

Github Codespaces

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What is Github Codespaces?

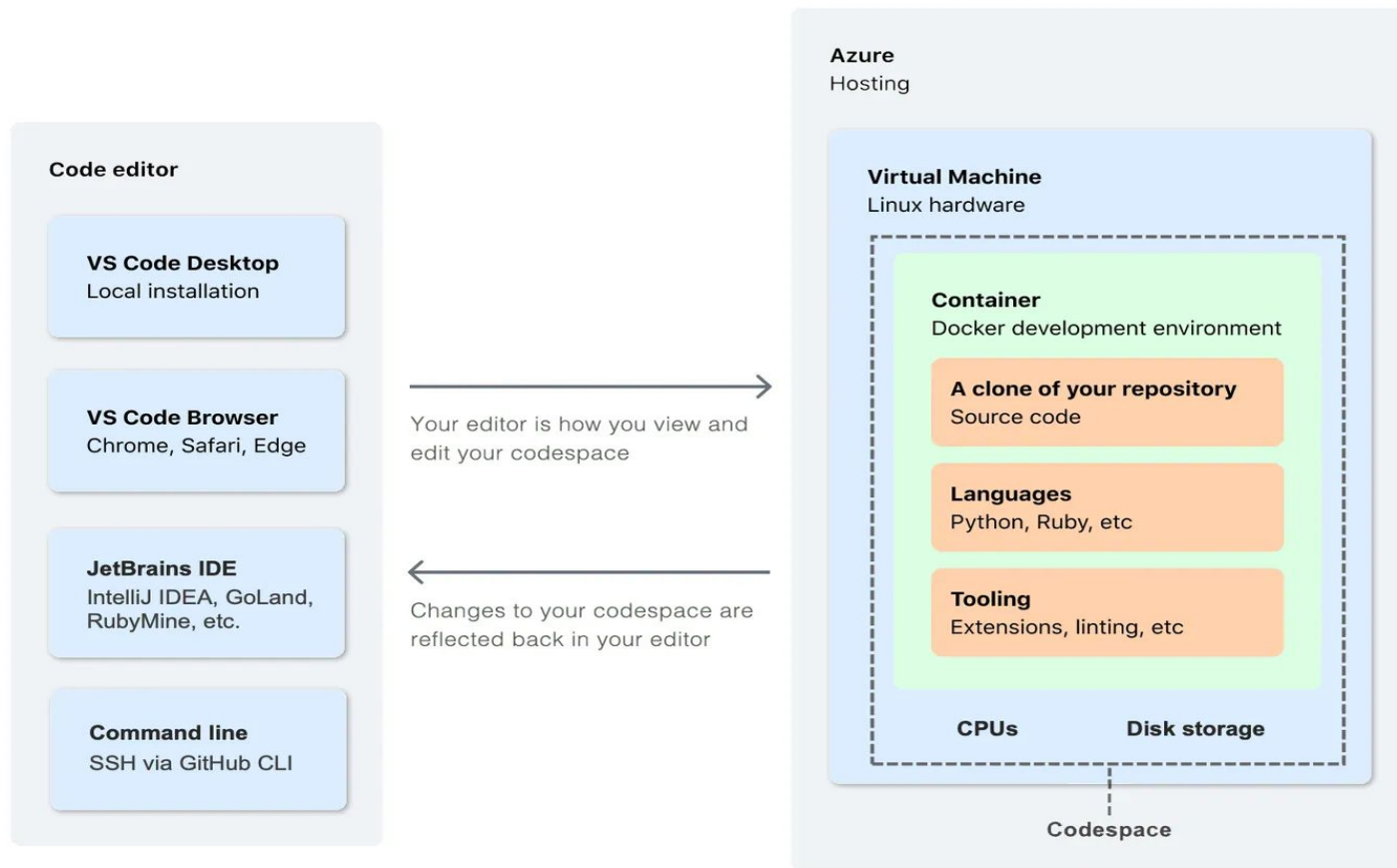
GitHub Codespaces is a **cloud-based development environment** that allows you to write, edit, and collaborate on code from anywhere with an internet connection.

Features:

- ❑ Integrated code editor.
- ❑ Terminal.
- ❑ Suite of development tools in the cloud.

Why Github Codespaces?

- ❑ It streamlines setup, fosters collaboration, and integrates seamlessly with GitHub repositories.
- ❑ Eliminating the need for complex local development setups and making it easier to work on projects.
- ❑ Enhancing team collaboration and version control.
- ❑ Ultimately improving developer productivity and project management.



Benefits of GitHub Codespaces

- Accessibility: Work from any device with internet access.
- Collaboration: Real-time code collaboration with team members.
- Environment consistency: Ensure that everyone works with the same setup.
- Easy setup: No need to configure your development environment locally.
- Scalability: Easily scale your development resources.
- Cost savings: Reduced hardware and infrastructure costs.



Getting Started

- Sign up for GitHub Codespaces
- Creating your first Codespace
- Supported programming languages



Cost and Pricing

2 cores	60 hours free /month	\$0.18 /additional hour
4 cores	30 hours free /month	\$0.36 /additional hour
8 cores	15 hours free /month	\$0.72 /additional hour
16+ cores	N/A	See pricing docs
Storage	15 GB free /month	\$0.07 /GB per month

Supported Editors

- Jupyter Notebook
- Visual Studio Code
- IntelliJ IDEA
- RubyMine
- GoLand
- PyCharm
- PhpStorm
- WebStorm

Alternatives

- Gitpod
- Coder
- Devpod

Things you can do with codespaces

- Generate AI Images
- Manage GitHub Codespaces from the command line
- Pair program with a teammate
- Share your forwarded ports
- Store environment variables

Github Codespaces Lifecycle

The lifecycle of a codespace begins when you create a codespace and ends when you delete it. You can disconnect and reconnect to an active codespace without affecting its running processes. You may stop and restart a codespace without losing changes that you have made to your project.

- Creating a codespace
- Saving changes in a codespace
- Timeouts for GitHub Codespaces
- Rebuilding a codespace
- Stopping a codespace
- Deleting a codespace

Conclusion

GitHub Codespaces represents a cutting-edge solution for modern software development. With its cloud-based, customizable development environments, seamless GitHub integration, and collaborative features, it streamlines the development workflow.

Say goodbye to complex local environment setup and hello to the future of coding. Embrace GitHub Codespaces and unlock a new era of productivity and collaboration in software development.

Codespaces Demo!!

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Thank you!

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