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## MAIN POINTS

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### Lesson 5 – Apache Avro

*Enjoy greater efficiency and accomplish more*

### WHOLENESS OF THE LESSON

Apache Avro is Hadoop's preferred cross language data serialization system which serializes data in a format that has schema built-in. The serialized data is in a compact binary format that doesn't require proxy objects or code generation. **Science & Technology of Consciousness:** Growth occurs through the process of transcending — transcending to deeper levels and then coming out.

### MAIN POINTS

1. Avro schemas (.avsc files) are usually written in JSON and data is encoded using a binary format. Avro allows every data to be written with no prior knowledge of the schema. **Science & Technology of Consciousness:** Nature functions in the most efficient way.
2. An Avro datafile (.avro) is language neutral and has a metadata section where the schema is stored, which makes the file self-describing. It also includes markers that can be used for splitting large datasets into subsets (HDFS blocks) which makes it very suitable for MapReduce processing. **Science & Technology of Consciousness:** Veda is structured in self-referral consciousness; the universe is structured in the Veda, so the universe is also structured in self-referral consciousness; therefore it is obvious that self-referral consciousness is the source, course and goal of gaining knowledge.
3. Avro has rich schema resolution capabilities. Schema used to read data need not be identical to the schema that was used to write the data. When you add a new field to the schema, the new field must be given a default value. Schema evolution is one of the important features of Avro. **Science & Technology of Consciousness:** Expansion of happiness is the purpose of life, and evolution is the process through which it is fulfilled. Life begins in a natural way, it evolves, and happiness expands. The expansion of happiness carries with it the expansion of intelligence, power, creativity, and everything that may be said to be of significance in life.

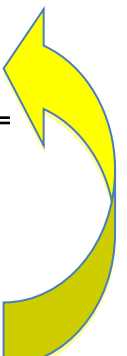
### UNITY CHART

#### CONNECTING THE PARTS OF KNOWLEDGE WITH THE WHOLENESS OF KNOWLEDGE:

##### Cross-language Data Serialization System

1. Schema with documentation is in-built in Avro data files.
2. Avro-Tools library provides some command lines tools which can be easily used to read, write and convert Avro files.

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3. **Transcendental consciousness:** is the experience of the simplest and most abstract state of awareness which underlies all states of greater excitation.



4. Impulses within the Transcendental Field: Nature accomplishes what it needs by having its impulses in the transcendental field be as efficient as possible.
5. Wholeness moving within itself: In unity consciousness one experiences that all layers of the universe are only different expressions of the same infinite field of pure consciousness.