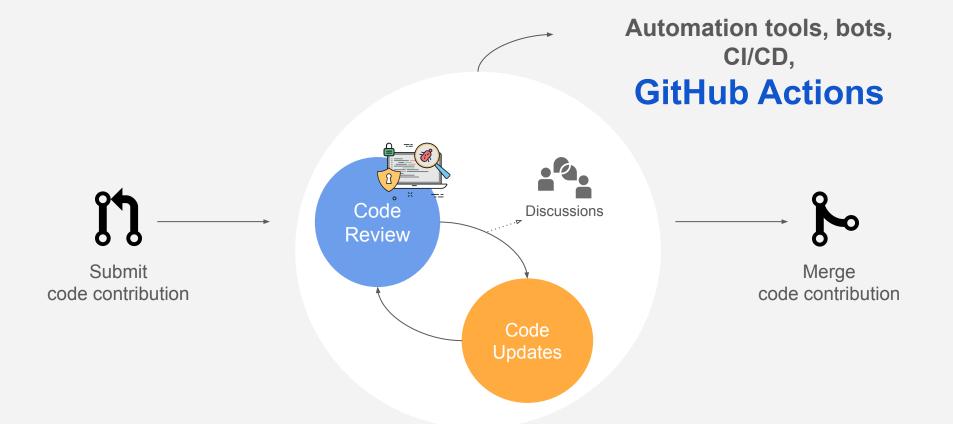


Pull Request Review Process

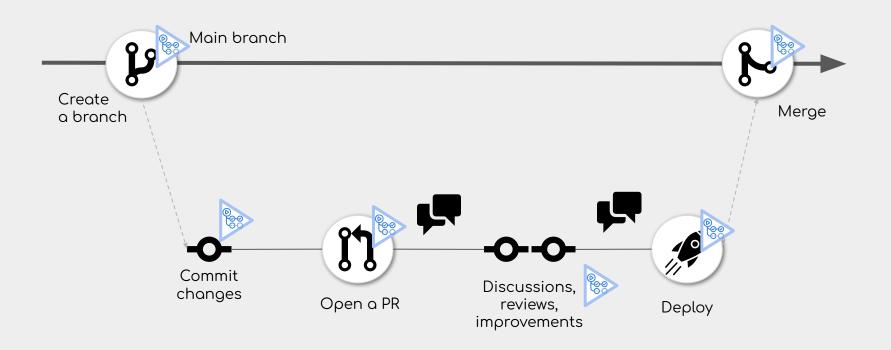


Pull Request Review Process

## GitHub Actions

An event-driven API to automate development workflows.

## GitHub Workflow automation with GitHub Actions



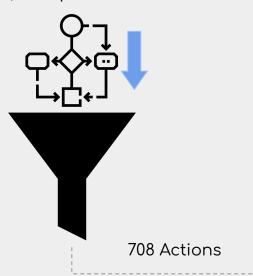
### The Gammapy example: Greetings action



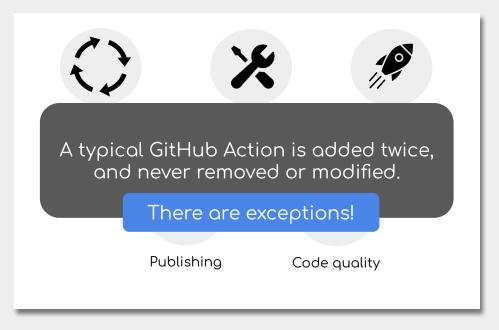
## How developers use GitHub Actions

### Usage of GitHub Actions

Workflow files from 3,190 repositories



#### Categories of Actions



# How developers discuss about GitHub Actions

#### Discussions about GitHub Actions



Manual analysis of **209 issues** 



GitHub Actions Maintenance



Announcement of GitHub Actions



Requesting GitHub Actions to be implemented



Switching CI/CD tools to GitHub Actions



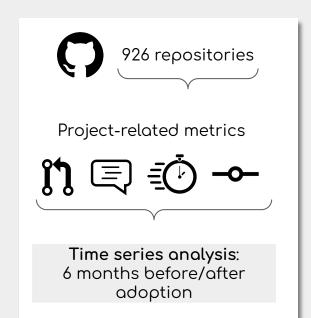
GitHub Actions problems and frustrations



Others

# The impact of using GitHub Actions

### Impacts of GitHub Actions usage







#### Perception vs. Reality

Adopting GitHub Actions is taking a dependency not a tooling!





Using GitHub Actions might also impact the community and project dynamics!

#### What can you do?

#### Measure the difference!

If you are considering using GitHub Actions...

- ... and you care about performance → measure changes in the code
- 2. ... and you care about **community** → measure **changes** in **developers' communication**

