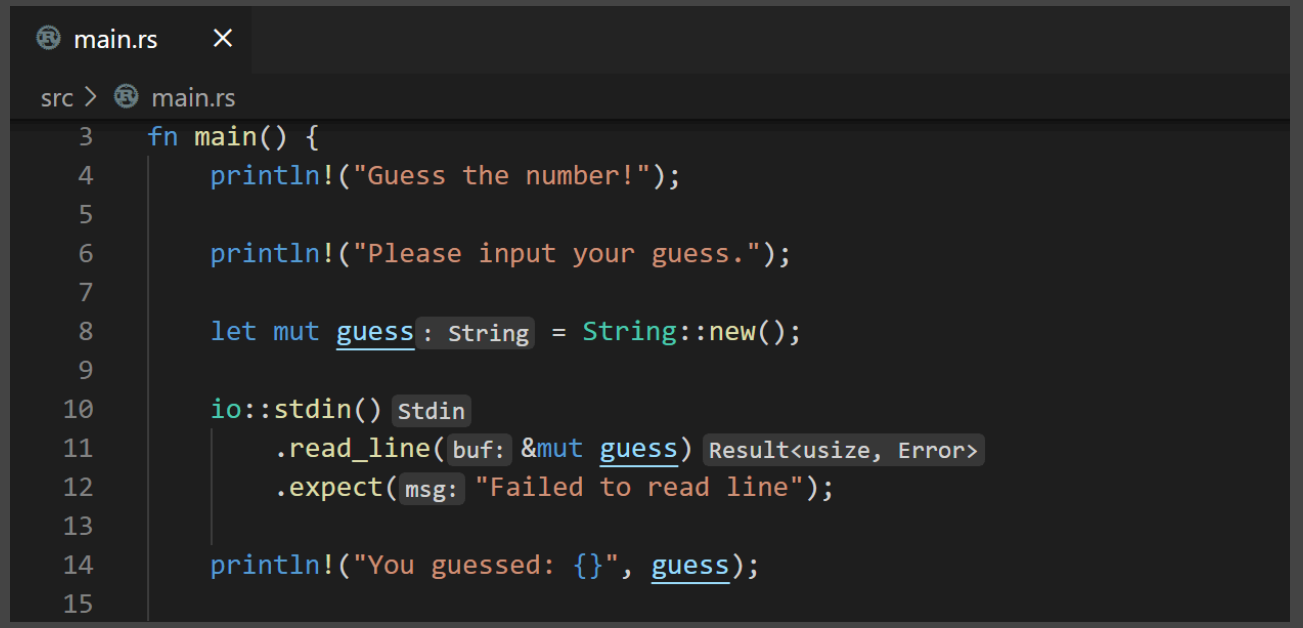
The Rust Compiler

Learn to Code with Rust

Source Code

- **Source code** is the code that developers write.
- **Source code** is meant to be readable by humans.
- The computer cannot understand the Rust code itself.



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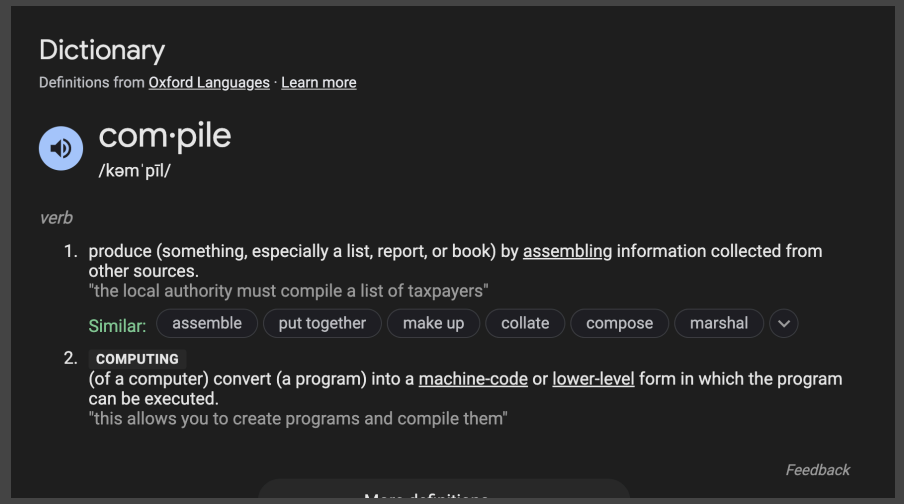

- The **Rust compiler** is a program that translates our source code into an executable program.
- The executable program is called a **binary** or **binary executable**.
- The computer can understand and execute the instructions in the binary.
- Think of the compiler like a translator.

Syntax

- **Syntax** describes the characters/symbols that developers use to write source code.
- Programming languages are strict. Rust is among the strictest of them all. Every detail matters to the compiler.
- Case sensitivity matters. A capital letter is not equal to a lowercase letter.
- Spaces matter. One space is not equal to two spaces or no spaces.
- Symbols matter. A semicolon is not equal to a comma.
- Line breaks matter.