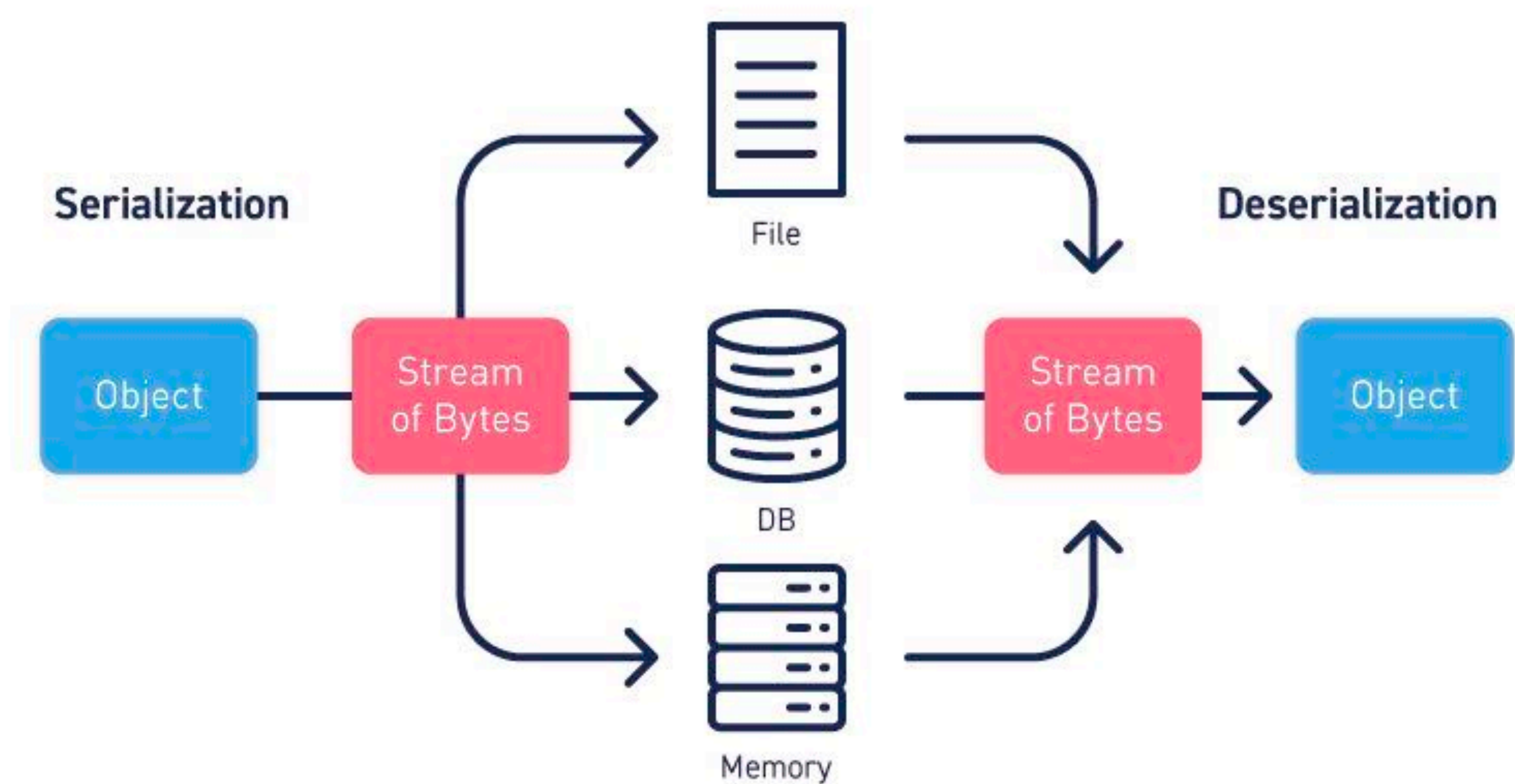


DRF Serializers & Validation

Django Development II

Seralization Nima?

Qanday Muammoni Yechadi?



Serialization Options

XML

```
<Servers>
  <Server>
    <name>Server1</name>
    <owner>Fouzi</owner>
    <created>28092019</
created>
    <status>active</status>
  </Server>
</Servers>
```

JSON

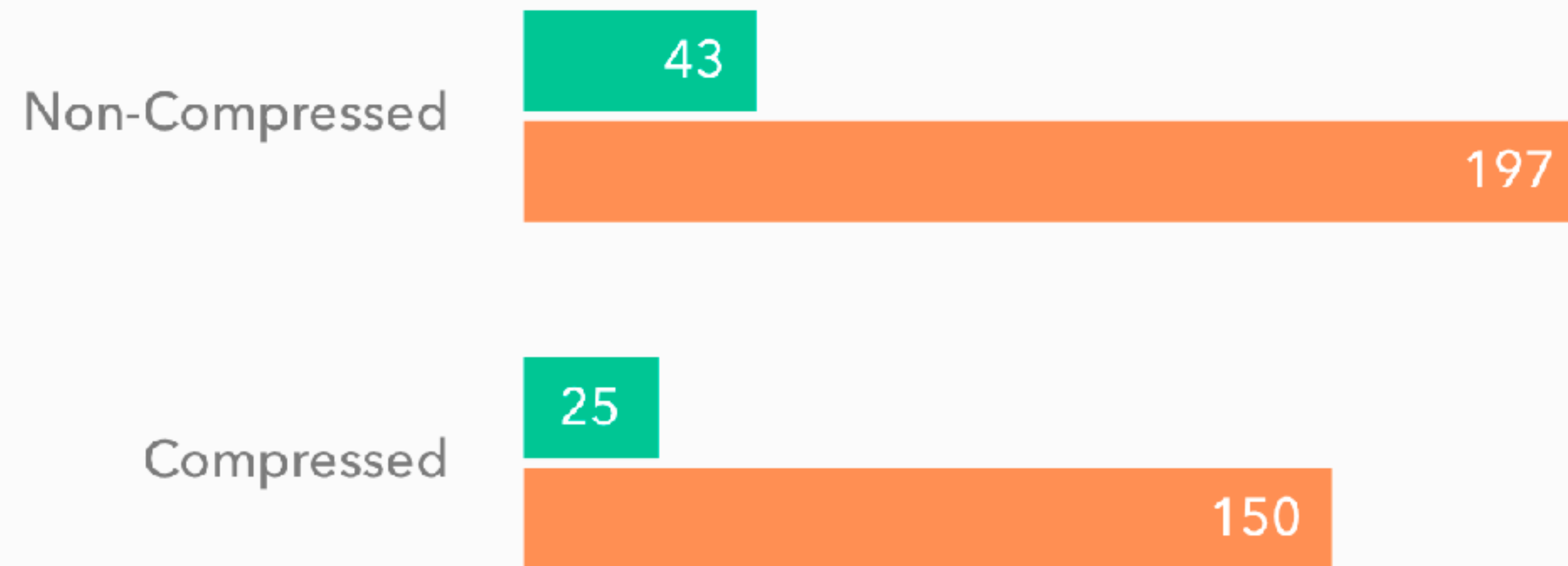
```
{
  Servers: [
    {
      name : Server1,
      owner : Fouzi,
      created : 28092019,
      status : active,
    }
  ]
}
```

YAML

```
Servers :
  - name : Server1
    owner : Fouzi
    created : 28092019
    status : active
```

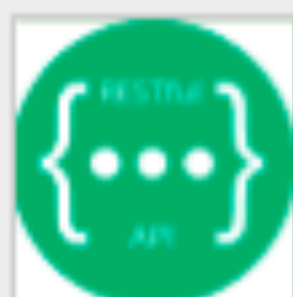
JSON vs Protobuf

Java to Java Communication



References

- Protobuf Time (ms)
- JSON Time (ms)



REST

- **Well known** Architecture and **Popular**
- **Synchronous** communications through HTTP only
- Design **based on HTTP** (Status, Methods & URI)
- Multiple Specs Standards available (**OpenAPI**, RAML, etc)
- Payload default in **JSON**



GraphQL

- Architecture is **gaining in Popularity**
- Synch/Asynch communication in **multiple protocols** such as HTTP, AMQP, MQTT.
- Design based on **message exchange**
- **Schema Definition** as the Specs Standard (IDL)
- Payload default in **JSON**



gRPC

- **Little known** Architecture
- **Asynch** communication in HTTP/2 Protocol.
- Design based on **messages.**
- **Protobuf** as a Specs standard (IDL)
- **Serialized** Payload default (protobuf)

Let's Code

