**Data on the web**

With the HTTP request/Response well understood and well supported, there was a natural move toward exchanging data between programs using these protocols.

We needed to come up with an agreed way to represent data going between applications and across networks. There are two commonly used formats: XML and JSON

Eg. Python programs send data over wire, Java may not understand it other side as it’s not running dictionary and lists. So, we need to use **Serialization** and **Deserialization.**

Set of applications that work in different languages. XML and JSON – Java script object notation used for

Serialization and deserialization.

**Rest Architecture:**

<http://rest.elkstein.org/>

Rest with Python: <http://rest.elkstein.org/2008/02/using-rest-in-python.html>

1. Rest Tutorial video:

<http://www.restapitutorial.com/lessons/whatisrest.html>

1. Rest: <http://www.service-architecture.com/articles/web-services/representational_state_transfer_rest.html>
2. JSON: <http://www.service-architecture.com/articles/web-services/javascript_object_notation_json.html>
3. SOAP: <http://www.service-architecture.com/articles/web-services/soap.html>