

What is git? Why is it useful? What is the git workflow?

Git is a DevOps tool used for source code management and version control. It is used to track changes in the source code while multiple developers work together on the code development.

Git workflow has three stages – Working directory, Staging area, Git repository. A git workflow is the process of developing code and merging it with the work of other developers to the repository.

Source: [What is Git: Features, Command and Workflow in Git \[Updated\] \(simplilearn.com\)](#)

Source: [Typical Git workflow - RidgeRun Developer Connection](#)

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

Data Type	Min Value	Max Value	More Info
Byte	-128	127	useful for saving memory
Short	-32,768	32,767	useful for saving memory
Int	-2^{31}	2^{31}	supports arithmetic operations
Long	-2^{63}	2^{63}	useful when you need a range of values wider than int provides
Float	values beyond scope		useful for saving memory in a large array of floating point numbers, not for precise values
Double	values beyond scope		like float, not for precise values
Boolean	true/false		useful for simple flags that track true/false conditions
Char	0	65,535	alpha character

Source: [Primitive Data Types \(The Java™ Tutorials > Learning the Java Language > Language Basics\) \(oracle.com\)](#)