GitHub language support

In this article

About supported languages

Core languages supported by GitHub features

An overview of the programming languages supported by GitHub features.

About supported languages 🔗

Most GitHub features work regardless of which languages your code is written in. You can search for code or enable syntax highlighting based on any language known to GitHub. For more information, see "Understanding GitHub Code Search syntax" or "Creating and highlighting code blocks."

Some GitHub products have features that are currently only supported for a subset of programming languages.

Core languages supported by GitHub features 🔗

Core languages for GitHub features include C, C++, C#, Go, Java, JavaScript, PHP, Python, Ruby, Scala, and TypeScript. For features that support package managers, the currently supported package managers are included in the table with their relevant languages.

Some features are supported for additional languages or package managers. If you want to know whether another language is supported for a feature or to request support for a language, visit GitHub Community discussions.

Language	GitHub Copilot	Code navigation	Code scanning	Dependency graph, Dependabot alerts	Dependabot version updates, Dependabot security updates	GitHub Actions	GitHub Packages
C	✓	✕	✓	✕	✕	✓	✕
C++	✓	✕	✓	✕	✕	✓	✕
C#	✓	✓	✓	✓ `dotnet` CLI	✓ `dotnet` CLI	✓	✓ `dotnet` CLI
Go	✓	✓	✓	✓ Go modules	✓ Go modules	✓	✕

Language							
Java	✓	✓	✓	✓ Maven, Gradle	✓ Maven, Gradle	✓	✓ Maven, Gradle
JavaScript	✓	✓	✓	✓ npm, Yarn	✓ npm	✓	✓ npm
PHP	✓	✓	✓	✓ Composer	✓ Composer	✓	✗
Python	✓	✓ precise	✓	✓ pip	✓ pip	✓	✗
Ruby	✓	✓	✓	✓ RubyGems	✓ RubyGems	✓	✓ RubyGems
Scala	✓	✗	✓	✓ Maven	✓ Maven, Gradle	✓	✗
Swift	✓	✓	✓	✓	✓	✓	✓ Swift Package Manager
TypeScript	✓	✓	✓	✓ npm, Yarn	✓ npm	✓	✓ npm

> **Notes:**
>
> - The support of Gradle for the dependency graph and Dependabot alerts is limited to the upload of data obtained using the dependency submission API.
> - PHP and Scala are supported for code scanning by third-party actions.

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