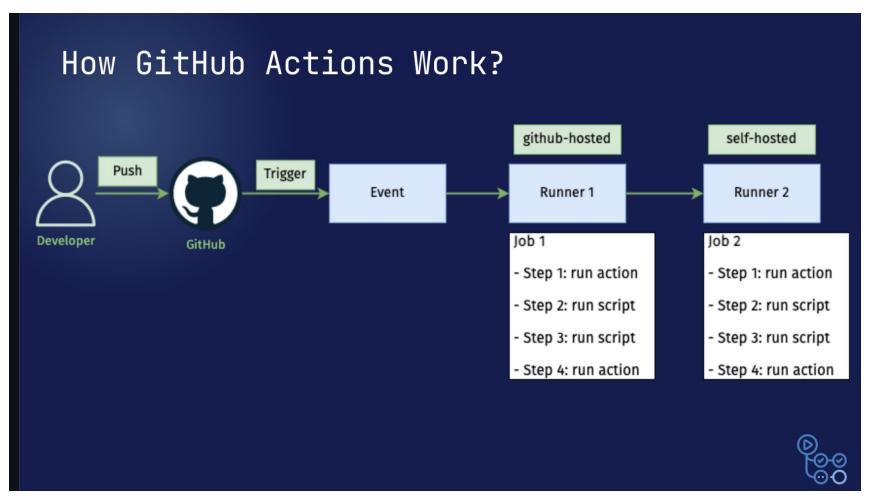
# GitHub Actions

By: Pranpaveen Laykaviriyakul

#### GitHub Actions

- Automated workflows runner
- Unlimited for public repos
- 2000 mins/months free for private repos
- Marketplace: <a href="https://github.com/marketplace">https://github.com/marketplace</a>

- YML / YAML Files
- Events
  - Activity/Event that triggers a workflow
- Jobs
  - o Job that execute on runner
- Actions
  - Action is a custom application



```
YAML
name: learn-github-actions
run-name: ${{ github.actor }} is learning GitHub Actions
on: [push]
 jobs:
  check-bats-version:
    runs-on: ubuntu-latest
     steps:
       - uses: actions/checkout@v4
       - uses: actions/setup-node@v4
         with:
           node-version: '20'
       - run: npm install -g bats
       - run: bats -v
```

Location: {repo\_root}/.github/workflows/xxxx.yaml

```
YAML
                                                                           Optional - The name of the workflow as
                                                                           it will appear in the "Actions" tab of the
name: learn-github-actions
 run-name: ${{ github.actor }} is learning GitHub Actions
on: [push]
 jobs:
   check-bats-version:
     runs-on: ubuntu-latest
     steps:
       - uses: actions/checkout@v4
       - uses: actions/setup-node@v4
         with:
           node-version: '20'
       - run: npm install -g bats
       - run: bats -v
                                        GitHub Action by pranpaveen lay.
```

GitHub repository. If this field is omitted, the name of the workflow file will be used instead.

```
YAML
                                                                         Optional - The name for workflow runs
                                                                        generated from the workflow, which will
name: learn-github-actions
                                                                         appear in the list of workflow runs on
run-name: ${{ github.actor }} is learning GitHub Actions
                                                                          your repository's "Actions" tab. This
on: [push]
                                                                           example uses an expression with
 jobs:
                                                                           the github context to display the
  check-bats-version:
                                                                          username of the actor that triggered
     runs-on: ubuntu-latest
                                                                        the workflow run. For more information,
     steps:
                                                                            see "Workflow syntax for GitHub
       - uses: actions/checkout@v4
       - uses: actions/setup-node@v4
                                                                                       Actions."
         with:
           node-version: '20'
       - run: npm install -g bats
       - run: bats -v
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Location: {repo\_root}/.github/workflows/xxxx.yaml

```
YAML
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run-name: ${{ github.actor }} is learning GitHub Actions
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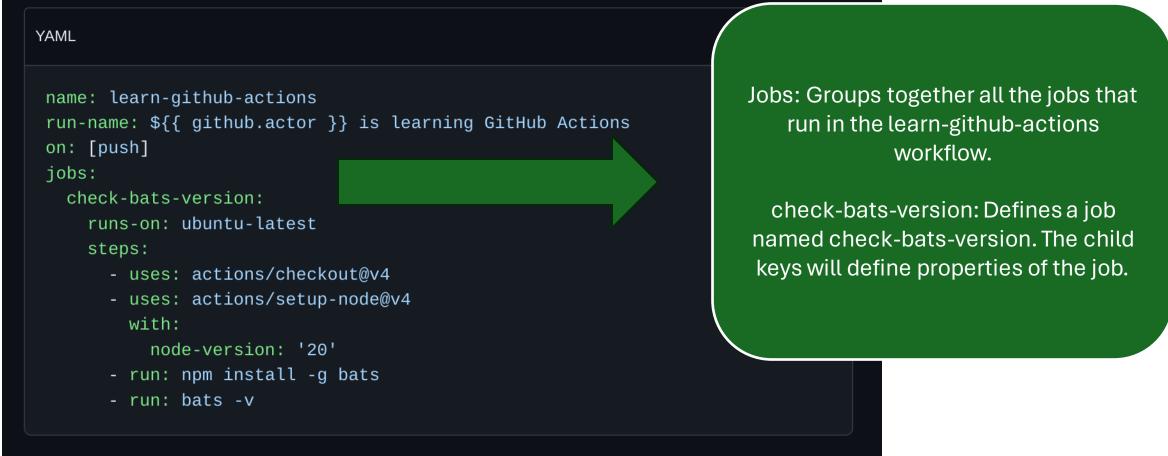
Specifies the trigger for this workflow.

This example uses the push event, so a workflow run is triggered every time someone pushes a change to the repository or merges a pull request.

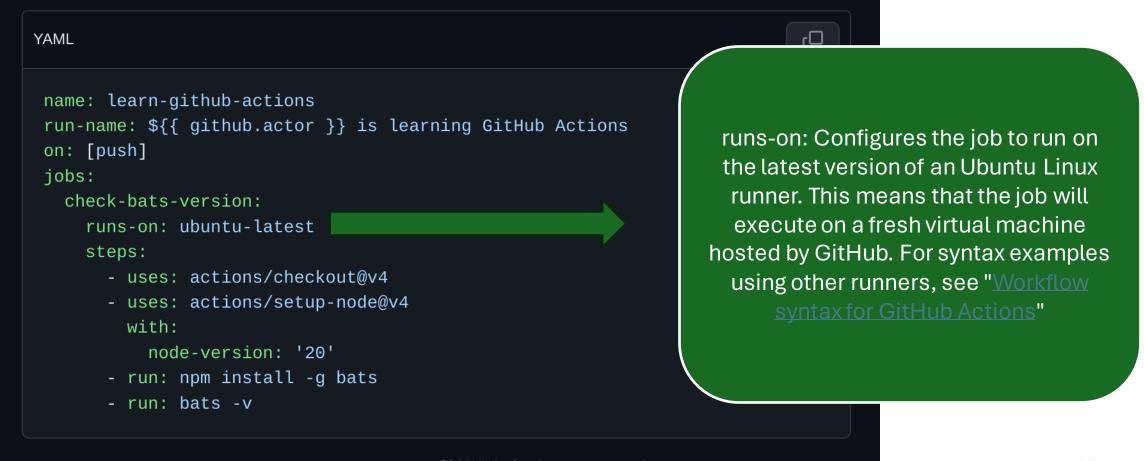
This is triggered by a push to every branch; for examples of syntax that runs only on pushes to specific branches, paths, or tags, see

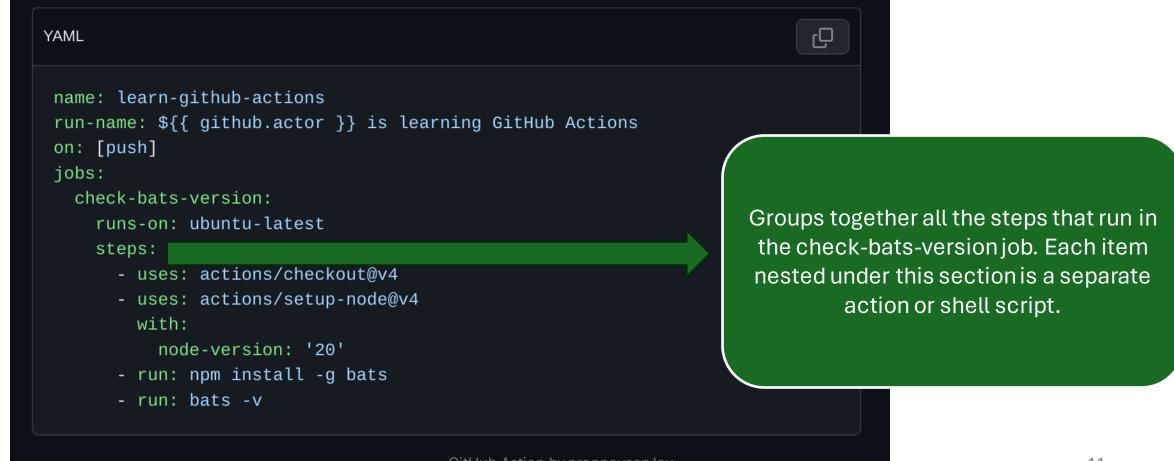
"Workflow syntax for GitHub Actions."

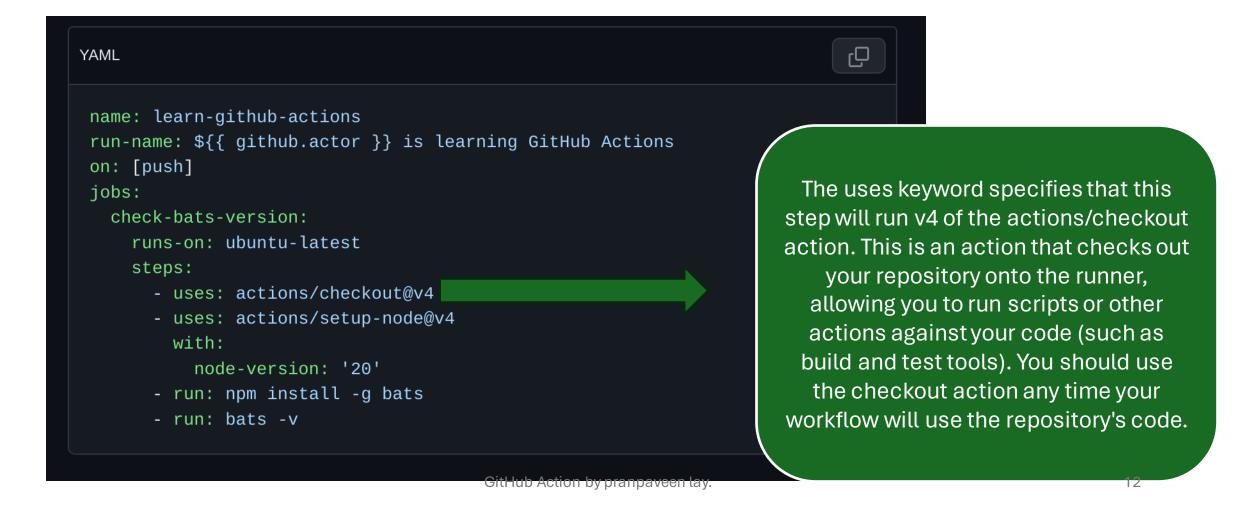
Location: {repo\_root}/.github/workflows/xxxx.yaml

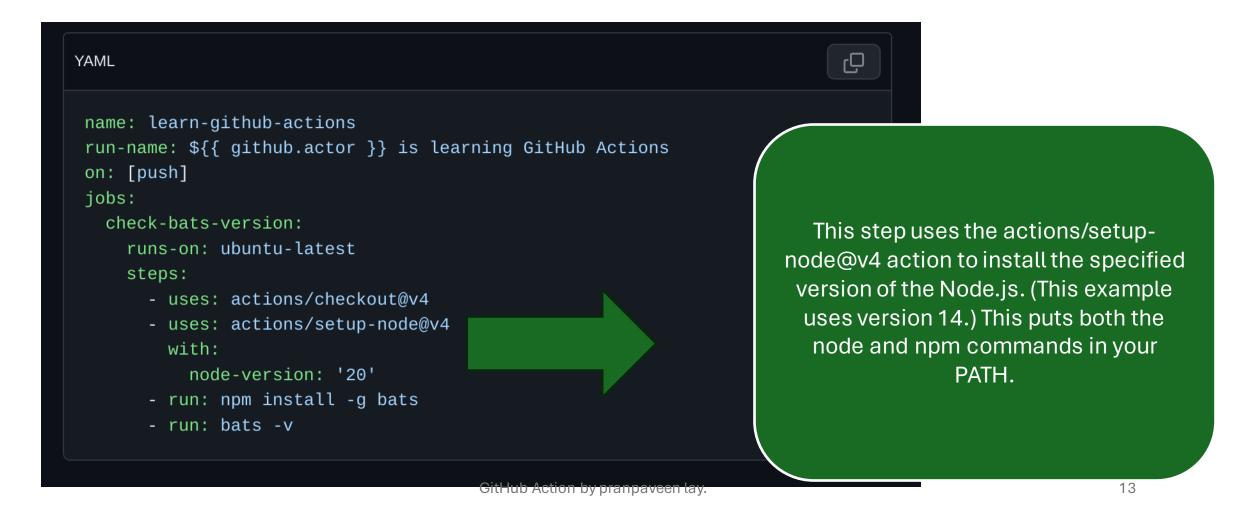


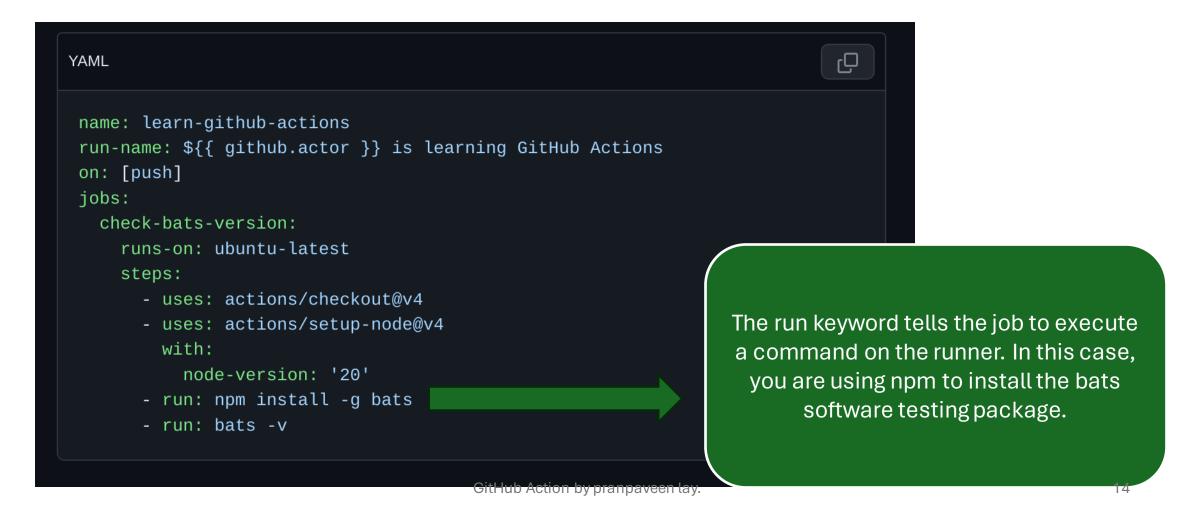
GitHub Action by pranpaveen lay.

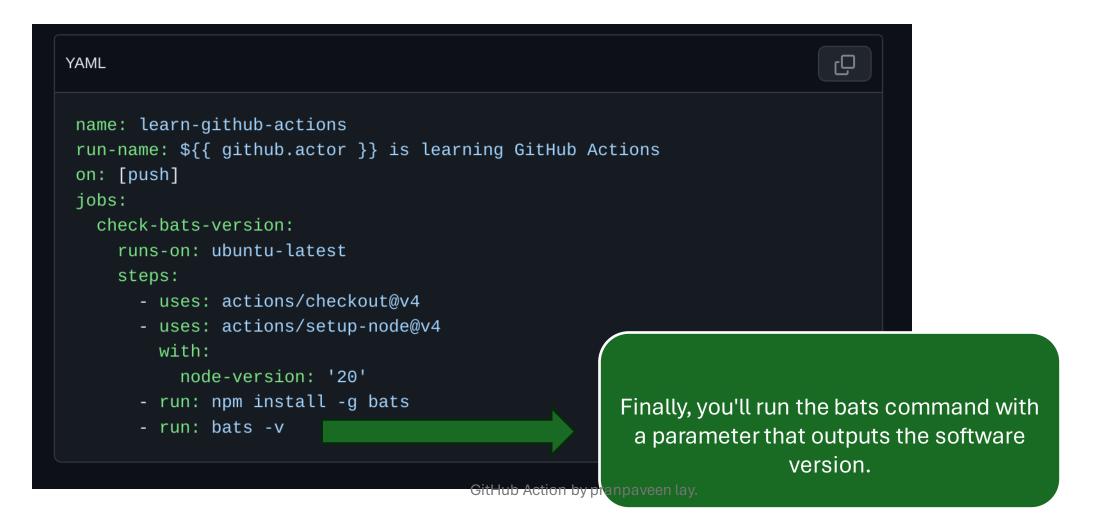










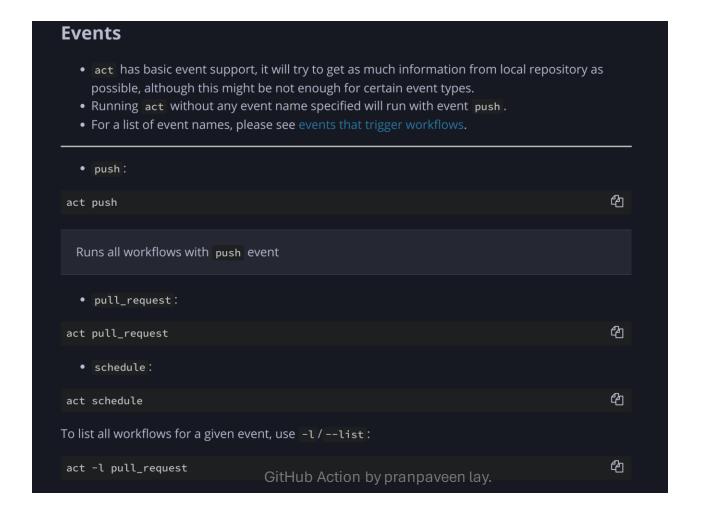


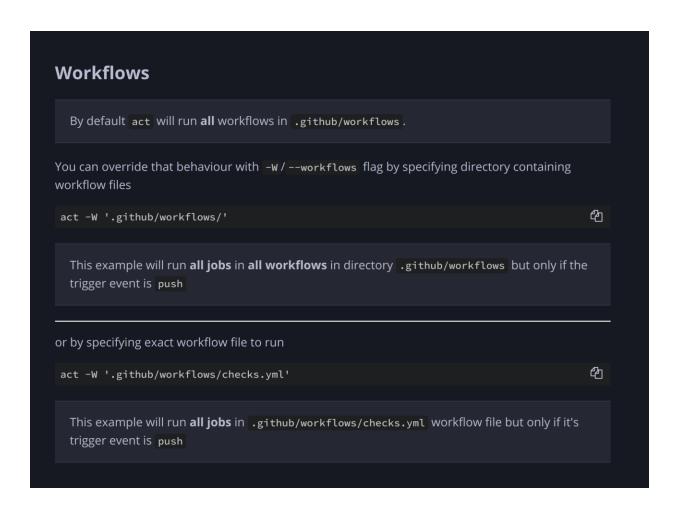
# Run workflow on local with **Act**

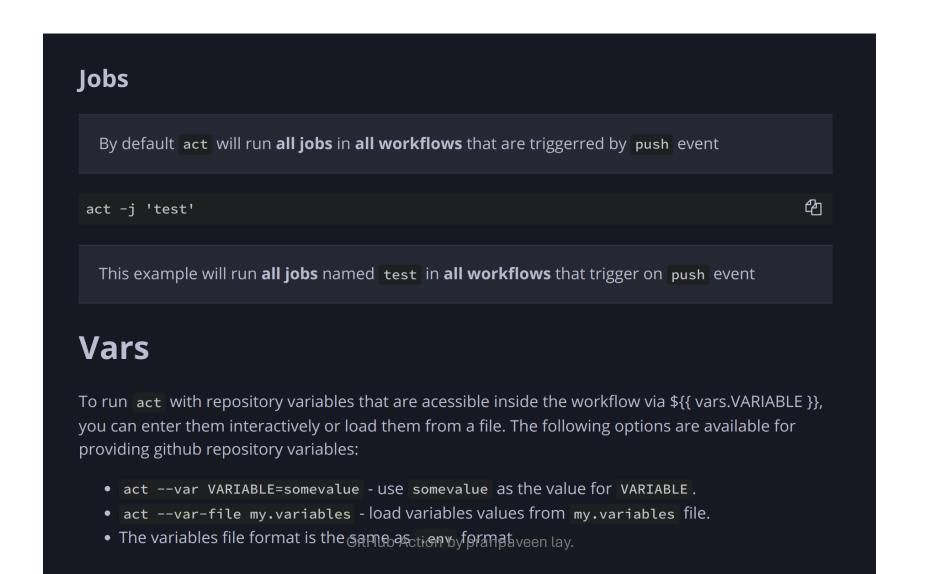
- https://github.com/nektos/act
- Download: <a href="https://github.com/nektos/act/releases">https://github.com/nektos/act/releases</a> or <a href="https://nektos/act.com/installation/index.html">https://nektos/act/releases</a> or <a href="https://nektos/act.com/installation/index.html">https://nektos/act/releases</a> or <a href="https://nektos/act.com/installation/index.html">https://nektos/act/releases</a></a> or <a href="https://nektos/act.com/installation/index.html">https://nektos/act/releases</a></a>

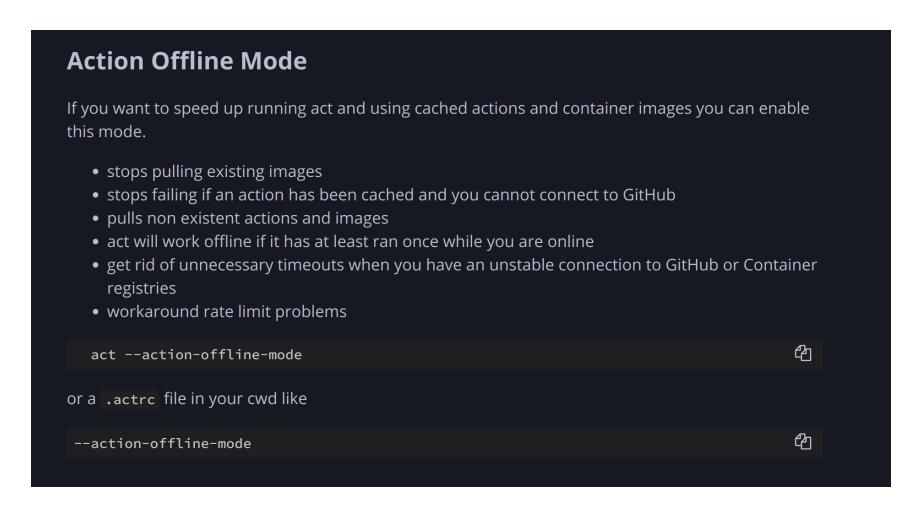


Docs: <a href="https://nektosact.com/usage/index.html">https://nektosact.com/usage/index.html</a>









Demo:

SECRET\_FILE: contains secret ex: .env

RUNNER\_NAME: ex. ubuntu-latest

```
act --secret-file {SECRET_FILE} -P {RUNNER_NAME}=-self-hosted -j {JOB_NAME}
```

#### Reference

- https://docs.github.com/en/rest/actions
- https://github.com/ninefyi/gh-action-series
- https://nektosact.com/usage/index.html