Your first action

Basic Template

This is a basic workflow to help you get started with Actions

```
name: Cl
# Controls when the workflow will run
 # Triggers the workflow on push or pull request events but only for the "main" branch
 push:
 branches: [ "main" ]
 pull_request:
 branches: [ "main" ]
 # Allows you to run this workflow manually from the Actions tab
workflow_dispatch:
# A workflow run is made up of one or more jobs that can run sequentially or in parallel
jobs:
 # This workflow contains a single job called "build"
 build:
  # The type of runner that the job will run on
  runs-on: ubuntu-latest
  # Steps represent a sequence of tasks that will be executed as part of the job
  steps:
   # Checks-out your repository under $GITHUB_WORKSPACE, so your job can access it
   - uses: actions/checkout@v3
   # Runs a single command using the runners shell
   - name: Run a one-line script
   run: echo Hello, world!
   - name: Print existing files
    run: ls -a
```

Runs a set of commands using the runners shell

- name: Run a multi-line script

run: |
echo Add other actions to build,
echo test, and deploy your project.

Workflow and Action Attributes

name:

- Used to name the workflow.
- Not required

on:

- The GitHub event that triggers the workflow (see list in the next page)
- Required
- The event can be activities within repo, schedules and webhooks.

Syntax:

```
on:
```

{even trigger}: [branch name]

jobs:

- ->Workflows must have at least one job
- ->Each job must have an identifier

runs-on:

->The type of machine needed to run the job - runner

->Options:

Virtual Machine	Processor (CPU)	Memory (RAM)	Storage (SSD)	OS (YAML workflow label)	Notes
Linux	2	7 GB	14 GB	ubuntu-latest, ubuntu-22.04, ubuntu-20.04	The ubuntu-latest label currently uses the Ubuntu 22.04 runner image.
Windows	2	7 GB	14 GB	windows-latest, windows-2022, windows-2019	The windows-latest label currently uses the Windows 2022 runner image.
macOS	3	14 GB	14 GB	<pre>macos-latest , macos-12 , macos-11</pre>	The macos-latest workflow label currently uses the macOS 12 runner image.
macOS	4	14 GB	14 GB	macos-13 [Beta]	N/A

```
check_run
check_suite
create
delete
deployment
deployment_status
discussion
discussion_comment
fork
gollum
issue_comment
issues
label
merge_group
milestone
page_build
project
project_card
project_column
public
pull_request
pull_request_comment (use issue_comment)
pull_request_review
pull_request_review_comment
pull_request_target
push
registry_package
release
repository_dispatch
schedule
status
watch
workflow_call
workflow_dispatch
workflow_run
```

branch_protection_rule

steps:

- ->List of actions or commands
- ->Access to the file system
- ->Each step runs in its own process

uses:

- ->Identifies an action to use
- ->The "uses" attribute defines the Docker image that will run the Action.
- ->Defines the location of that action

Actions are bundles of code used to perform a specific task or operation, and essentially, actions are docker images.

run:

->Runs commands in the virtual environments' shell

name:

- ->An optional identifies for the step
- ->can be paired with uses and runs.