Welcome To Programming!

Up until now, we have built the structure of a web page (HTML) and designed it (CSS). However, websites are much more than that.

An important part of web development is making the web pages interactive.

That is the role of JavaScript (JS). So During this Super Skill, we are going to:

- Get to know how to program in detail
- Deep dive into JavaScript and learn its tools
- Learn about data types that exist in Javascript
- Learn how to use these data types to our advantage

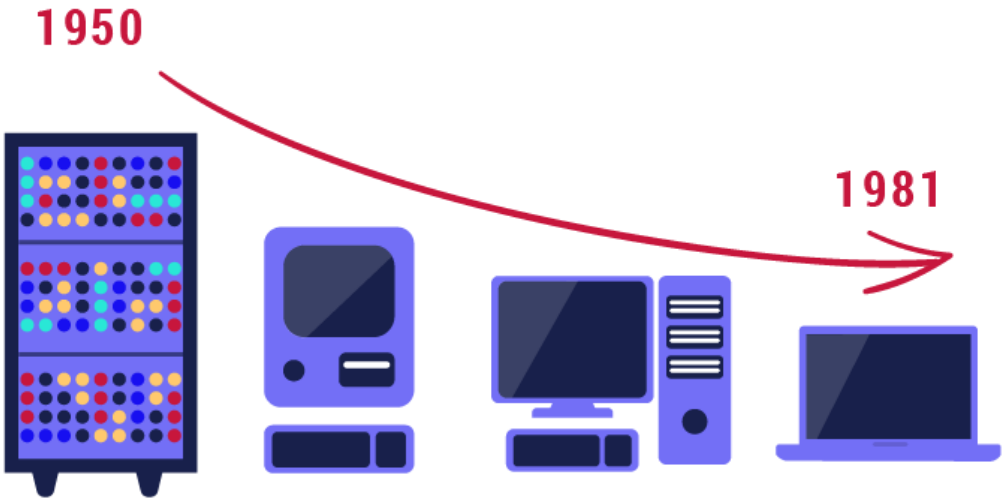
Welcome To Programming

Since their invention in the 1950s, computers have revolutionized our daily lives. With the click of a button we can calculate a route from a website or via GPS, book a train or an airplane ticket, or video call with friends on the other side of the world. This is all possible thanks to computers.

Let's take the term "computer" in its broadest sense. It is a machine that can perform arithmetic and logical operations. It can refer to either a desktop or a laptop computer (PC, Mac), a computing server, or a mobile device like a tablet or a smartphone.

Nonetheless, a computer can only perform a series of simple operations when it is instructed to do so.

They cannot learn, judge, or improvise (if you have watched Terminator, you might disagree with this). They simply do what they're told! Their value comes from how they can quickly compute and process huge amounts of information.



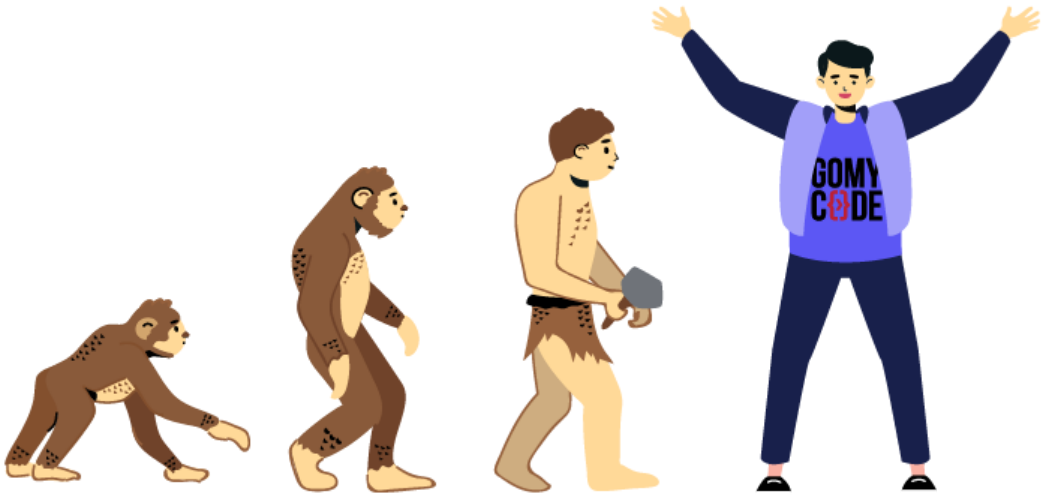
A computer often requires human intervention. That's where programmers and developers come in! They write programs that give instructions to a computer.

- A computer **program** (also called an application or software) is usually comprised of one or more text files containing commands in the form of code. This is why developers are also called coders.
- A **programming language** is a way to give orders to a computer. It's very similar to a human language! Each programming language has its own vocabulary (keywords that each play a specific role) and grammar (rules defining how to write programs in that language).

To keep things short and sweet:

- A **computer** is a machine whose role is to quickly and flawlessly execute a series of actions given to it.

- A **program** is a list of actions given to a computer. These actions take the form of textual commands. All these commands form the program's source code.
- The **programmer**'s task is to create programs. To accomplish this goal, she/he can use different programming languages.
- Before writing code, one must think ahead and dissect the problem in a series of elementary operations forming an algorithm.



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