

SHORT 1 · WHAT IS A COMPILER?

Computers only understand 0s and 1s

So how do they read our code?

A Translator Is Needed



We write code in human-friendly languages. A translator turns it into machine code — 0s and 1s.

How a Compiler Works



Source code

You write the program



Compiler

Translates the whole program first



Executable

A ready-to-run file (.exe)



Run

Runs fast, again and again



REMEMBER

Compiler = translate everything first

NEXT SHORT

What is an interpreter?

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SHORT 2 · INTERPRETERS

Compiler vs interpreter

Two ways to translate code

How an Interpreter Works



Source code

You write the program



Interpreter

Translates and runs line by line



Output

Results appear right away

Compare Them



Compiler

All at once, runs fast — C, C++, Go



Interpreter

Line by line, easy to test — Python



Both

Java and C# use a mix (bytecode)



REMEMBER

Both turn your code into action

NEXT SHORT

What are utilities?

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SHORT 3 · UTILITY SOFTWARE

Tools that keep your computer healthy

Meet utility software

Utility Software Is…



Small programs that maintain, protect, and speed up your computer.

Common Utilities



Antivirus



Backup



Disk cleanup



Zip / compress



Task manager



Updates

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Protect · Back up · Clean · Update

NEXT TOPIC

Topic 9: Programming languages

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