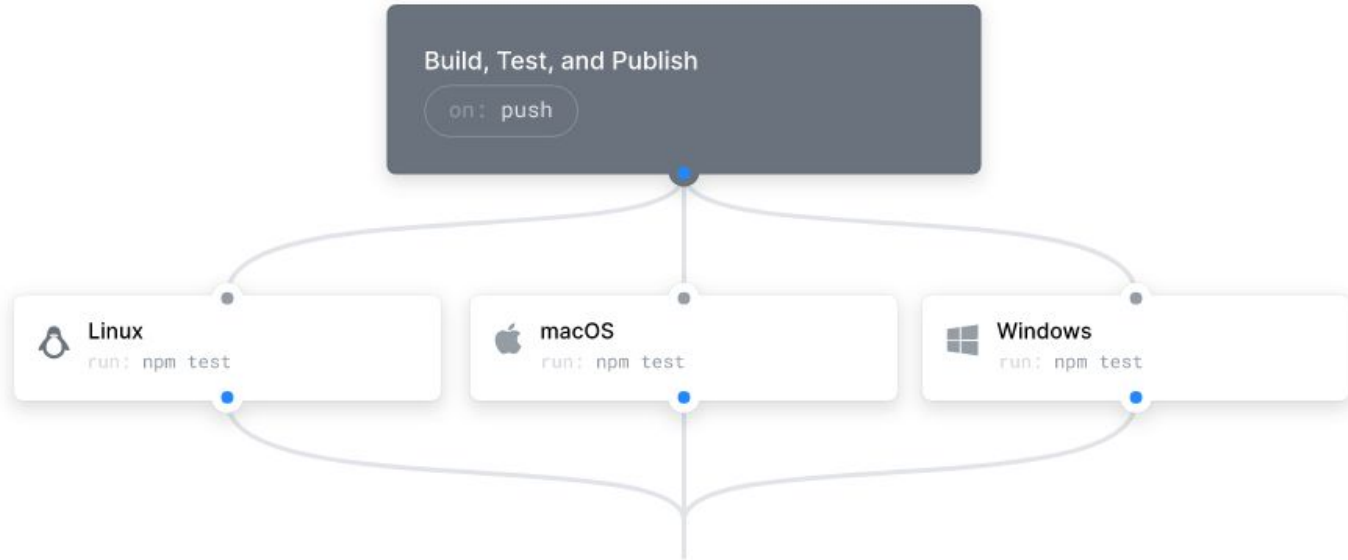
www.PyBraunschweig.de

Was ist CI/CD?



Github Actions

Natives CI/CD für Github Projekte



Github Actions

Natives CI/CD für Github Projekte

Elemente

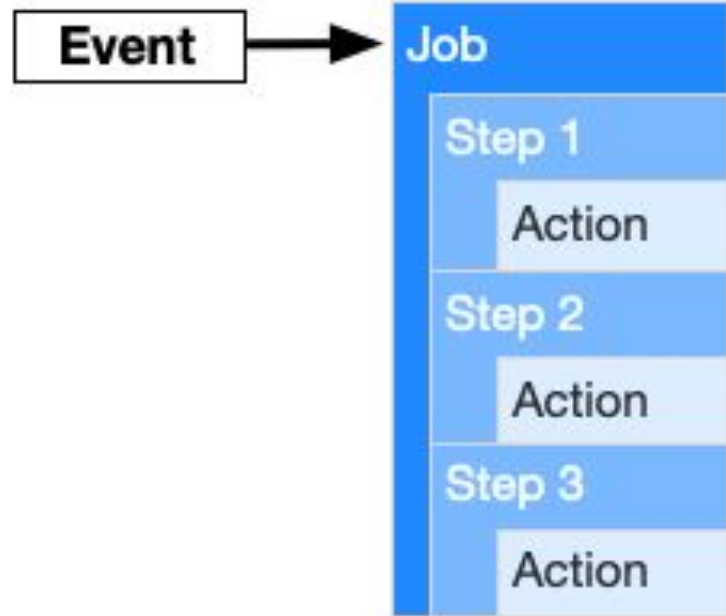
- Actions
- Steps
- Jobs
- Workflows
- Events

Github Actions

Natives CI/CD für Github Projekte

Elemente

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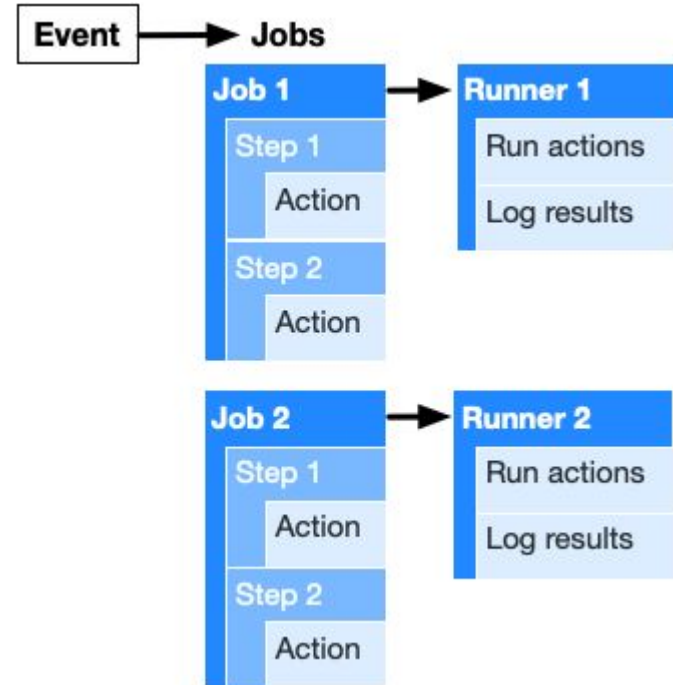


Github Actions

Natives CI/CD für Github Projekte

Elemente

- Actions
- Steps
- Jobs
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Beispielprojekt - Karmabot



- Patrick** 21:07 Uhr
@pybob +++
- karmabot** APP 21:07 Uhr
pybob's karma increased to 923
- Patrick** 21:07 Uhr
@karmabot ++++
- karmabot** APP 21:08 Uhr
Thanks Patrick for the extra karma, my karma is 184 now
- Patrick** 21:08 Uhr
@Patrick +++
- karmabot** APP 21:08 Uhr
Sorry, cannot give karma to self
- Patrick** 21:08 Uhr
@karmabot ---
- karmabot** APP 21:08 Uhr
Not cool Patrick lowering my karma to 182, but you are probably right, I will work harder next time



<https://github.com/PyBites-Open-Source/karmabot>

Beispielprojekt - Karmabot



PyBites-Open-Source / karmabot

Unwatch 8

Unstar 50

<> Code ⓘ Issues 8 🔄 Pull requests ▶ Actions 📁 Projects 📖 Wiki ⓘ Security ↗ Insights ⚙ Settings

Workflows

New workflow

All workflows

Tests

Coverage

All workflows

Filter workflows

95 results

Event Status Branch Actor

✗ [pre-commit.ci] pre-commit autoupdate	pre-commit-ci-update-config	📅 23 hours ago	⌵
Coverage #34: Commit 5548b8f pushed by pre-commit-ci bot			
✓ [pre-commit.ci] pre-commit autoupdate	pre-commit-ci-update-config	📅 8 days ago	⌵
Coverage #33: Commit 2af5543 pushed by pre-commit-ci bot			
✓ version bump	develop	📅 14 days ago	⌵
Coverage #32: Commit bbbfa36 pushed by bbelderbos			
✓ version bump	develop	📅 14 days ago	⌵
Tests #61: Commit bbbfa36 pushed by bbelderbos			

Beispielprojekt - Karmabot



PyBites-Open-Source / karmabot


<> Code ⓘ Issues 8 🔗 Pull requests 🔄 Actions 📁 Projects 📖 Wiki 🛡 Security 📊 Insights ⚙ Settings

✅ version bump Tests #61

🏠 Summary

Jobs

- ✅ Python 3.7
- ✅ Python 3.8

Triggered via push 14 days ago	Status	Total duration	Artifacts
 bbelderbos pushed -> bbbfa36 develop	Success	1m 36s	-

tests.yml
on: push

Matrix: tests

✅ 2 jobs completed

Show all jobs

Beispielprojekt - Karmabot



✓ version bump Tests #61

🏠 Summary

Jobs

✓ Python 3.7

✓ Python 3.8

Python 3.7

succeeded 14 days ago in 1m 18s

- > ✓ Set up job
- > ✓ Run actions/checkout@v2
- > ✓ Run actions/setup-python@v1
- > ✓ Run pip install nox==2020.8.22
- > ✓ Run pip install poetry==1.1.4
- ▼ ✓ Run nox

```
1 ▶ Run nox
6 nox > Running session tests-3.7
7 nox > Creating virtual environment (virtualenv) using python3.7 in .nox/tests-3-7
8 nox > poetry install --no-dev
9 Installing dependencies from lock file
10
11 Package operations: 16 installs, 0 updates, 0 removals
12
13 • Installing certifi (2020.12.5)
14 • Installing chardet (4.0.0)
```

Beispielprojekt - Karmabot



```
name: Tests
on:
  push:
    branches:
      - master
      - develop
  pull_request:
    branches:
      - develop
```

```
jobs:
  tests:
    runs-on: ubuntu-latest
    strategy:
      matrix:
        python-version: [3.7, 3.8]
    name: Python ${{ matrix.python-version }}
    steps:
      - uses: actions/checkout@v2
      - uses: actions/setup-python@v1
    with:
      python-version: ${{ matrix.python-version }}
      architecture: x64
      - run: pip install nox==2020.8.22
      - run: pip install poetry==1.1.4
      - run: nox
```



It's Free Real Estate



@patrick_grs



github.com/pogross



pogross.de

