LESSON 1

main.py

```
name = input("Name? ")
print(f"Hello, {name}!")
```

Py

Welcome to Python

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PYTHON SCRIPTING & OOP

LESSON 1

Welcome to Python

Why Python, installing it, the REPL, your first script and indentation

Why Python?



- Automation — scripts, files, servers
- Data & AI — pandas, NumPy, PyTorch
- Web — Django, Flask, FastAPI

01

Installing Python

terminal

```
$ python3 --version
Python 3.13.0
$ brew install python          # macOS
$ sudo apt install python3     # Ubuntu
PS> winget install Python.Python.3.13    # Windows
```

- Download Python 3 from python dot org on Windows and tick Add to PATH. On Mac use brew, and …
- Check with python3 dash dash version. Use a good editor such as VS Code with the Python …

02

The Interactive REPL

terminal

```
>>> 2 + 3 * 4
14
>>> name = "Mariam"
>>> name.upper()
'MARIAM'
>>> len(name)
6
>>> help(str.split)
```

- Type python3 alone to open the REPL, an interactive prompt with three greater-than signs. …
- Use it as a calculator, try a function, or explore with help and dir. Type exit to leave.

03

Your First Script

hello.py

```
name = input("What is your name? ")
year = 2026
print(f"Hello, {name}!")
print("Welcome to Python in", year)

# $ python3 hello.py
```

- Save code in a file ending in dot py and run it with python3 and the file name. print shows …
- Python runs your file from top to bottom, one line at a time.

04

Indentation Is Syntax

C, Java, JavaScript

```
if (x > 0) {
    print(x);
}
```

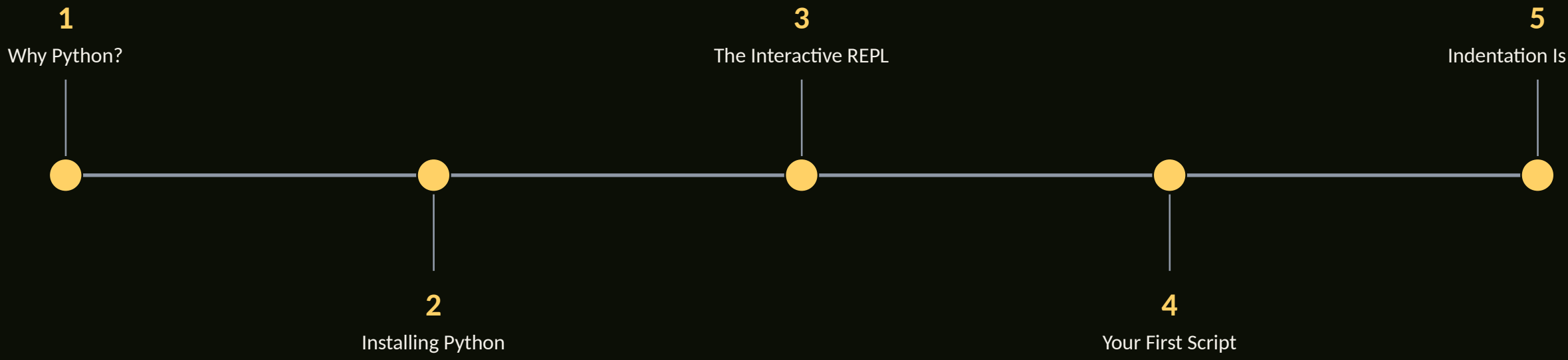
Python

```
if x > 0:
    print(x)
# no braces needed
```

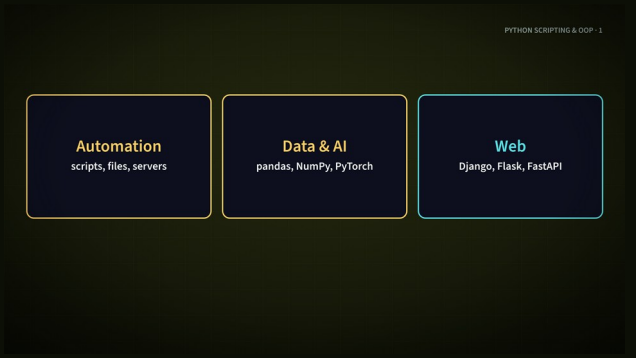
- Python uses indentation, not curly braces, to group code. Every line inside an if, a loop ...
- This forces clean, readable code. Mixing tabs and spaces causes errors, so let your editor ...

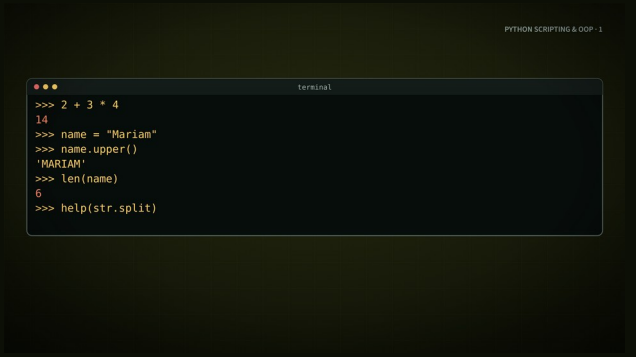
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Lesson Map


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Sources and Further Reading





Thank you for watching

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