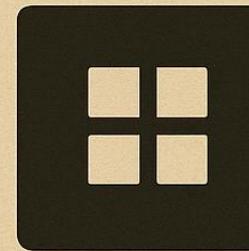
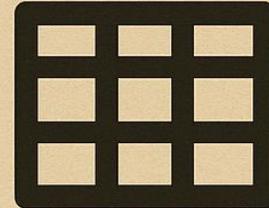


AUTOMATING TASKS using Python



Course Materials:

https://github.com/ValRCS/RTU_Automating_Tasks_With_Python

VIDEO 2 – Working with Text Files & String Processing



- Working with text files
- String methods
- Lists
- Loops
- Branching / logic

Quick Review from Video 1

Running
Python files

Using VS
Code &
Terminal

`print()`,
variables



What Are Text Files?

Plain text vs
formatted

UTF-8

Why
automation
starts with text

Reading a Text File

```
open("file",  
      "r")
```

```
with  
open(...) as f
```

```
read(),  
readlines()
```



Basic String Processing

- `.strip()`
- `.lower() / .upper()`
- `.replace()`
- `.find()`
- `.split()`



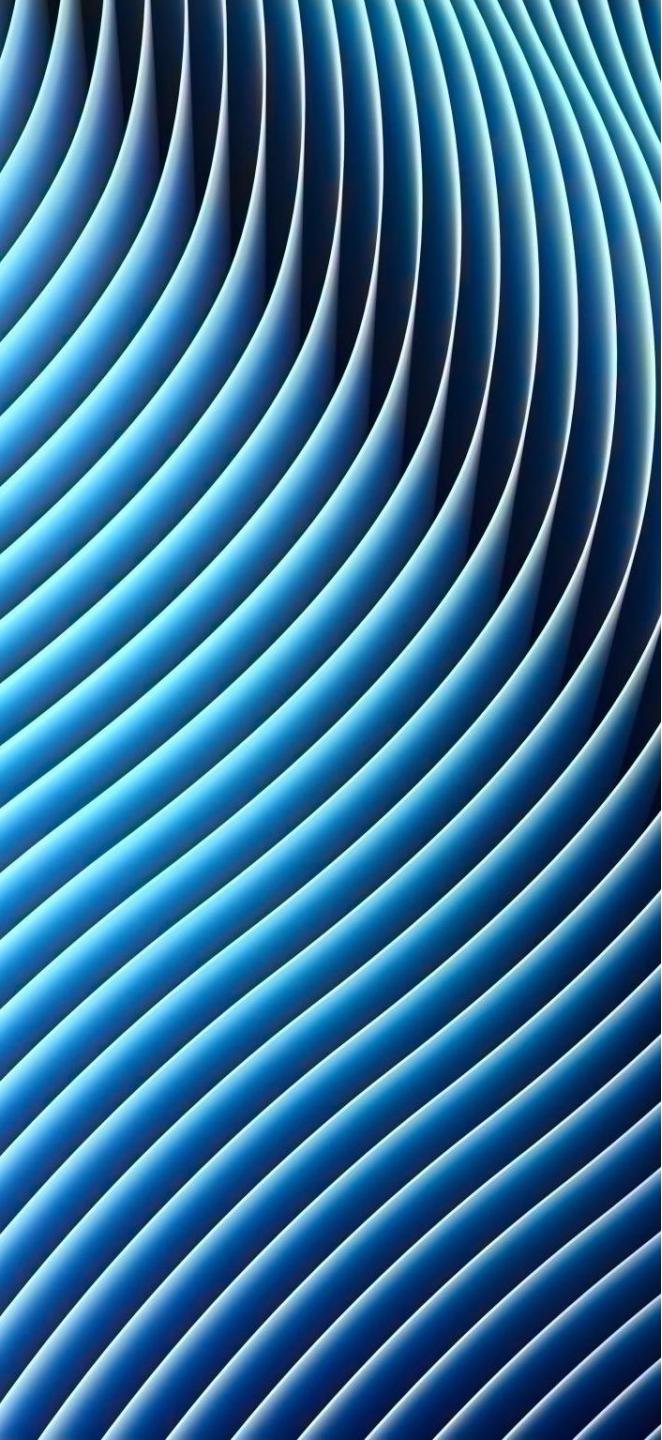
Lists

- Store many pieces of text
- Indexing
- Processing lines

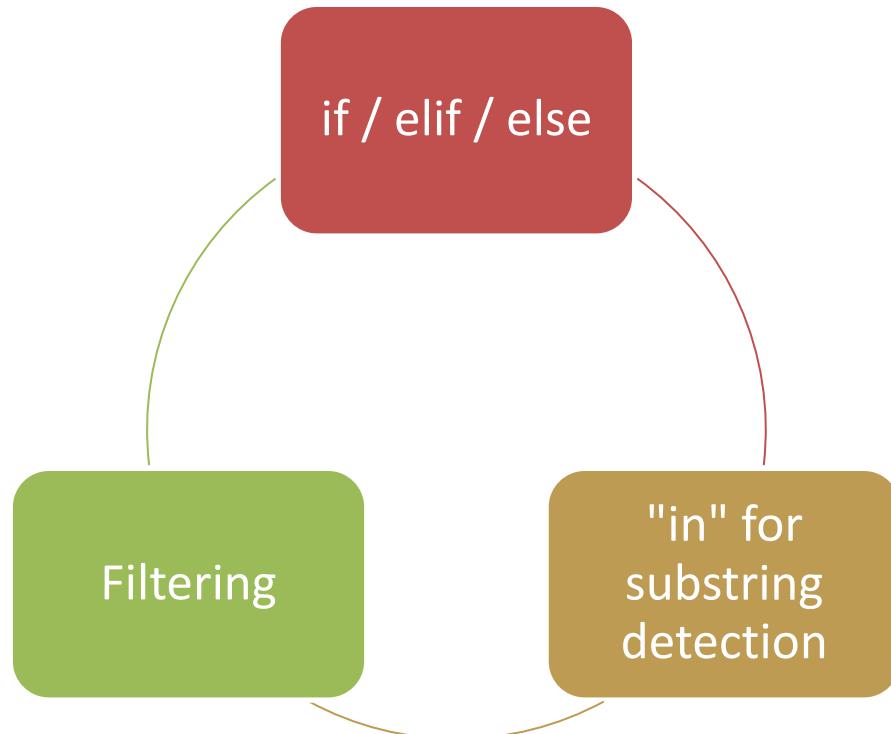
A vertical column on the left side of the slide features a complex, abstract 3D rendering of numerous thin, curved lines. These lines are rendered in a grayscale gradient, creating a sense of depth and motion as they curve and twist around each other.

Loops

- for loops
- Iterate lines
- Clean / count / filter



Branching / Logic



A vertical stack of several dark-colored, ribbed metal pipes, likely steel, arranged in a slightly curved pattern.

Mini Automation Script

Read → clean →
filter → write

Realistic small
example



Writing to a File

- w = overwrite
- a = append
- Write lines with \n

Common Mistakes

- Missing encoding
- Forgetting strip()
- Using read() incorrectly



Exercise

Load file

Clean lines

Filter

Save

Summary

Files

Strings

Lists

Loops

Logic