

# Intro to Python (Class 5)

Ben Bettisworth

- 1 Files
- 2 Imports
- 3 Structuring a Project

## Section 1

Files

# Files

At the beginning of the course, we defined a file as:

## Definition

*Files are chunks of memory stored in a file system*

# Practical Files

But practically, files are almost always *serialized*. This that files have a *file format*, which governs their layout.

example.json

```
{  
  "foo": 3.14,  
  "bar": "hello world"  
}
```

File formats are a compromise between how the computer sees data, and how humans read data. This means that often the file format naturally fits into a `list` or `dict`.

# File systems

There are (seemingly) a billion different file systems out there. But, they all identify files with a *path*.

## Definition

*A path is a **ordered** series of directories and a final filename which identifies a file*

## Example

Windows: `C:\Users\Docs\Final.docx`

Unix: `/home/user/Final.docx`

## Section 2

### Imports

## Section 3

# Structuring a Project