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Shawn Bataju

Week 1 Research

Git is a version control system that lets individuals and groups work efficiently in a project. It lets multiple people work on a project simultaneously. It tracks changes to a project and team members can create branches to fix bugs and introduce new features. Then, they can merge the changes back to the main program. Git workflow is a guide on how to use git effectively.

Team members agree on a specific way to use git and work on projects according to the agreed workflow.

The eight primitive data types in Java, including what values they can hold are as follows:

1. Int: Whole numbers
2. Double: Less precise numbers with decimal points
3. Float: More precise numbers with decimal points
4. Boolean: True or False
5. Char: Individual characters like a, A, \$, and space
6. Byte: Eight bits of data used when memory needs to be used sparingly
7. Long: Long range of integers
8. Short: Short range of integers

These data types are unique as each can hold a specific type of data and use different amounts of spaces in memory.

## References:

- <https://git-scm.com/>
- <https://docs.oracle.com/javase/tutorial/java/nutsandbolts/datatypes.html#:~:text=short%3A%20The%20short%20data%20type,the%20memory%20savings%20actually%20matters.>
- <https://www.atlassian.com/git/tutorials/comparing-workflows#:~:text=A%20Git%20workflow%20is%20a,in%20how%20users%20manage%20changes.>