

E can you explain what you mean by "Jobs are the main building blocks of workflows"

Let me explain GitHub Actions' hierarchy and how jobs fit in:

A workflow in GitHub Actions is like a complete automation recipe. Within this recipe, jobs are the major independent tasks that make up your workflow. Here's how it breaks down:

1. Workflow (highest level)

- This is your entire automation file (the .yml file)
- Can contain multiple jobs

2. Jobs (middle level)

- Run independently of each other by default
- Can run in parallel
- Each job runs on its own fresh virtual machine (or runner)
- Can be dependent on other jobs using needs:

3. Steps (lowest level)

- Individual tasks within a job
- Run sequentially within their job
- Share the same runner and can share data between steps

Here's a practical example

In this example, you have three jobs (build, test, and deploy) that run in a specific order. Each job is an independent unit with its own virtual environment, but they work together to accomplish the workflow's overall goal of building, testing, and deploying code.

Claude does not have the ability to run the code it generates yet



Claude can make mistakes. Please double-check responses.