COMPUTER BASICS · TOPIC 8

Compilers, Interpreters & Utilities

Explained simply



LONG VIDEO

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COMPUTER BASICS · TOPIC 8

Compilers, Interpreters, and Utilities

IN THIS VIDEO

1. WHAT IS A COMPILER?
2. INTERPRETERS
3. UTILITY SOFTWARE

PART 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



STEP 1

Source code

You write the program

STEP 2

Compiler

Translates the whole program first

STEP 3

Executable

A ready-to-run file (.exe)

STEP 4

Run

Runs fast, again and again



REMEMBER

Compiler = translate everything first

NEXT PART

What is an interpreter?

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PART 2 · INTERPRETERS



Compiler vs interpreter

Two ways to translate code

How an Interpreter Works



STEP 1

Source code

You write the program

STEP 2

Interpreter

Translates and runs line by line

STEP 3

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 PART

What are utilities?

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PART 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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