GitHub Marketplace

Sesión 5

Agenda

- Qué es el GitHub Marketplace
- Usando GitHub Actions del GitHub Marketplace
- Publicando GitHub Actions personalizadas
- Ejercicios prácticos:
  - Usando GitHub Actions del GitHub Marketplace
  - Publicar GitHub Actions personalizadas al GitHub Marketplace

¿Qué es el GitHub Marketplace?

Marketplace

Type / to search

github.com/marketplace

Enhance your workflow with extensions

Tools from the community and partners to simplify tasks and automate processes

type:actions

- Featured
- Copilot
- Models
- Apps
- Actions
  - All actions
  - AI Assisted
  - API management
  - Backup Utilities
  - Chat
  - Code quality
  - Code review
  - Code Scanning Ready
  - Code search
  - Container CI
  - Continuous integration

Actions

Automate your workflow from idea to production

Filter: All | By: All creators | Sort: Popularity

TruffleHog OSS Action
Find and verify leaked credentials in your source code

Metrics embed Action
An infographics generator with 40+ plugins and 300+ options to display stats about your GitHub account

yq - portable yaml processor Action
create, read, update, delete, merge, validate and do more with yaml

Super-Linter Action
Super-linter is a ready-to-run collection of linters and code analyzers, to help validate your source code

Gosec Security Checker Action
Runs the gosec security checker

Rebuild Armbian and Kernel Action
Support Amlogic, Rockchip and Allwinner boxes

OpenCommit — improve commits with ... Action
Replaces lame commit messages with meaningful AI-generated messages when you push to remote

Checkout Action
Checkout a Git repository at a particular version

GitHub Marketplace

- GitHub Marketplace es una plataforma que permite a los desarrolladores y equipos descubrir, comprar e integrar herramientas y aplicaciones que amplían la funcionalidad de GitHub.

- Ofrece una amplia gama de herramientas, desde herramientas de CI/CD y modelos de IA hasta aplicaciones de gestión de proyectos.

- Acceso centralizado a herramientas desde tu cuenta de GitHub.
- Integración perfecta con tus repositories y workflows.
- Amplia variedad de aplicaciones
- Modelos de precios flexibles
- Facturación simplificada

Categorías del Marketplace

- Extensiones de **Copilot**
- **Modelos** de Inteligencia Artificial
- **Aplicaciones** para integrarlas en tus workflows
- **Actions** para automatizar tus workflows

Featured
Copilot
Models
Apps
Actions
Create a new extension

Copilot Extensions

Extend Copilot capabilities using third party tools, services, and data

Filter: All | By: All creators | Sort: Popularity

PerplexityAI Copilot
Perplexity answers questions as you code by searching the web

Docker for GitHub Copilot Copilot
Learn about containerization, generate Docker assets and analyze project vulnerabilities in GitHub Copilot

Stack Overflow Copilot
Get answers to your most complex coding questions right where you're already working

Models (GitHub) Copilot
Copilot Extension to connect and chat with GitHub Models

Mermaid Chart Copilot
Provides advanced and powerful diagramming and visualization to GitHub Copilot Chat

GitBook for GitHub Copilot Copilot
Leverage your GitBook documentation to answer questions, providing instant responses in your workflow

Microsoft 365 Agents Toolkit Copilot
Chats with GitHub Copilot extension for Microsoft 365 Agents Toolkit to build applications and agents for Microsoft 365

ReadMe API Copilot
Ask questions about the ReadMe API and get help with code, directly in VS code

Product Science Copilot
Get help with performance optimization techniques to make your code faster

Sentry for GitHub Copilot Copilot
The Sentry Copilot Extension allows developers to fix broken code from the GitHub UI

Agentic Search Ai Copilot
This extension leverages the power of agentic systems to enhance your coding experience. Agentic systems are intelligent ent

DataStax Copilot
Chat with your data! Write queries and code with natural language

Octopus for GitHub Copilot Copilot
The Octopus extension allows a cloud hosted Octopus instance to

LambdaTest Copilot
Design, implement and analyze test automation right where you

Models

Create applications with GitHub powered by AI Models. Free to use, quick personal setup, and seamless model switching to help you build AI products using the latest models.

Preview Give feedback

Recently added | Most popular

Try models in playground

Model
DeepSeek-R1-0528
by DeepSeek
The DeepSeek R1 0528 model has improved reasoning capabilities, this version also offe...

Model
Grok 3 Mini
by xAI
Grok 3 Mini is a lightweight model that thinks before responding. Trained on mathematic...

Model
Grok 3
by xAI
Grok 3 is xAI's debut model, pretrained by Colossus at supermassive scale to excel in...

Publisher: All | Capability: All | Category: All | Sort: Recently added

DeepSeek-R1-0528 Model
The DeepSeek R1 0528 model has improved reasoning capabilities, this version also offers a reduced hallucination rate, enhanced...

Grok 3 Mini Model
Grok 3 Mini is a lightweight model that thinks before responding. Trained on mathematic and scientific problems, it is great for logi...

Grok 3 Model
Grok 3 is xAI's debut model, pretrained by Colossus at supermassive scale to excel in specialized domains like finance,...

Mistral Medium 3 (25.05) Model
Mistral Medium 3 is an advanced Large Language Model (LLM) with state-of-the-art reasoning, knowledge, coding and vision...

Phi-4-Reasoning Model
State-of-the-art open-weight reasoning model.

Phi-4-mini-reasoning Model
Lightweight math reasoning model optimized for multi-step problem solving

MAI-DS-R1 Model
MAI-DS-R1 is a DeepSeek-R1 reasoning model that has been post-

OpenAI o4-mini Model
o4-mini includes significant improvements on quality and safety

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Container CI
Continuous integration
Dependency management
Deployment
Deployment Protection Rules
Desktop tools
IDEs
Learning
Localization
Mobile
Mobile CI
Monitoring
Open Source management
Project management

Apps

Build on your workflow with apps that integrate with GitHub

Filter: All | By: All creators | Sort: Popularity

GitGuardian
App
Secrets Security Platform - The most downloaded GitHub app lets you find and fix hardcoded API keys in code

CircleCI
App
Automatically build, test, and deploy your project in minutes

Azure Pipelines
App
Continuously build, test, and deploy to any platform and cloud

Slack + GitHub
App
Connect your code without leaving Slack

Zenhub
App
Project management that's seamlessly integrated with GitHub's data & interface, builds powerful insights & automates tasks

Jira Software + GitHub
App
GitHub for Jira synchronizes development across tools and uses automation to remove manual steps and shorten delivery time

Snyk
App
Find, fix (and prevent!) known vulnerabilities in your code

AWS Connector for GitHub
App
Enables AWS services to get notified on repository events, and download source code to build, test and deploy

SonarQube Cloud
App
Empowering developers to detect Security Vulnerabilities, Bugs, and Code Smells in pull requests and repositories

Google Cloud Build
App
Build, test, & deploy in a fast, consistent, and secure manner

WakaTime
App
Metrics, goals, and time tracking automatically generated from your programming activity

Azure Pipelines (OAuth)
App
Continuously build, test, and deploy to any platform and cloud

Shopify
App
Build themes and headless faster with Shopify for GitHub. Connect any repository, then push to deploy

Azure Boards
App
Connects Azure Boards with GitHub to plan, track, and discuss work across your teams

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  - Container CI
  - Continuous integration
  - Dependency management
  - Deployment
  - Deployment Protection Rules
  - Desktop tools
  - Game CI
  - GitHub Sponsors
  - IDEs
  - Learning
  - Localization
  - Mobile
  - Mobile CI

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OpenCommit — improve commits with ... — Action
Replaces lame commit messages with meaningful AI-generated messages when you push to remote

Checkout ✓ — Action
Checkout a Git repository at a particular version

SSH Remote Commands — Action
Executing remote ssh commands

GitHub Pages action — Action
GitHub Actions for GitHub Pages 🚀 Deploy static files and publish your site easily. Static-Site-Generators-friendly

generate-snake-game-from-github-... — Action
Generates a snake game from a github user contributions grid. Output the animation as gif or svg

Cache ✓ — Action
Cache artifacts like dependencies and build outputs to improve workflow execution time

GH Release — Action
Github Action for creating Github Releases

Build and push Docker images ✓ — Action
Build and push Docker images with Buildx

Deploy to GitHub Pages Actions

Star 4.4K | Use latest version

GitHub Pages Deploy Action 🚀

Automatically deploy your project to GitHub Pages with GitHub Actions. This action can be configured to push your production-ready code into any branch you'd like, including **gh-pages** and **docs**. It can also handle cross repository deployments and works with GitHub Enterprise too.

Maintenance of this project is made possible by all the contributors and sponsors. If you'd like to sponsor this project and have your avatar or company logo appear below click here. 💖

About

This action will handle the deployment process of your project to GitHub Pages

v4.7.3 Latest

By JamesIves

Tags 2

deployment publishing

Contributors 39

+ 25 contributors

Resources

- Start a discussion
- Open an issue 7
- Pull requests 3
- View source code
- Security policy
- Report abuse

Getting Started ✈️

You can include the action in your workflow to trigger on any event that GitHub actions supports. If the remote branch that you wish to deploy to doesn't already exist the action will create it for you. Your workflow will also need to include the `actions/checkout` step before this workflow runs in order for the deployment to work. If you intend to make multiple deployments in quick succession you may need to leverage the concurrency parameter in your workflow to prevent overlaps.

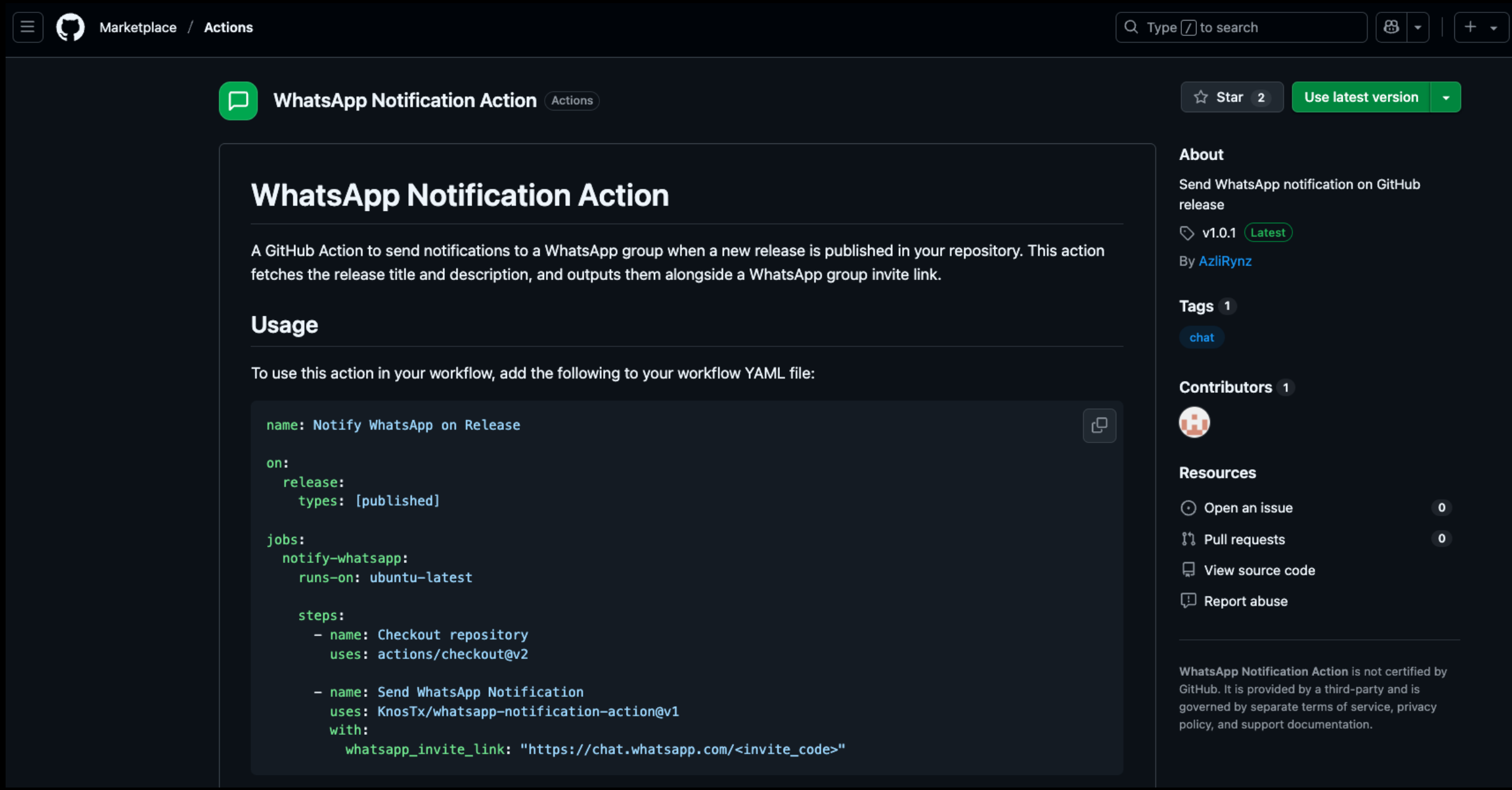
You can view an example of this below.

```yaml
name: Build and Deploy
on: [push]
permissions:
  contents: write
jobs:
  build-and-deploy:
    concurrency: ci-${{ github.ref }} # Recommended if you intend to make multiple deployments in quick succ
    runs-on: ubuntu-latest
    steps:
      - name: Checkout 🔔
        uses: actions/checkout@v4

      - name: Install and Build 🔧 # This example project is built using npm and outputs the result to the '
        run: |
          npm ci
          npm run build

      - name: Deploy 🚀
        uses: JamesIves/github-pages-deploy-action@v4
        with:
          folder: build # The folder the action should deploy.
```

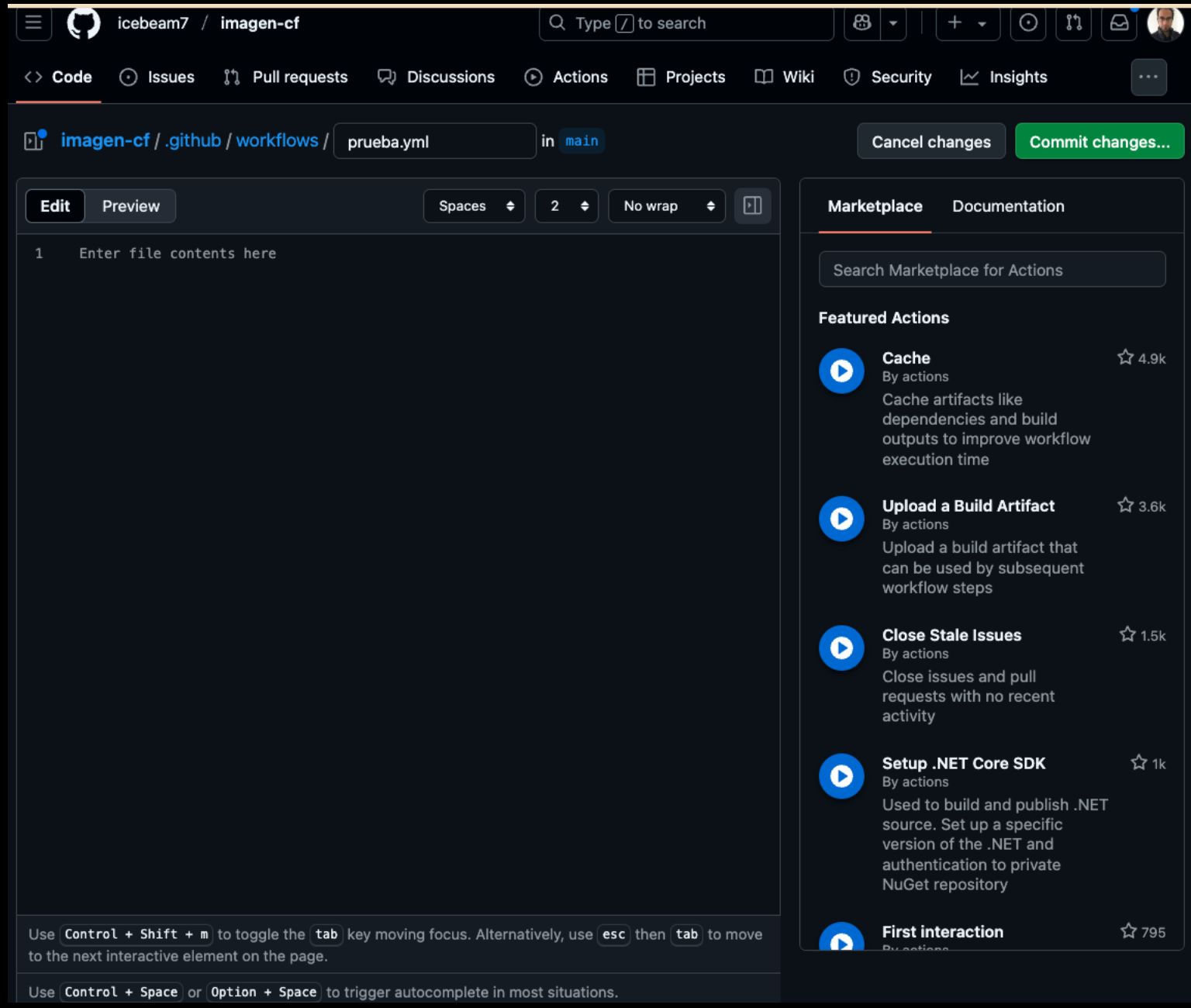
> **Note**
>
> You must configure your repository to deploy from the branch you push to. To do this, go to your repository settings, click on `Pages`, and choose `Deploy from a Branch` from the `Source` dropdown. From there select the branch you supplied to the action. In most cases this will be `gh-pages` as that's the default.

If you'd like to make it so the workflow only triggers on push events to specific branches then you can modify the `on`

Usando GitHub Actions del GitHub Marketplace

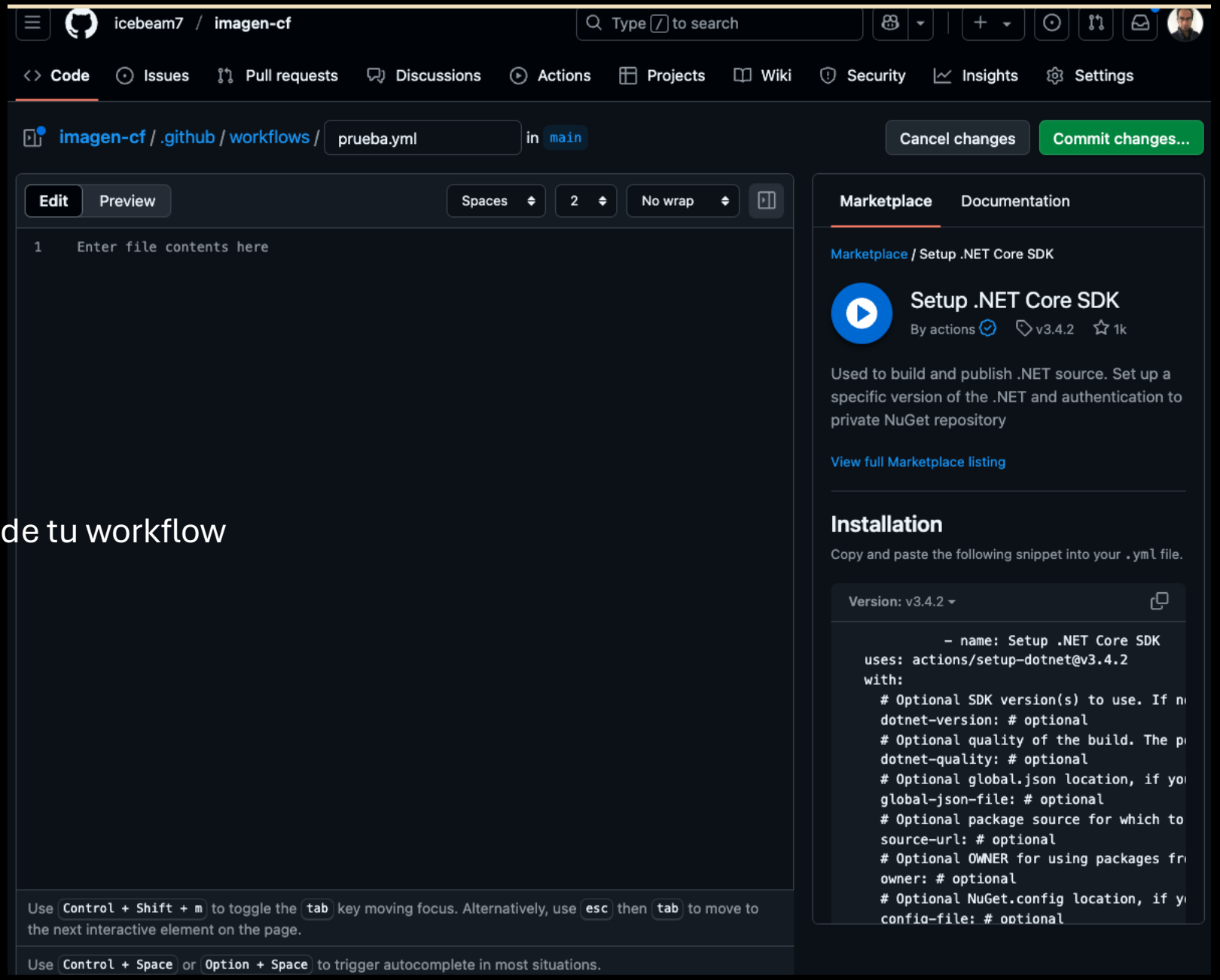


Revisando una acción desde el Marketplace



Revisando la lista de acciones del Marketplace desde un workflow en GitHub

Verificando cómo utilizar una acción desde tu workflow



Demo

Publicando GitHub Actions personalizadas

GitHub Actions personalizadas

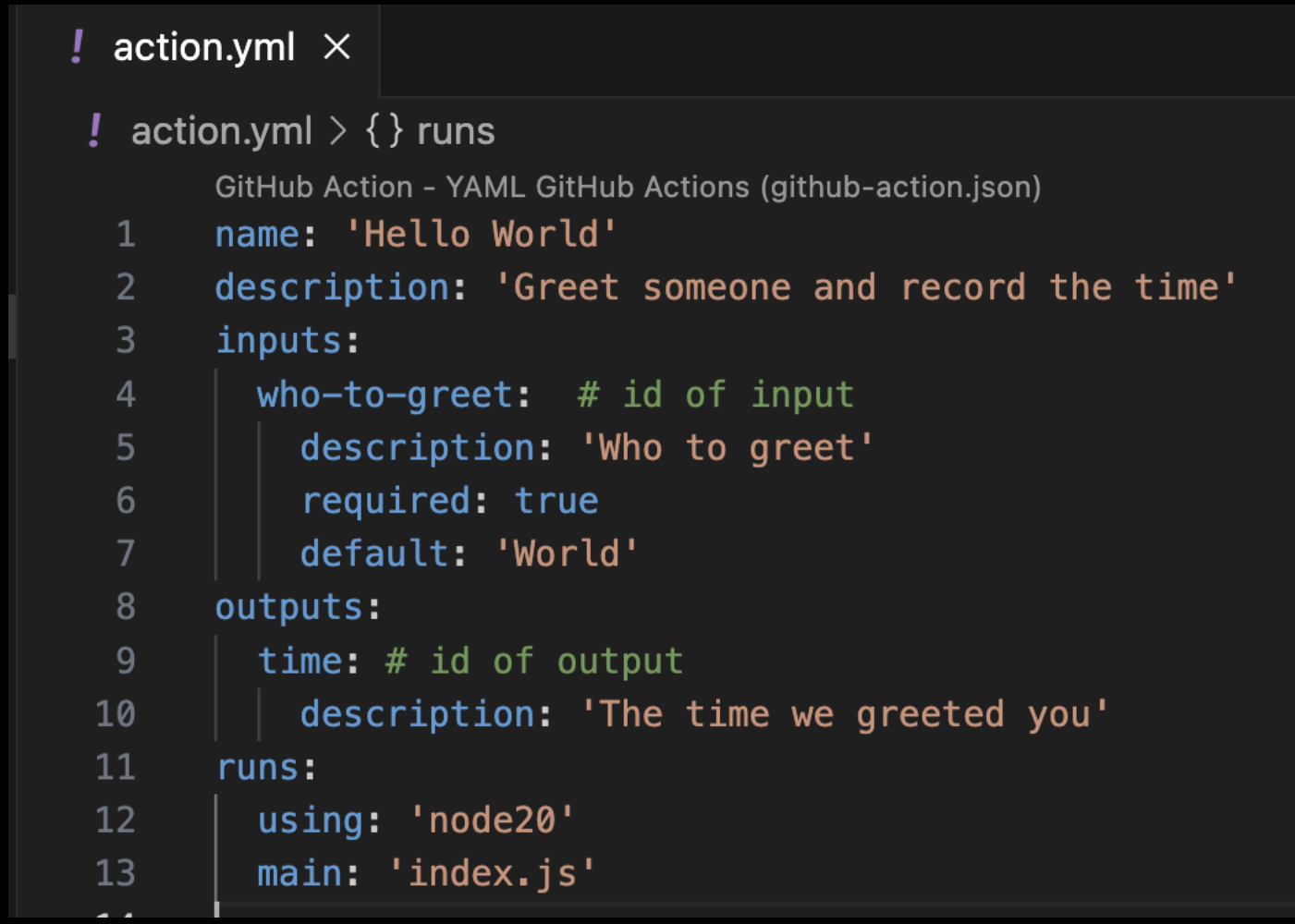
- Las acciones son tareas individuales que puedes usar para personalizar los flujos de trabajo de desarrollo.

- Puedes crear acciones propias escribiendo un código personalizado que interactúe con tu repositorio de la manera que desees, incluida la integración con las API de GitHub y cualquier API de terceros disponible públicamente.

- Por ejemplo, una acción puede publicar módulos npm, enviar alertas por SMS cuando se crean problemas urgentes o implementar código listo para producción.

Archivo de metadatos

- Las acciones requieren un archivo de metadatos para definir las entradas, salidas y puntos de entrada para tu acción.
- El nombre del archivo de metadatos debe ser **action.yml**
- Elementos
  - name, description, inputs, outputs, runs



Archivo README

Un archivo README para ayudar a las personas a que aprendan a usar tu acción.

Puedes incluir esta información en README.md:

- Una descripción detallada de lo que hace la acción.
- Argumentos obligatorios de entrada y salida.
- Argumentos opcionales de entrada y salida.
- Secretos que utiliza la acción.
- Variables de entorno que utiliza la acción.
- Un ejemplo de cómo usar tu acción en un flujo de trabajo.

README.md M

README.md > # Hello world javascript action > ## Outputs > ### time

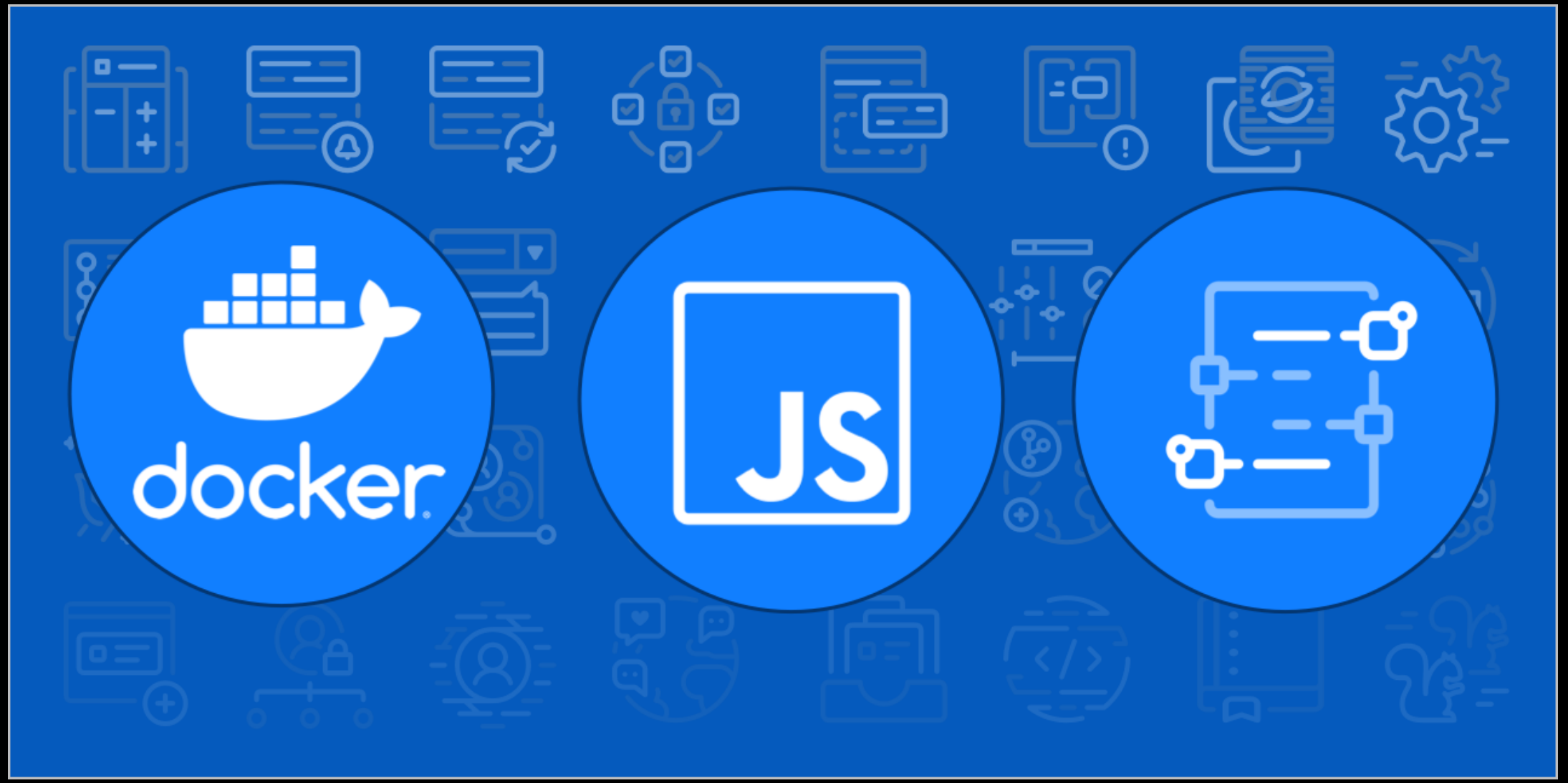
You, 5 minutes ago | 1 author (You)

```
1  # Hello world javascript action
2
3  This action prints "Hello World" or "Hello" + the name of a person to greet to
   the log.
4
5  ## Inputs
6
7  ### `who-to-greet`
8
9  **Required** The name of the person to greet. Default `"World"`.
10
11 ## Outputs
12
13 ### `time`      You, 9 minutes ago • My first action is ready …
14
15 The time we greeted you.
16
17 ## Example usage
18
19 ```yaml
20 uses: actions/ejemplo-actionsjs@v1
21 with:
22   who-to-greet: 'Mona the Octocat'
23 ```
```

Como regla general, el archivo README.md debe incluir todo lo que un usuario debe saber para usar la acción.

Si cree que podría ser información útil, inclúyela en README.md.

Tipos de acciones personalizadas



Docker Container Actions

- Los contenedores Docker empaquetan el entorno con el código GitHub Actions.
- Esto crea una unidad de trabajo más consistente y confiable, ya que el consumidor de la acción no necesita preocuparse por las herramientas o las dependencias.
- Un contenedor Docker te permite usar versiones específicas de un sistema operativo, dependencias, herramientas y código.

- Para las acciones que se deben ejecutar en una configuración de entorno específica, Docker es una opción ideal ya que puedes personalizar el sistema operativo y las herramientas.

- **Debido a la latencia para crear y recuperar el contenedor, las acciones del contenedor Docker son más lentas que las acciones de JavaScript.**

- Las acciones de contenedor de Docker solo pueden ejecutarse en ejecutores con un sistema operativo Linux.

- Los runners auto-hospedados deberán utilizar un sistema operativo Linux y tener Docker instalado para ejecutar las acciones de contenedores de Docker.

Pasos para crear una Docker Container Action

- Cree un elemento Dockerfile a fin de definir los comandos para ensamblar la imagen de Docker.

- Cree un archivo de metadatos **action.yml** para definir las entradas y salidas de la acción. En el archivo, establezca:
  - runs: using: docker
  - runs: image: Dockerfile

- Cree un archivo **entrypoint.sh** para describir la imagen de Docker.

- Confirme e inserte la acción en GitHub con los archivos siguientes: **action.yml, entrypoint.sh, Dockerfile y README.md.**

JavaScript Actions

- Las JavaScript Actions separan el código de acción del entorno que se usa para ejecutar la acción. Por este motivo, el código de acción se simplifica y **se puede ejecutar más rápido que las acciones dentro de un contenedor de Docker.**

- Como requisito previo para crear y usar acciones de JavaScript empaquetadas, **debe descargar Node.js**, que incluye **npm**.

- Como paso opcional (pero recomendado), use el módulo GitHub Actions Toolkit de Node.js, que es una recopilación de paquetes de Node.js que le permite crear rápidamente acciones de JavaScript con más coherencia.

Pasos para crear una JavaScript Action

- Cree un archivo de metadatos **action.yml** para definir las entradas y salidas de la acción, así como para indicarle al runner de acciones cómo empezar a ejecutar esta acción de JavaScript.

- Cree un archivo **index.js** con información de contexto sobre los paquetes del kit de herramientas, el enrutamiento y otras funciones de la acción.

- Confirme e inserte la acción en GitHub con los archivos siguientes: **action.yml, index.js, node_modules, package.json, package-lock.json y README.md**.

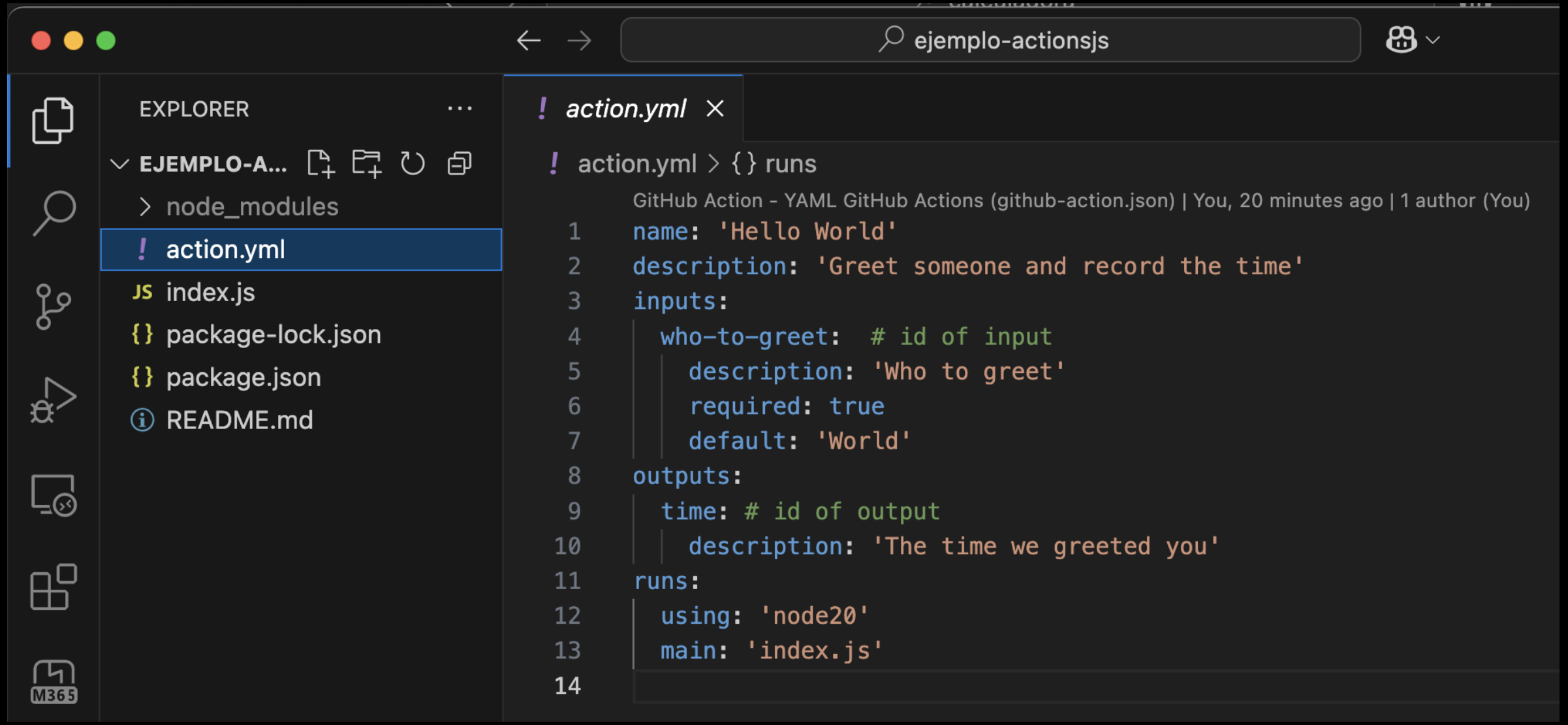
Composite Actions

- Las acciones de pasos de ejecución compuestos permiten reutilizar acciones mediante scripts de shell. Incluso puede combinar varios lenguajes de shell dentro de la misma acción.

- Si tiene muchos scripts de shell para automatizar varias tareas, ahora puede convertirlos fácilmente en una acción y reutilizarlos para diferentes flujos de trabajo.

- A veces es más fácil escribir un script de shell que usar JavaScript o encapsular el código en un contenedor de Docker.

Demo: Creando una GitHub Action de JavaScript personalizada


ejemplo-actionsjs
EXPLORER
EJEMPLO-A...
node_modules
action.yml
index.js
package-lock.json
package.json
README.md
action.yml
action.yml > { } runs
GitHub Action - YAML GitHub Actions (github-action.json) | You, 20 minutes ago | 1 author (You)
1 name: 'Hello World'
2 description: 'Greet someone and record the time'
3 inputs:
4 who-to-greet: # id of input
5 description: 'Who to greet'
6 required: true
7 default: 'World'
8 outputs:
9 time: # id of output
10 description: 'The time we greeted you'
11 runs:
12 using: 'node20'
13 main: 'index.js'
14

Publicando una GitHub Action de Docker personalizada

Ubicación de la acción (Visibilidad)

- Pública (Marketplace)

- Privada (solo flujos de trabajo del mismo repositorio pueden utilizarla)

Recomendaciones: Tags

- Las etiquetas pueden ser una buena manera de administrar las versiones de una acción.

- Con las etiquetas, los usuarios pueden distinguir fácilmente entre versiones principales y secundarias.

Valor SHA de un commit

- Las etiquetas son útiles y se utilizan con frecuencia, pero una desventaja de su uso es que se pueden eliminar o mover.

- Con Git, cada commit recibe un valor **SHA** calculado, que es único y no se puede modificar.

- El uso de un valor SHA de confirmación para el control de versiones constituye la manera más confiable y segura de crear versiones y usar una acción.
  - **Pero a menudo en Git puede abreviar el hash SHA a los primeros caracteres y Git reconocerá la referencia. Si usas el valor SHA de la confirmación para la administración de versiones, debes usar el valor completo y no el abreviado.**

Demo: Publicando una GitHub Action Composite personalizada

ejemplo-actionsjs Public

Pin Watch 0

You can publish this Action to the GitHub Marketplace

Draft a release

main 1 Branch 1 Tag

Go to file t

Add file

Code

icebeam7 My first action is ready aecf345 · 1 minute ago 1 Commit

.gitignore	My first action is ready	1 minute ago
README.md	My first action is ready	1 minute ago
action.yml	My first action is ready	1 minute ago
index.js	My first action is ready	1 minute ago
package-lock.json	My first action is ready	1 minute ago
package.json	My first action is ready	1 minute ago

README

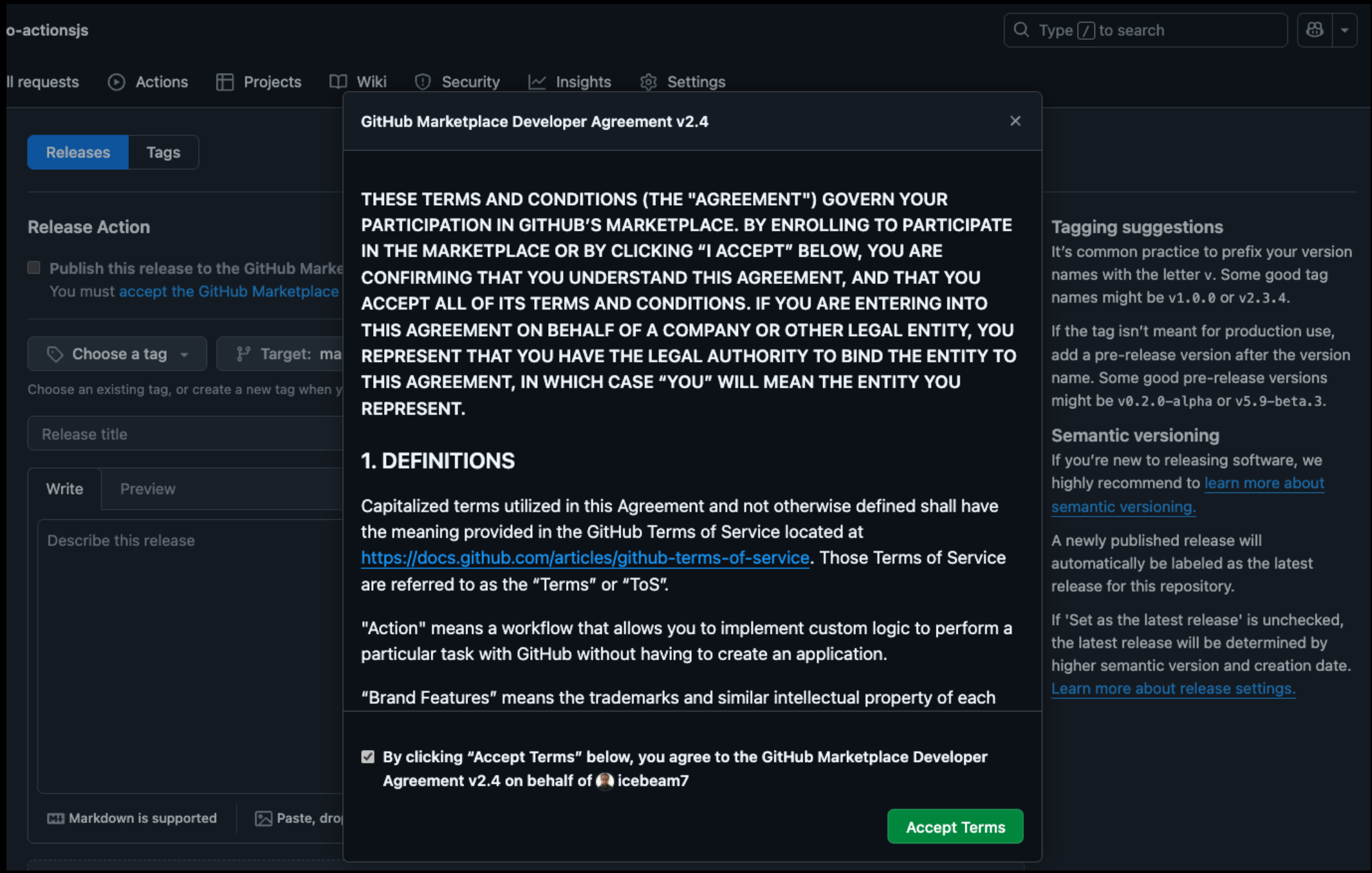
Hello world javascript action

This action prints "Hello World" or "Hello" + the name of a person to greet to the log.

Inputs

Requisitos para publicar un acción en GitHub Marketplace

- La acción debe estar en un repositorio **público**.
- Cada repositorio debe contener **una sola acción**.
- El archivo de metadatos de la acción (**action.yml**) debe estar en el **directorio raíz** del repositorio.
  - En el archivo de metadatos de la acción, **name** debe ser único en GitHub Marketplace.
  - El nombre no puede coincidir con un usuario u organización en GitHub, a menos que el usuario o el propietario de la organización publique la acción. Por ejemplo, solo la organización de GitHub puede publicar una acción denominada github.
  - name no puede coincidir con una categoría existente en Marketplace de GitHub.
  - name no puede coincidir con una característica existente de GitHub.
- Aeptar el Acuerdo de Desarrollador de GitHub Marketplace


o-actionsjs
Type / to search
ll requests
Actions
Projects
Wiki
Security
Insights
Settings
Releases
Tags
Release Action
Publish this release to the GitHub Marke
You must accept the GitHub Marketplace
Choose a tag
Target: ma
Choose an existing tag, or create a new tag when y
Release title
Write
Preview
Describe this release
Markdown is supported
Paste, dro
GitHub Marketplace Developer Agreement v2.4
THESE TERMS AND CONDITIONS (THE "AGREEMENT") GOVERN YOUR PARTICIPATION IN GITHUB'S MARKETPLACE. BY ENROLLING TO PARTICIPATE IN THE MARKETPLACE OR BY CLICKING "I ACCEPT" BELOW, YOU ARE CONFIRMING THAT YOU UNDERSTAND THIS AGREEMENT, AND THAT YOU ACCEPT ALL OF ITS TERMS AND CONDITIONS. IF YOU ARE ENTERING INTO THIS AGREEMENT ON BEHALF OF A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT THAT YOU HAVE THE LEGAL AUTHORITY TO BIND THE ENTITY TO THIS AGREEMENT, IN WHICH CASE "YOU" WILL MEAN THE ENTITY YOU REPRESENT.
1. DEFINITIONS
Capitalized terms utilized in this Agreement and not otherwise defined shall have the meaning provided in the GitHub Terms of Service located at https://docs.github.com/articles/github-terms-of-service. Those Terms of Service are referred to as the "Terms" or "ToS".
"Action" means a workflow that allows you to implement custom logic to perform a particular task with GitHub without having to create an application.
"Brand Features" means the trademarks and similar intellectual property of each
By clicking "Accept Terms" below, you agree to the GitHub Marketplace Developer Agreement v2.4 on behalf of icebeam7
Accept Terms
Tagging suggestions
It's common practice to prefix your version names with the letter v. Some good tag names might be v1.0.0 or v2.3.4.
If the tag isn't meant for production use, add a pre-release version after the version name. Some good pre-release versions might be v0.2.0-alpha or v5.9-beta.3.
Semantic versioning
If you're new to releasing software, we highly recommend to learn more about semantic versioning.
A newly published release will automatically be labeled as the latest release for this repository.
If 'Set as the latest release' is unchecked, the latest release will be determined by higher semantic version and creation date.
Learn more about release settings.

Releases | Tags

Release Action

Publish this Action to the GitHub Marketplace
Your Action will be discoverable in the Marketplace and available in GitHub search.

action.yml

⚠ Improve your Action by adding labels for icon and color.

✓ Name	**Hello World by Luis B**
✓ Description	Greet someone and record the time
⚠ Icon	See list of available icons.
⚠ Color	See list of available colors.

README

✓ A README exists.

Primary Category

Utilities

Another Category — *optional*

Choose an option

v1.3 | Generate release notes

v1.3.0 | Target: main | Previous tag: auto | Generate release notes

Excellent! This tag will be created from the target when you publish this release.

Hello World Message by Luis

Write | Preview

This is my Hello World Action

Markdown is supported | Paste, drop, or click to add files

Attach binaries by dropping them here or selecting them.

- [ ] **Set as a pre-release**
  This release will be labeled as non-production ready

- [x] **Set as the latest release**
  This release will be labeled as the latest for this repository.

Publish release | Save draft

Hello World Message by Luis

Latest Marketplace

Compare

icebeam7 released this now v1.3.0 6910594

This is my Hello World Action

Assets 2

Source code (zip)	5 minutes ago
Source code (tar.gz)	5 minutes ago

ejemplo-actionsjs Public

Pin Watch 0 Fork 0 Star 0

Use this GitHub action with your project
Add this Action to an existing workflow or create a new one

View on Marketplace

main 1 Branch 5 Tags Go to file t Add file Code

About

No description, website, or topics provided.

Readme

Hello World by Luis B

Actions

Star 0

Use latest version

Hello world javascript action

This action prints "Hello World" or "Hello" + the name of a person to greet to the log.

Inputs

`who-to-greet`

Required The name of the person to greet. Default `"World"`.

Outputs

`time`

The time we greeted you.

Example usage

```
uses: actions/ejemplo-actionsjs@v1
with:
  who-to-greet: 'Mona the Octocat'
```

About

Greet someone and record the time

v1.3.0 Latest

By icebeam7

Tags 1

utilities

Contributors 1

Resources

Open an issue 0

Pull requests 0

View source code

Report abuse

Delist action