# YAML

→ Previously known as yet another markup language.

→ But now it's called YAML ain't markup language.

→ YAML is a data format used to exchange data

→ Similar XML & JSON.

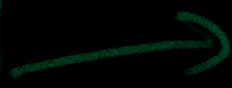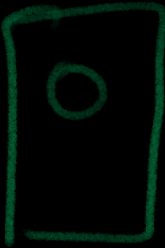→ In YAML, we can store only data, not commands.

Data Serialisation: It Basically a process of converting data objects into a complex data structure into a stream of Byte to make it easily transmittable.

DS Languages ex: YAML, JSON, XML

Android App        web                    ML
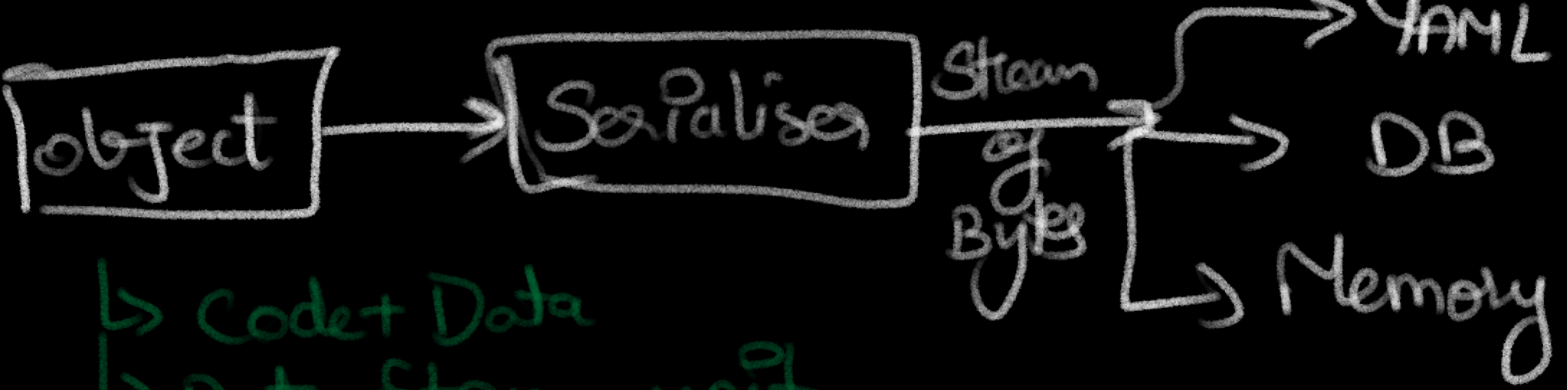
object → Stream → |

Stream → Store
                  In
         ↓        DB

means
Chunks
of
data
                  Stream → object

This process is known
as Serialisation

→ Reverse from DB to
object is Known as
Deserialization.

```
┌─────────┐        ┌──────────────┐   Stream              ╭──→ YAML
│ object  │───────→│  Serialiser  │   of    ─────────────┤
└─────────┘        └──────────────┘   Bytes               ├──→ DB
                                                           │
                                                           ╰──→ Memory
```

↳ Code + Data
↳ Data Storage unit.

⇒ In YAML you can also store the objects data that is why it's known as YAML ain't markup language.

→ YAML is used in config files like in Docker, Kubernetes etc.

→ Also used in logs, Caches etc.

Benefits of YAML

→ Simple & easy to read

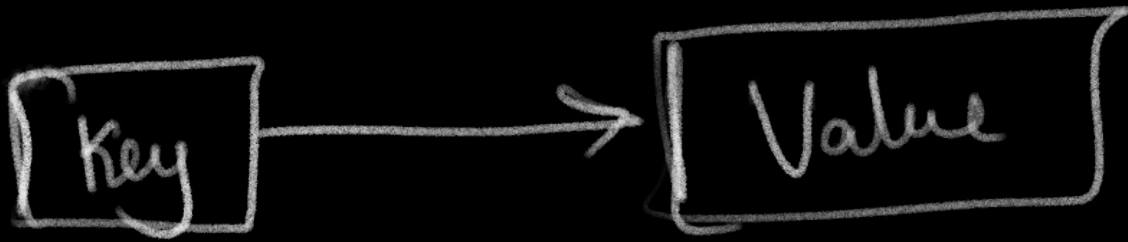→ It has a strict Syntax - Indentation is Important

→ Easily Convertable to JSON, XML

→ Most languages use YAML

→ More Powerful when representing Complex data

→ Parsers etc, various tools available
→ parsing is easy.

# Key Value Pairs

```
[ Key ] ──────────────▶ [ Value ]
```

You can YAML & convert a hashmap
out of it, similarly json object.

```
[ Cities ] ──────────▶ ┌──────────┐
                       │ New York │
                       ├──────────┤
                       │ Boston   │
                       ├──────────┤
                       │ Chicago  │
                       └──────────┘
```

# Representation of dictionaries

In advance Data types - yml file



People

Akash

Venkat

name
age
Uni

name
age
Uni

School
→ name
→ principal
→ Student

Student
→ Roll no
→ name
→ marks

→ Representing this in files using serialization

→ Check school. yaml, JSON, xml