# **YAML**

# YAML:

It was first called Yet Another MarkUp Langugae but now it is Yaml Ain't MarkUp Language.

# **Definition:**

Applications written with different technologies or languages which have different *Data Structures* can transfer data to each other using a *Common/ Standerd Format*. YAML, JSON and XML are these formats

It is a Data Serialization Language

• Data Serialization: Translation of Object (Code + Data) into stream of bytes that saves the state of this object in a form that is transmittable. Using Serialization, data can be converted into code and code can be converted into data again.

# Benifits of YAML:

- Simple and easy to read
- Nice and Strict Syntax
- Most Languages use it
- More powerful when representing complex data

Note: Any JSON input can be converted to YAML output and vice virse

# **SYNTAX**

# **Data Type**

Yaml Automatically Determines the data type if not specified

name: Hammad age: 20 graduate: no

But you can specify a dataType

```
Syntax --> variable: !!datatype value
age: !!int 20
Some Common are
zero: !!int 0
positiveNum: !!int 45
negativeNum: !!int -27
commaValue: !!int 245_000 #245,000
Other Types
PI: !!float 3.14
infinite: !!infinite .inf
not a num: !!nan .nan
booleanValue: !!boolean no
nameString: !!str Hammad
nullDataType: !!null null #null or NULL or ~
Lists
 Item1
- Item2
- Item3
Nested Lists
- Item1
 - Item2
 - Item3
 - Item1
 - Item2
 - Item3
Block Type / Object
ObjectTypeKeyValue:
 KeyValue: Pair
  KeyValue2: Pair2
Or
```

ObjectTypeSimpleList: -Item1

-Item2 -Item3

# You want to display multiple line in your browser but you want your browser to treat it as a single line #Use ">"

```
aboutInSingleLine: >-
   I am a CS student
   Currently Learning DevOps
   and Android Dev
```

#### Same as

about2: I am a CS student Currently Learning DevOps and Android Dev

# Remember Indentation (one space) is very important here

```
aboutTwoMultipleLine: |-
   I am a CS student
   Currently Learning DevOps
   and Android Dev
```

# Single Key but have two Values

```
pairExample:
- job: Student
- job: Teacher
```

#### Set

SetExample: ?Hammad: Student ?Danish: Graduate ?Zubair: Freelancer

#### **Dictionary**

-Age: 78

```
People:
-Hammad:
- Role: Student
- Age: 20
-Kunal:
-Role: Teacher
```

# **Reusing Properties**

Likes: &likes - Fruites: Mango - Food: Biryani

Person1:

-Name: Hammad <<: \*likes