Bash Basics

Become a terminal wizard

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What is Bash?

- Bash is a way to **talk to your computer using text**
- You type commands
- The computer does them, exactly and without mercy

No guessing. No magic.

The Terminal

- It's just a text box

- Commands run **line by line**

- If something breaks, it's usually your fault (good news: you can fix it)

First Command

```
echo "Hello world"
```

What happened?

- The computer printed text

- That's it

- You're officially dangerous now

Where Am I?

```
pwd
```

- Shows your current folder

```
ls
```

- Lists files in the folder

Making Things

```
mkdir test
cd test
```

- You made a folder

- You entered the folder

```
touch file.txt
ls
```

- You created a file

- You can see it

Removing Things (Carefully)

```
rm file.txt
cd ..
rmdir test
```

Rule: If you delete it here, it's **gone**. No recycle bin. No regrets.

Your First Script

Create a file:

```
nano hello.sh
```

Inside it:

```
echo "Hi, I am a script"
```

Run it:

```
bash hello.sh
```

Congratulations. That's scripting.

Variables

```
name="Alice"
echo "Hello $name"
```

- Variables store values

- $ means "use the value"

User Input

```
echo "What is your name?"
read name
echo "Hello $name"
```

The script listens. Then it responds. Bare minimum social skills.

Doing Things Multiple Times

```
for i in 1 2 3
do
  echo "Hello $i"
done
```

Computers love repetition. Humans outsource it.

Mini Project: Clean a Folder

```
mkdir images
mv *.png images/
```

What this does:

- Finds all `.png` files

- Moves them into `images/`

If nothing happens:

- The computer found nothing

- That's on you

Key Takeaways

- Bash scripts are just commands in a file

- If you can type it once, you can automate it

- The terminal is not scary, just honest

Next Steps

- Automate boring tasks

- Break things in a safe folder

- Google errors. Everyone does.

You now know more bash than you think.