

형상 관리를 위한 Git & Github

Chapter 3

Github 활용법

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Github action 활용하기 (1)

Github Action

"GitHub Actions makes it easy to automate all your software workflows, now with world-class CI/CD. Build, test, and deploy your code right from GitHub. Make code reviews, branch management, and issue triaging work the way you want."

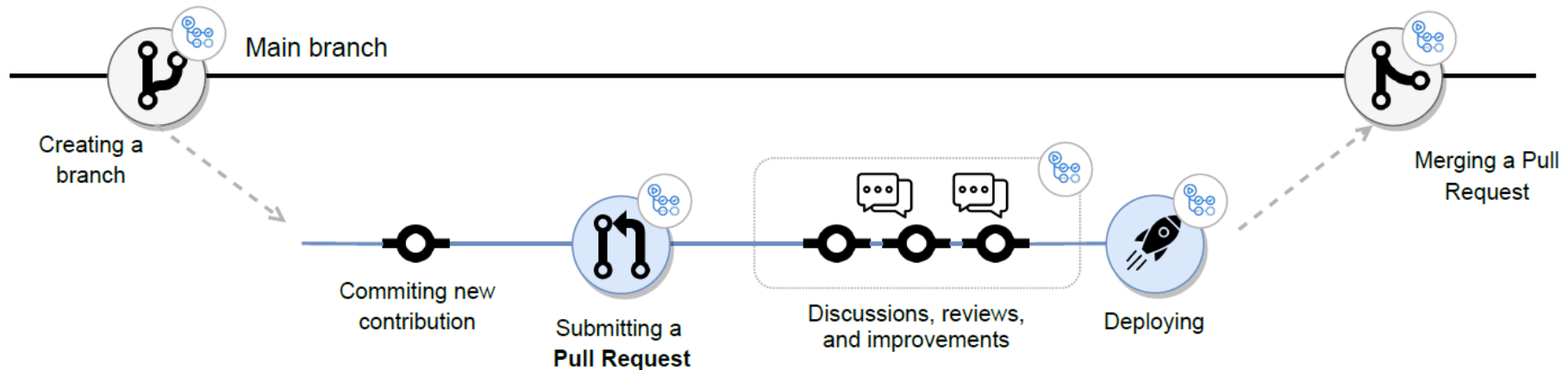


GitHub Actions

<https://github.com/features/actions>

Github Action

"GitHub Actions makes it easy to automate all your software workflows, now with world-class **CI/CD**. Build, test, and deploy your code right from GitHub. Make code reviews, branch management, and issue triaging work the way you want."



Github Action

용어

- **Workflow**
: Job을 실행하는 프로세스
- **Event**
: PR, Push 등 workflow 실행 트리거
- **Jobs**
: Step의 집합
- **Step**
: 특정 행동을 실행하는 script
- **Runner**
: Workflow가 실행되는 서버

Marketplace

- 다양한 언어를 위한 Template 제공

Choose a workflow

Build, test, and deploy your code. Make code reviews, branch management, and issue triaging work the way you want. Select a workflow to get started.

Skip this and [set up a workflow yourself](#) →

🔍 Search workflows

Suggested for this repository

Docker image

By GitHub Actions



Build a Docker image to deploy, run, or push to a registry.

Configure

Dockerfile ●

Rust

By GitHub Actions



Build and test a Rust project with Cargo.

Configure

Rust ●

Grunt

By GitHub Actions



Build a NodeJS project with npm and grunt.

Configure

JavaScript ●

Gulp

By GitHub Actions



Build a NodeJS project with npm and gulp.

Configure

JavaScript ●

Webpack

By GitHub Actions



Build a NodeJS project with npm and webpack.

Configure

JavaScript ●

Deno

By GitHub Actions



Test your Deno project

Configure

JavaScript ●

Quickstart

1. yaml 생성

```
YAML 

name: GitHub Actions Demo
on: [push]
jobs:
  Explore-GitHub-Actions:
    runs-on: ubuntu-latest
    steps:
      - run: echo "🎉 The job was automatically triggered by a ${ github.event_name }"
      - run: echo "👤 This job is now running on a ${ runner.os } server hosted by Git"
      - run: echo "🔍 The name of your branch is ${ github.ref } and your repository :
      - name: Check out repository code
        uses: actions/checkout@v3
      - run: echo "💡 The ${ github.repository } repository has been cloned to the run
      - run: echo "🚀 The workflow is now ready to test your code on the runner."
      - name: List files in the repository
        run: |
          ls ${ github.workspace }
      - run: echo "🍏 This job's status is ${ job.status }."
```

Quickstart

2. repo에 추가



Commit new file

Add GitHub Actions example

Add an optional extended description...

codertocat@github.com

Choose which email address to associate with this commit

- ☐ Commit directly to the `main` branch.
- ☒ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

codertocat-patch-1

Propose new file

Cancel

Quickstart

3. Workflow 실행

octo-org / octo-repo Private

Watch 1Star 0Fork 1

<> Code

Issues 5

Pull requests 24

Actions

Projects 8

Wiki

Security

Insights

Settings

Summary

Jobs

✓ Explore-GitHub-Actions

Triggered via push 11 minutes ago

codertocat pushed -> cb426d2 codertocat-patch-1

Status

Total duration

Billable time

Success

19s

3s

github-actions-demo.yml

on: push

✓ Explore-GitHub-Actions

4s

Quickstart

4. 실행 결과 확인

Explore-GitHub-Actions
succeeded 2 minutes ago in 6s

Search logs

>	✔ Set up job	3s
>	✔ Run echo "🚀 The job was automatically triggered by a push event."	0s
>	✔ Run echo "🌐 This job is now running on a Linux server hosted by GitHub!"	0s
>	✔ Run echo "📁 The name of your branch is refs/heads/codertocat-patch-1 and your repository is codertocat/octo-repo."	0s
>	✔ Check out repository code	3s
>	✔ Run echo "💡 The codertocat/octo-repo repository has been cloned to the runner."	0s
>	✔ Run echo "🛠️ The workflow is now ready to test your code on the runner."	0s
>	✔ List files in the repository	0s
>	✔ Run echo "🍏 This job's status is success."	0s
>	✔ Post Check out repository code	0s
>	✔ Complete job	0s