1. In the last section, we saw how to write our own custom serializer and deserializer using Jackson (other library can also be used).
2. **Agenda**:
   1. **Apache Avro**
3. Apache Avro:
   1. Cool framework which helps us to get rid of writing custom serializer and deserializer.
   2. Open-Source Framework maintained by Apache.
   3. It uses Language Neutral syntax.
4. We will create a schema file which will represent our language object.
5. On the Producer side, we will use **KafkaAvroSerializer** which just looking at the schema file for our language object, will convert the object into **byte array**.  
   Then that byte array will be handed over to the Broker.
6. On the Consumer Side, we will use **KafkaAvroDeserializer** which just looking at the schema file, will convert the received **byte array** into language object.
7. How Producer and consumer exchange this schema file.
8. We do this exchange through a **Schema Registry**.
9. On the producer side we configure **Schema Registry URL** (which we will see in the next few lectures) and **KafkaAvroSerializer** is intelligent enough to push those schema files to this registry.
10. On the consumer side, we will give **Schema Registry URL** as part ofconsumer configuration and the **KafkaAvroDeserializer** pulls that schema and does the deserialization.  
    A diagram of a language

    Description automatically generated
11. A screenshot of a computer

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12. A screenshot of a computer

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