

1. What is Git? Why is it useful? What is the git workflow?

Git is the most widely used version control system (VCS), which enables us to store code, track its changes, merge changes and revert to earlier version when needed.

Git is extremely useful as it allows us to easily work as a team while sharing code with teammates, improve productivity, and given the fact it's the most widely tool of its kind, it has a large numbers of developer with Git experience, and it's supported by many third party software tools and services.

Git workflow enable all members of a team to determine roles and responsibilities, set limits, and enhance different areas. It's very important to have a single Git workflow to ensure rapid delivery.

2. What are the 8 primitive data types in Java? What makes them each unique? What values can they hold?

The 8 primitive data types in Java are byte, short, int, long, float, double, char, boolean. These primitive data types are the building blocks used by most Java programs, so it's imperative to know how each one work and what value each can hold.

byte: similar to int, but it only takes up 8 bits of memory. It can take values from from -128 (-27) to 127 (27 – 1). “A character”

short: half the size of an int, and twice the size of byte, short has 16 bits of memory. It can take values from -32,768(-215) to 32,767(215 – 1).

Int: also known as integer, holds a wide range of non-fractional values. It contains 32 bits of memory, and it can be represented in values from -2,147,483,648 (-231) to 2,147,483,647 (231-1).

long: long contains 64 bits of memory, and it can be represented in values from -9,223,372,036,854,775,808 (-263) to 9,223,372,036,854,775,807 (263 – 1).

float: used for basic fractional numbers in Java, stores in 32 bits and its can be represented in values from $1.40239846 \times 10^{-45}$, and the largest value is $3.40282347 \times 10^{38}$.

double: double precision decimal point, it's stored in 64 bits of memory, and can be represented in values from $4.9406564584124654 \times 10^{-324}$ to $1.7976931348623157 \times 10^{308}$.

char: 16 bit intenger representing a Unicode-encoder character. Its range is from from 0 to 65,535. In Unicode, this represents ‘\u0000’ to ‘\uffff’.

boolean: it's the simplest data type, and contains only two values, true or false. It stores its value in one bit.

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3. What is your favorite thing you learned this week?

I enjoyed creating repository from the Command Prompt menu, as it's simpler and faster than using the graphic menu. I also enjoyed the many possibilities of working with Git, as it's a very team oriented tool.

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Works Consulted

<https://www.atlassian.com/git/tutorials/what-is-git>

<https://aws.amazon.com/devops/source-control/git/>

<https://www.baeldung.com/java-primitives>

<https://www.freecodecamp.org/news/what-is-git-learn-git-version-control/>

<https://git-scm.com/book/en/v2/Getting-Started-What-is-Git%3F>

<https://www.nobledesktop.com/learn/git/what-is-git>

https://www.w3schools.com/java/java_data_types.asp

<http://mathcenter.oxford.emory.edu/site/cs170/variables/>

<https://www.youtube.com/watch?v=xyZmG3g1VC8&t=1s>