

Tatum Lannaghan

Professor Cassens

Creative Coding 1

19 January, 2021

An operating system is the lifeline of any computer, without it there would be no functionality. The operating system acts as a bridge between the user and the hardware. It allocates and deallocates the memory from the device and also manages creation and deletion. It is vital for the computer to work, and offers Graphical User Interface or Command Line Interface for the user to use to do tasks. A GUI is more user friendly because it provides controls and widgets to correspond with the computer. A CLI has a faster speed but requires commands to do tasks.

A graphical user interface is the type of interface that allows interaction with electronic devices through visuals and graphical icons. These are usually more flexible and they are customizable however they require more memory due to the graphical components. They also more often than not, are slower but are easy for a beginner to deal with. An example of a graphical user interface would be the icons on your desktop and being able to drag and drop them with your mouse or trackpad. Overall, I like graphical user interfaces because that is what I am used to and what I've spent most of my time using. Command line interface is faster, and is an interface for the user to use commands in lines of text to perform tasks. The user needs to already have knowledge of commands and there's not much flexibility. Most of the codes or text lines follow a specific formula so they do not reach much creativity but don't require much memory because of it. Command line interface is also called command language interpreter, character user interface, or console user interface. Once someone discovers how to use the

command line interface, the structure is simple and an expert at CLI can perform tasks much faster than using a GUI. I am excited to learn more about CLI and become better adapted to it.

Overall, there are a lot of negatives and positives to both a graphical user interface and a command line interface. The challenge is knowing which one to use for a specific scenario to get the best results. If you want something fast, less memory usage, and to challenge your knowledge of commands then a command line interface is what you should choose. If you're looking for a more creative, beginner friendly, flexible type of interface than a graphical user interface would be used there.