

Introduction



WHAT IS CODING?

Coding, sometimes called computer programming, **is how we communicate with computers**. Code tells a computer what actions to take, and writing code is like creating a set of instructions. By learning to write code, you can tell computers what to do or how to behave in a much faster way. Using programming languages like **Java, Python, C++, and C#**, Programmers build games and websites. They can even tell robots what to do.

WHY LEARN COMPUTER PROGRAMMING?

Programming fosters creativity, reasoning, and problem solving. The programmer gets the opportunity to create something from nothing, use logic to turn programming constructs into a form that a computer can run, and, when things don't work quite as well as expected, use problem solving to figure out what has gone wrong.

Programming is a fun, sometimes challenging activity, and the skills learned from it can be useful both in school and at work.

