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Unix & Command Line

Learning objectives

- What is the command line?
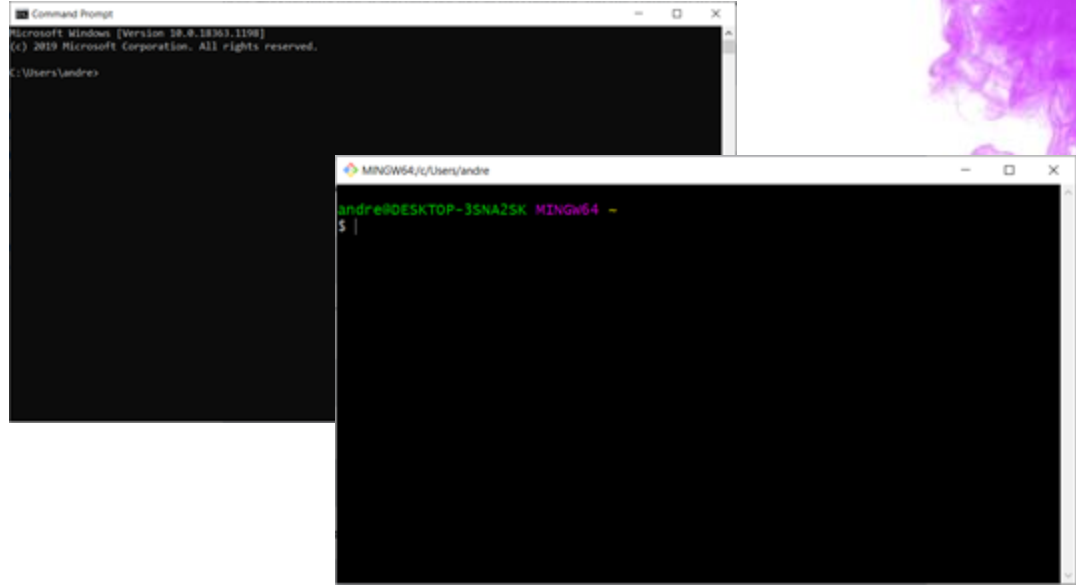- What can we use it for?
- How does this relate to development

BASH

"Unix is a family of multitasking, multiuser computer operating systems that derive from the original AT&T Unix, development starting in the 1970s at the Bell Labs research center by Ken Thompson, Dennis Ritchie, and others."

Command Line

- Alternative to the User Interface
- Exists in Windows & Unix OS
- Uses commands at prompts

Example Commands

ls	cd	mkdir <directory>	rm <file>
List files in the current directory	Change directory	Make Directory	Delete file

rm -r <directory>	clear	touch <file>	pwd
Remove folder	Clear the command line contents	Create file if doesn't exist	Display path of current directory

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Exercise

1. Create a new directory in your Home folder called 'nology'
2. Inside 'nology', create a directory called 'sandbox'
3. Inside 'sandbox', create a directory called 'kennels'
4. Create directories for 'dogs' and 'people' in the 'kennels'
5. Inside 'dogs', create three .txt files for three different dog breeds
6. Inside 'people', create two directories for two different people.

Make sure you're using the command line the whole time! No User Interface Allowed!

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Example Commands

mv <location1> <location2>

Move or rename a file or directory

cp <location1> <location2>

Copy a file

cp –r <location1> <location2>

Copy a directory

Exercise

1. Go back to the kennels example!
2. Change the dog .txt files to have names (e.g. Rolo, Sandy, Steve) instead of breeds.
3. Move the dog .txt files from the dogs directory into the people directories (they're getting adopted!). You may need to do this in multiple steps.

BONUS: In step 3, try and move each dog using a single one line mv command.

BONUS BONUS: Google and find out how to move all three dogs in one go using a single command!

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Command Line Tools

As we go throughout the course, we will use rely on the command line for making our lives easier!!

The first of these is **git**...

Additional resources

- www.davidbaumgold.com/tutorials/command-line
- [Unix - Wikipedia](https://en.wikipedia.org/wiki/Unix)