

# 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

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## About using GitHub Apps

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

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## About creating GitHub Apps

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

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## 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.

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## About authentication with a GitHub App

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

Popular

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## Registering a GitHub App

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

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## Authorizing GitHub Apps

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

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## 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.

What's new [View all →](#)

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

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## Updates to GitHub App installation management APIs

June 09

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## 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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