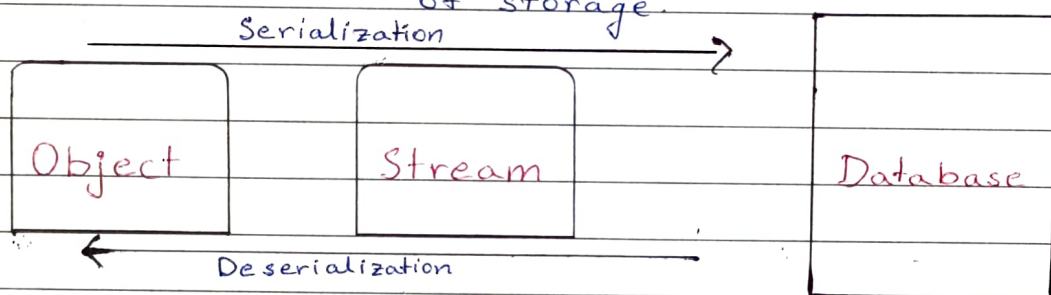


YAML

⊛ Definition - (YAML ain't markup language)

- data format used to exchange data
- can only store data and no commands
- similar to XML and JSON

⊛ Data Serialization - It is a process of converting the data objects into a complex data-structure, into a stream of storage.



- Used in logs, caches and configuration files like Docker / Kubernetes, etc.

⊛ Benefits -

- Simple and easy to read
- It has a strict syntax. (Indentation)
- Easily convertible to JSON and XML
- Most languages use YAML.
- More powerful when representing complex data.
- Various tools available.
- Parsing is easy

* YAML Demo :

Key → Value

Key Value
Pair

"apple" : "I am a red fruit"

1 : "This is Ronit's roll number"

list

lists

- apple
- mango
- banana
- Apple

used for Comments

It is Case-Sensitive

block

cities :

- new delhi
- mumbai
- kolkata

Spaces are Important

flow

cities : [new delhi, mumbai]

- We can use String, integer, float, boolean data-types.
- Datatypes are automatically detected.

Datatypes ↴

int

Zero : !!int 0

positiveNum : !!int 45

negativeNum : !!int -45

binaryNum : !!int 0b11001

octalNum : !!int 06574

hexaNum : !!int 0x45

commaValue : !!int +540-000

float

marks: !!float 56.91

infinite: !!float .inf

not a number: .nan

boolean

boolean Value : !!bool No, n, N, false, False, FALSE
!!bool Yes, y, Y, true, True, TRUE

String

message: !!str This is a string

Null

text: !!null Null, null, NULL, ~

time stamp

india time: !!timestamp 2003-03-30T02:59:43.10 +5:30
(by default it is UTC time zone)

exponents

exponential numbers: 6.023E23

Advanced

Data-types

Sequence

student: !!seq

- marks

- name

- roll no.

(or)

cities: [new delhi, mumbai]

sparse - sequence (some keys of seq. will be empty)

Sparse seq:

- hi

- how

#nested sequence

-

- Mango
- apple
- grapes

-

- yellow
- red
- green

maps

!! map (key: value pairs are called maps)

#nested mappings (map within a map)

name: Ronit Banerjee

role:

age: 78

job: student

(or)

role: { age: 78, job: student }

pairs

pair example: !! pairs

- job: student

- job: teacher

(or)

pair example: !! pairs [job: student, job: teacher]

set

names: !! set

? Ronit

? Koustav

? Subhro

? Raja

dictionary

!! omap

people: !! omap

- Ronit:

name: Ronit Banerjee

age: 78

height: 678

- Koustav:

name: Koustav Chatterjee

age: 49

height: 591

Re-Using
Some
Properties
(Anchors)

likings: &likes

fav food: mango

dislikes: grapes

person1:

name: Ronit

<<: *likes

(copies the likings)

person2:

name: Shreyan

<<: *likes

dislikes: berries (overrides)

(*) Storing data in "XML" - (not human readable)

(*) Storing data in "JSON" -

(*) Few tools for DevOps -

- Datree
- Monokle
- Lens