

Statistical Programming with Python

Pepe García

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Files

Plan for this session

- Learn about handling files

Reading files

```
file = open("file_path")  
  
for line in file:  
    #do something with line  
    pass
```

Reading files

- create a text file
- read all its lines

Interlude: with

Every time we use files we need to **close()** the file after use. Not closing the file would end up in an unexpected program crash.

```
fh = open("file.txt")  
# do whatever with the file here  
fh.close()
```

Interlude: with

In order to avoid this, Python provides the **with** keyword. Whatever we pass to **with** will be closed after the body.

```
with open("file.txt") as fh:  
    pass # do whatever with the file
```

Interlude: with

Rewriting our previous example to use **with**

Writing files

We can write to files using a similar approach

```
with open("file.txt", "w") as f:  
    f.write("this content will be written to the file!")
```

Writing files. modes

When opening a file, we can choose in which **mode** we open it

Exercises

1. Create a function named `from_csv` **for** converting from CSV to a lists of 1.
2. Create a function named `to_csv` **for** converting a list of lists to CSV.