

Tool Metadata Report (by MetadataFetcher)

1. General Information

Name	Visual Studio Code (VS Code)
Use Case	Developer Tools
Homepage	https://code.visualstudio.com/
Description	Visual Studio Code is a free, open-source code editor developed by Microsoft that has become the most popular development environment worldwide. According to the 2024 Stack Overflow Developer Survey, 73.6% of developers use VS Code, making it the dominant choice in the development community. The editor combines the simplicity of a code editor with powerful developer tooling through its extensible architecture and integrated development features.

2. Supported Languages/Technologies:

Primary Languages: JavaScript, TypeScript, Python, C#, Java, C++, Go, Rust, PHP
Web Technologies: HTML, CSS, React, Vue.js, Angular, Node.js
Data Science: Jupyter Notebooks, R, SQL, PowerShell
Mobile Development: Flutter, React Native, Xamarin
Cloud Platforms: Azure, AWS, Google Cloud Platform
DevOps Tools: Docker, Kubernetes, Terraform

3. Key Features:

IntelliSense code completion and syntax highlighting
Integrated terminal and debugger
Built-in Git version control support
Live Share for real-time collaboration
Extensive extension marketplace
Multi-cursor editing and powerful search/replace
Integrated development server and preview
Cross-platform compatibility (Windows, macOS, Linux)

4. System Requirements:

Operating Systems: Windows 10+, macOS 10.15+, Linux (64-bit)
RAM: 1.5GB minimum, 8GB+ recommended for large projects
Storage: 200MB for installation, additional space for extensions
Processor: 1.6GHz or faster processor
Display: 1024x768 minimum resolution

5. Installation & Setup:

VS Code can be downloaded from the official website with platform-specific installers. Installation options include user setup (recommended), system setup, and portable ZIP versions. The editor automatically updates monthly with new features and improvements.

6. Integration Capabilities:

Version Control: Git, GitHub, Azure DevOps integration
Cloud Services: Azure, AWS, Google Cloud extensions

Databases: MySQL, PostgreSQL, MongoDB, Redis connections

Containers: Docker and Kubernetes development

AI Tools: GitHub Copilot, IntelliCode, Tabnine

Testing Frameworks: Jest, Mocha, PyTest, NUnit

7. Version Control Support:

Built-in Git support with graphical interface for staging, committing, branching, and merging. Extensions provide integration with GitHub, GitLab, Bitbucket, and other version control systems. Features include inline diff views, conflict resolution, and repository management.

8. Extensions/Plugins:

The VS Code Marketplace offers over 45,000 extensions covering languages, themes, debuggers, and tools. Popular extensions include Prettier, ESLint, Python, Live Server, Docker, and language-specific tooling. Extensions can be installed, managed, and synchronized across devices.

9. Documentation & Tutorials:

Comprehensive documentation includes getting started guides, language-specific tutorials, and advanced topics. Microsoft provides official learning paths, video tutorials, and interactive courses. The community contributes extensive educational content through blogs, YouTube, and coding platforms.

10. Community & Support:

VS Code has a massive global developer community with active GitHub repository, Stack Overflow support, and community forums. Microsoft provides regular updates, bug fixes, and feature additions based on community feedback. The open-source nature enables community contributions to core functionality.

11. Licensing:

MIT License (Open Source) with Microsoft branding

12. Latest Version / Release Date:

Version 1.102+ (July 2025) with monthly release cycle

13. References:

Official Website: <https://code.visualstudio.com/>

Documentation: <https://code.visualstudio.com/docs>

GitHub Repository: <https://github.com/microsoft/vscode>

14. Other Links:

<https://code.visualstudio.com/download> - Official Download Page

<https://code.visualstudio.com/docs/getstarted/getting-started> - Getting Started Guide

<https://marketplace.visualstudio.com/> - Extension Marketplace

<https://code.visualstudio.com/docs/languages/overview> - Language Support

<https://code.visualstudio.com/api> - Extension Development API

<https://github.com/Microsoft/vscode-tips-and-tricks> - Tips and Tricks

<https://code.visualstudio.com/shortcuts/keyboard-shortcuts-windows.pdf> - Keyboard Shortcuts

<https://stackoverflow.com/questions/tagged/visual-studio-code> - Stack Overflow Q&A

<https://code.visualstudio.com/updates> - Monthly Release Notes

https://www.youtube.com/channel/UCs5Y5_7XK8HLDX0SLNwkd3w - Official YouTube Channel

<https://code.visualstudio.com/docs/editor/debugging> - Debugging Guide
<https://code.visualstudio.com/docs/remote/remote-overview> - Remote Development
<https://github.com/microsoft/vscode/wiki> - Community Wiki
<https://code.visualstudio.com/docs/editor/extension-marketplace> - Extension Guide
<https://code.visualstudio.com/docs/languages/json> - JSON Support
<https://code.visualstudio.com/blogs> - Official Blog
<https://code.visualstudio.com/docs/editor/integrated-terminal> - Terminal Guide
<https://code.visualstudio.com/docs/editor/github> - GitHub Integration
<https://code.visualstudio.com/docs/python/python-tutorial> - Python Tutorial
<https://code.visualstudio.com/docs/nodejs/nodejs-tutorial> - Node.js Tutorial