

GitHub Apps documentation

Go deeper with GitHub by integrating with our APIs and webhooks, customizing your GitHub workflow, and building and sharing apps with the community.

[Overview](#)[Quickstart](#)

Start here

About using GitHub Apps

Learn about what a GitHub App is and why you would use a GitHub App.

About creating GitHub Apps

GitHub Apps let you build integrations to automate processes and extend GitHub's functionality.

Differences between GitHub Apps and OAuth apps

In general, GitHub Apps are preferred to OAuth apps because they use fine-grained permissions, give more control over which repositories the app can access, and use short-lived tokens.

About authentication with a GitHub App

Your GitHub App can authenticate as itself, as an app installation, or on behalf of a user.

Popular

Registering a GitHub App

You can register a GitHub App under your personal account or under any organization you own.

Authorizing GitHub Apps

You can authorize a GitHub App to retrieve information about your GitHub account and to make changes on your behalf.

Building a GitHub App that responds to webhook events

Learn how to build a GitHub App that makes an API request in response to a webhook event.

Building a "Login with GitHub" button with a GitHub App

Follow this tutorial to write Ruby code to generate a user access token via the web application flow for your GitHub App.

What's new [View all →](#)

X-Accepted-GitHub-Permissions header for fine-grained permission actors

Updates to GitHub App installation management APIs

June 09

GraphQL improvements for fine-grained PATs and GitHub Apps

April 27

Guides

Building a GitHub App that responds to webhook events

Learn how to build a GitHub App that makes an API request in response to a webhook event.

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Building a "Login with GitHub" button with a GitHub App

Follow this tutorial to write Ruby code to generate a user access token via the web application flow for your GitHub App.

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Building a CLI with a GitHub App

Follow this tutorial to write a CLI in Ruby that generates a user access token for a GitHub App via the device flow.

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Making authenticated API requests with a GitHub App in a GitHub Actions workflow

You can use an installation access token from a GitHub App to make authenticated API requests in a GitHub Actions workflow. You can also pass the token to a custom action to enable the action to make authenticated API requests.

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All Apps docs

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