

CSV file

Week 7

What is CSV

- A CSV (Comma-Separated Values) file is a text file used to store **tabular** data, such as a spreadsheet or database.
- CSV can be opened and edited with any text editor.
- Each piece of data is **separated** by a **comma**.
For example: `name, age, city`.
- Each line in the file represents a row, and each comma-separated value represents a column.
- The first row often contains **headers**, which describe the data in each column. The header row can be also *missing*.
- CSV files are widely supported by many applications, including spreadsheet programs like Microsoft Excel and Google Sheets.

people.csv

name,age,city

Alice,30,New York

Bob,25,Los Angeles

Charlie,35,Chicago

David,28,Houston

Eva,22,San Francisco

Frank,40,Miami

Grace,27,Boston

CSV in Excel

- If you open the file in Excel, it looks like this:

	A	B	C	D
1	name	age	city	
2	Alice	30	New York	
3	Bob	25	Los Angeles	
4	Charlie	35	Chicago	
5	David	28	Houston	
6	Eva	22	San Francisco	
7	Frank	40	Miami	
8	Grace	27	Boston	
9				
10				

split() method

- The `split()` method is the most common way to split a string into a list in Python.
- This method splits a string into substrings based on a **delimiter** and returns a **list** of these substrings.

```
File Edit Format Run Options Window Help
text = "apple,banana,orange,grape"
fruits = text.split(",")
print(fruits)
```

- Output: `['apple', 'banana', 'orange', 'grape']`

Examples

- How to read a CSV file using Python: `read_csv.py`
- How to append a new row to CSV: `append_csv.py`
- How to remove a row: `delete_from_csv.py`