

JSON

Data Manipulation in Python

Data Exchange Formats

- ▶ XML
 - ▶ A verbose textual representation of trees
- ▶ JSON
 - ▶ JavaScript Object notation – like a Python dict

JSON Format

Just like Python data structures but you have to use double quotes for strings. Here's the XML people example represented as JSON:

```
{
  "people": {
    "person": [
      {
        "firstName": "Alan",
        "lastName": "Turing",
        "professions": {
          "profession": ["Computer Scientist", "Mathematician",
            "Computer Scientist", "Cryptographer"]
        }
      },
      {
        "firstName": "Stephen",
        "lastName": "Hawking",
        "professions": {
          "profession": ["Physicist", "Comedian"]
        }
      }
    ]
  }
}
```

Processing JSON

Use Python's built-in **JSON encoder and decoder**

- ▶ Loading from a string:
- ▶ Loading from a file:
- ▶ Dumping to a string
- ▶ Dumping to a file: