

VS Code & Developer Tools for Beginners

Boost Productivity and Code Efficiently

Website Name: haas.dev

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Introduction

Developer tools are essential for coding efficiently and professionally.

This guide focuses on **VS Code, essential extensions, and workflow tips** for beginners and CS students.

1. Why VS Code?

- Lightweight and fast
 - Highly customizable
 - Cross-platform (Windows, macOS, Linux)
 - Large extension ecosystem
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2. Installing VS Code

- Download from [VS Code official website](#)
 - Install necessary language packs (Python, JavaScript, Java, etc.)
 - Configure workspace and settings
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3. Essential Extensions

Productivity

- **Prettier** – Automatic code formatting
- **Bracket Pair Colorizer** – Easily match brackets
- **Path Intellisense** – Auto-complete file paths

Version Control

- **GitLens** – Visualize Git history
- **Git Graph** – View commit graph interactively

Languages & Frameworks

- **Python** – Linting, debugging, IntelliSense
- **ES7+ React/Redux/React-Native** – Snippets for React development
- **Flutter & Dart** – Flutter support in VS Code

Debugging & Testing

- **Debugger for Chrome** – Frontend debugging
 - **Jest** – Run unit tests in JS projects
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4. VS Code Tips

- Use **Command Palette (Ctrl+Shift+P)** for quick commands
 - Split editor for multi-file coding
 - Use **Live Share** for collaborative coding
 - Customize keyboard shortcuts for efficiency
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5. Workflow Enhancements

- Integrated terminal for commands
 - Auto-save and format on save
 - Snippets for repetitive code
 - Workspace settings for consistent project configuration
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6. Mini Project Ideas Using VS Code

1. **Portfolio Website** – HTML, CSS, JavaScript
 2. **React To-Do App** – Use VS Code extensions for React
 3. **Python CLI Tool** – Linting, debugging, and testing workflow
 4. **Flutter Mobile App** – Build and debug cross-platform apps
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7. Best Practices

- Keep VS Code updated

- Install only necessary extensions to avoid performance lag
 - Use version control for all projects
 - Regularly back up settings and workspace configurations
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Key Takeaways

- VS Code enhances coding efficiency and workflow
 - Extensions and shortcuts are critical for productivity
 - Integrate Git, debugging, and testing for professional development
 - Practicing mini-projects improves familiarity with tools and workflow
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