

# DS - CSV

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## Simple serialized Storage data structure

- Stored data with header
- Each column separated by delimiter
- Data can fit in single system memory

### Environment

- Single System

Numbers

Text

Boolean & DT

Null



Inputs

Collection of  
Programs

Outputs



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# DS - XML

## *eXtensible Markup Language*

- Text Based format
- To Store and transport
- Hierarchical structure with custom tag

### Environment

- Single System

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➤ Text & Numbers

➤ Boolean & Dt

➤ Nested Structure

➤ Null

XSD & DDD

Raw Data Input

Raw Data Output

**XML  
Parser  
Algorithm**

Stored in  
Memory /  
Single File  
with Tag &  
Attributes

Inputs

Collection of  
Programs

Outputs



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# DS - XML



↗ Exchange the data

↗ Tag  $\approx$  Struct Type element

↗ Attribute  $\approx$  Element of Struct

↗ Content : Main Value

↗ Lib (Python)

↗ lxml

↗ xmltodict

# DS - JSON

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## JavaScript Object Notation

- Text Based format
- Data Interchange format
- Collection of Key value pair & Array

### Environment

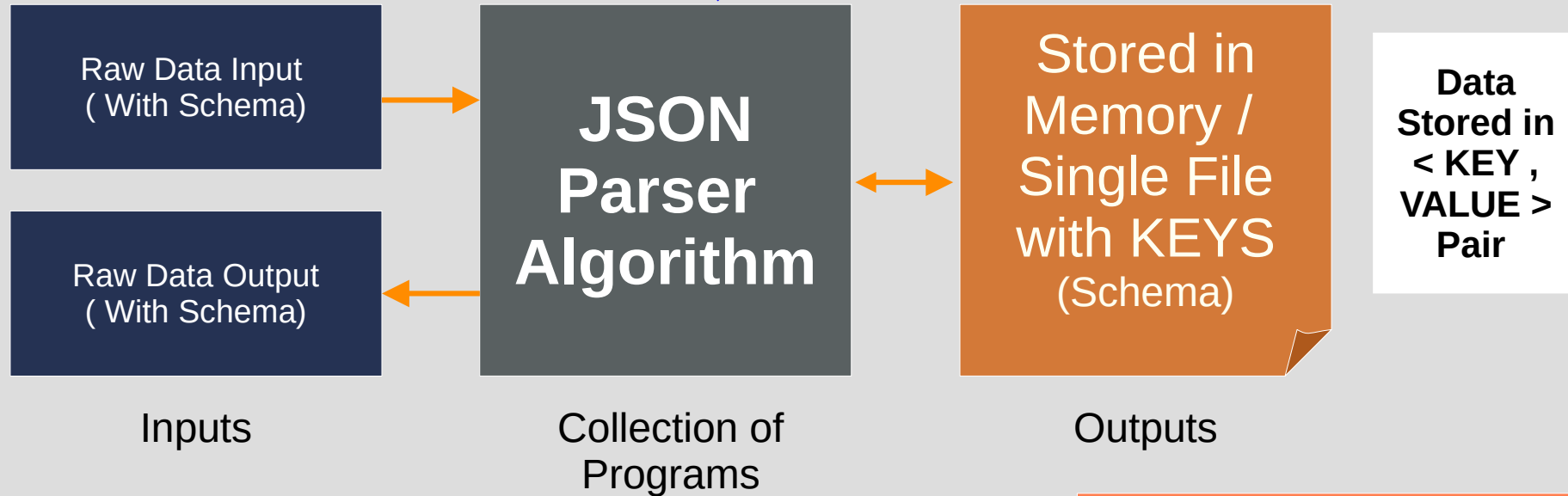
- Single System

➤ Text & Numbers

➤ Boolean & Dt

➤ Nested Structure

➤ Array & Object



# DS - JSON

## ↗ Interchange Data

## ↗ Web Development & API

## ↗ Data Storage & Exchange

## ↗ Activity ( Logs, Event)



- ↗ LM :
- ↗ No Schema enforcement
- ↗ Performance
- ↗ Storage in efficiency

- ↗ USE :
- ↗ Small & Medium Data
- ↗ Interoperability
- ↗ Readability & API

# DS - JSON



↗ Coding ...



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# DS - YAML

## YAML Ain't Markup Language

- Text Based Serialization format
- Configuration format
- Allow structured data in plain format

### Environment

- Single System

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✓ Key Value pair

✓ List & Dictionary

✓ Simple Types

✓ Array & Object

Raw Data Input  
( With Schema)

Raw Data Output  
( With Schema)

YAML  
Parser  
Algorithm

Stored in  
Memory /  
Single File

Indentati  
on Based

Multi line  
support

#  
Comments  
support

Inputs

Collection of  
Programs

Outputs

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# DS - YAML

## ↗ Declarative

↗ 5 & 6 generation languages

↗ Just declare the functionality

↗ Define configurations



↗ LM :  
↗ Whitespace Sensitivity  
↗ Scalability  
↗ Type safety



# DS - YAML



↗ Coding ...



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