

COMMAND LINE INTERFACE

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CLI

Until now, you most likely use computers through a GUI. GUI stands for **G**raphic **U**ser **I**nterface, and it refers to the visual layer over the computer's actual core.

Starting today, we will be switching out  
the GUI for a faster version: the **CLI**!

## OPENING TERMINAL

- ▶ Mac Users:
  - ▶ Open the "Terminal" app  
(Applications > Utilities > Terminal)
- ▶ Windows Users:
  - ▶ Install and open Git Bash  
(<https://gitforwindows.org/>)

# COMMANDS

# ls

List

The `ls` command shows us what is in the current directory. Typing:

## ls

Will give us a list of all the files and folders wherever we are

# cd

Change Directory

The `cd` command is how we move between folders. Typing:

```
cd Desktop/
```

Will move us into the desktop folder

# pwd

Print Working Directory

The `pwd` command tells us where we are. Typing:

```
pwd
```

Will return something like:

```
/Users/jackie/Desktop
```



## RELATIVE VS ABSOLUTE PATHS

Relative paths are based off of where you currently are, while absolute paths are the exact address regardless of your current working directory.

For instance when I open my terminal I am in my user's directory and I can cd into my desktop using:

```
cd Desktop/
```

This is relative to where I currently am. But if I wanted to use an absolute path, I would need to specify exactly where it is:

```
cd Users/jackie/Desktop/
```

## NAVIGATING TIPS

- ▶ When you first open terminal you will always be in your root directory (`~/`)
- ▶ You can always navigate back to the root with `cd ~/`
- ▶ One directory above can be referred to with `../` for instance typing `cd ../` will move you up a directory
- ▶ You can refer to the current directory with `./`
- ▶ You don't need to type out the entire name of things! If you start and then press `tab` it will fill in the blanks for you!

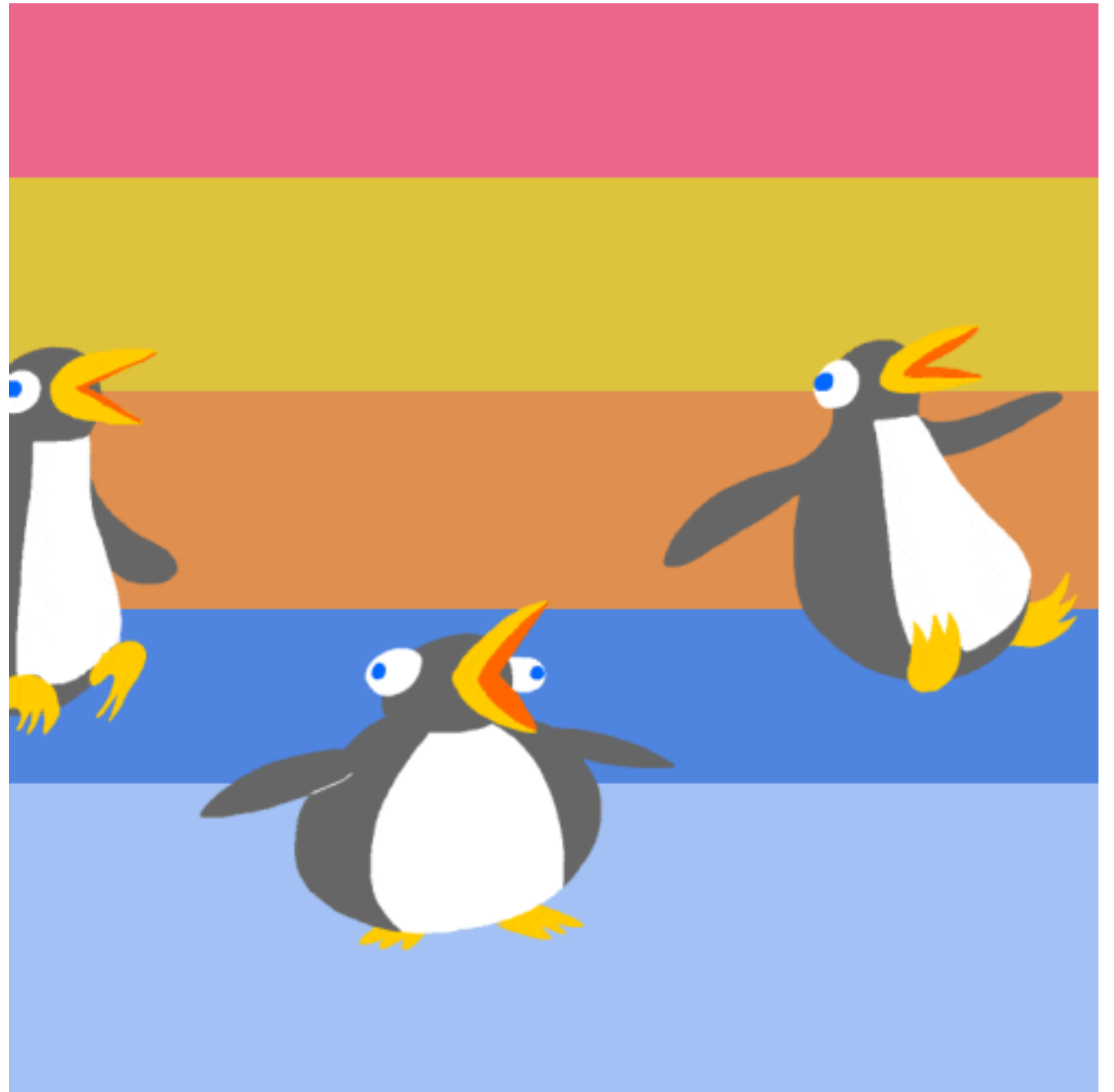
# CODEALONG

Lets try navigating around our computer

# REVIEW

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- ▶ `ls`
- ▶ `cd`
- ▶ `pwd`
- ▶ Relative path
- ▶ Absolute path
- ▶ `~/`
- ▶ `../`
- ▶ `./`



# mkdir

Make Directory

The `mkdir` command creates a new directory in the current location. Typing:

```
mkdir code
```

Will create a new folder named "code"

# touch

Create File

The `touch` command creates a new file in the given location. Typing:

```
touch index.js
```

Will create a new javascript file named "index"

# mv

## Move File or Directory

The `mv` command will move or rename a specified file or directory. Typing:

```
mv index.js code/index.js
```

Will move the file named `index.js` in the current directory to the `code` directory

# rm

Remove

The `rm` command removes a given file or directory. Typing:

```
rm index.js
```

Will delete the `index.js` file



# rm -rf

Remove (for directories that have stuff in them)

You can add options to the end of a command by using a -. For instance `rm -rf` adds two options:

r: says to remove the children

f: says to force the removal

# WARNING

Using `rm` will **PERMANENTLY**  
remove the file or directory. There  
is no going back!



## Wildcard

Using \* works as a wildcard. It will match anything that resembles what you have typed. Typing:

```
cd Desk*
```

Will open up your desktop

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Lets create the directories we will use in this class!

# REVIEW

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- ▶ `ls`
- ▶ `cd`
- ▶ `pwd`
- ▶ Relative Path
- ▶ Absolute Path
- ▶ `~/`
- ▶ `../`
- ▶ `./`
- ▶ `mkdir`
- ▶ `touch`
- ▶ `mv`
- ▶ `rm`
- ▶ `rm -rf`
- ▶ `code`
- ▶ `*`



# YOUR TURN

Practice using the CLI