

SKILL SUMMARY CODING



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What exactly is coding and how does it work?

What is a coding language and what are common coding structures?

How can I develop a website, an app or a game?

IMPORTANT CODING TERMS

CODING LANGUAGE

- All software is written in coding language.
- Every coding language is unique and is designed with a certain operating system, platform, coding style and specific use in mind.
- Popular languages are Java, JavaScript, C, C++, Python, Pearl and Visual Basic.

WEB DEVELOPMENT

- It is the development of world wide web apps using a client-server model.
- Apps typically use HTML, CSS and JavaScript in the client, PHP in the server, and http for communication between client and server.
- There are two main types of web development: front-end and back-end.

GAME DEVELOPMENT

- Game development starts with the idea of a story. Once the story is clear, the coding and programming begins.
- Many people are involved in the development of a video game. Designers, producers and graphic artists all contribute to the final product.
- Game programmers and software developers turn the idea into code, which tells the game how to operate.

APP DEVELOPMENT

- It is the creation of mobile apps for iOS and Android operating systems.
- Programming languages for iOS apps are Objective-C or Swift.
- Programming languages for Android development are primarily Java and kotlin (a newer language).
- To develop mobile apps, the software environment Android Studio needs to be used.

SOFTWARE DEVELOPMENT

- It is the creation of software and apps.
- Software developers need to write, debug and execute the source code of a software apps.

DID YOU KNOW

JAVASCRIPT is a coding language for websites, and a high-level, interpreted scripting language.

- It is widely used to add **functionality** and **interactivity** to web pages, so they become more user-friendly.
- It's the **most widely used** coding language in the world.

PYTHON is a high-level, interpreted coding language that runs on a range of different platforms.

- It is designed to emphasize **code readability**, with clear and expressive syntax (structure).
- It is mainly used to write **scientific and numerical software**.