

Java Basics and Git

What is Syntax?

Syntax is a set of rules that define how a program will be written and interpreted. It is the structure of a *programming language*.

```
System.out.println("Hello World");
```

This is the syntax for printing "Hello World" in Java.

Statically & Strongly Typed Language

A statically typed language is a language in which the type of a variable is set at compile time. This means that you must declare the type of a variable when you declare it.

```
int x = 5;
```

x is of type int, with the value of 5

Java is also strongly typed, meaning that you cannot change the type of a variable after it has been declared.

```
// first it is int
int x = 5;

x = "Hello World"; // this is not allowed

// this will crash
```

THIS IS VERY DIFFERENT FROM PYTHON

Primitive Data Types

A primitive data type is a basic data type that is built into the language. In Java, there are 8 primitive data types:

- byte
- short
- int
- long
- float
- double
- char
- boolean

There is more to this, which I will explain only if you understand me so far. Understand this first to understand reference types.

What is next?

Go into visual studio and we will try some git work.

```
git clone https://github.com/aSerbCoder/teachingdevic
```

What is Git?

Have you ever worked on a project with someone else? If you have, you know how difficult it can be to keep track of all the changes that are made. Git is a way to manage these changes and keep track of the history of a project.

It does not matter if you are working on a project by yourself or with a team, keeping track of changes is important.

Git is a Linux command line tool, but there are many GUI tools that make it more "user friendly"

VSCode has a built in git tool that we will use.

But to become an alpha programmer, you must use the skibidi command line or at least know how it works



Using Git

[HTTPS://ROGERDUDLER.GITHUB.IO/GIT-GUIDE/](https://rogerdudler.github.io/git-guide/)

This is a great page that basically shows you what you need to know about git.

Do people actually do things like this

Yes, I actually use git every time I code and commit 10+ times each time I code. It is a good practice to start now, and get used to it.

References

This is part of the series: [TEACHING DEVIC OOP](#)