



Explore

[**Bash programming**, also known as **shell scripting**, involves writing scripts in the **Bash shell** to automate tasks, execute commands, and manipulate files within a Unix-like environment](https://www.gnu.org/software/bash/manual/bash.html) [1](https://www.gnu.org/software/bash/manual/bash.html)[2](https://www.gnu.org/software/bash/manual/html_node/What-is-Bash_003f.html)[3](https://www.cleverism.com/skills-and-tools/bash/).

Here are **five free resources** where you can learn Bash scripting:

1. [**Bash Scripting Tutorial Series for Beginners**](https://linuxhandbook.com/bash/): This comprehensive tutorial covers essential topics like variables, loops, conditionals, and functions. [It includes practical examples and exercises to reinforce your learning](https://www.gnu.org/software/bash/manual/bash.html) [4](https://linuxhandbook.com/bash/).
2. [**Introduction to Bash Scripting on GitHub**](https://github.com/bobbyiliev/introduction-to-bash-scripting): An open-source guide that helps you grasp the basics of Bash scripting. [It’s perfect for automating system administration, development, and daily tasks](https://www.gnu.org/software/bash/manual/bash.html) [5](https://github.com/bobbyiliev/introduction-to-bash-scripting).
3. [**Bash Scripting Tutorial by Ryan’s Tutorials**](https://ryanstutorials.net/bash-scripting-tutorial/): An eight-part beginner-friendly tutorial with clear explanations, examples, and challenges [6](https://ryanstutorials.net/bash-scripting-tutorial/).
4. [**Bash Scripting Tutorial on freeCodeCamp**](https://www.freecodecamp.org/news/bash-scripting-tutorial-linux-shell-script-and-command-line-for-beginners/): Learn about variables, inputs/outputs, debugging, and more. [Ideal for those starting out with Linux shell scripting](https://www.gnu.org/software/bash/manual/bash.html) [7](https://www.freecodecamp.org/news/bash-scripting-tutorial-linux-shell-script-and-command-line-for-beginners/).
5. [**GNU Bash Reference Manual**](https://www.gnu.org/software/bash/manual/bash.html): The official reference manual for Bash. It covers everything from basic syntax to advanced features. [While not a tutorial, it’s an excellent resource for in-depth understanding](https://www.gnu.org/software/bash/manual/bash.html) [1](https://www.gnu.org/software/bash/manual/bash.html).

Happy scripting! 🚀