Triggers and Output Modes

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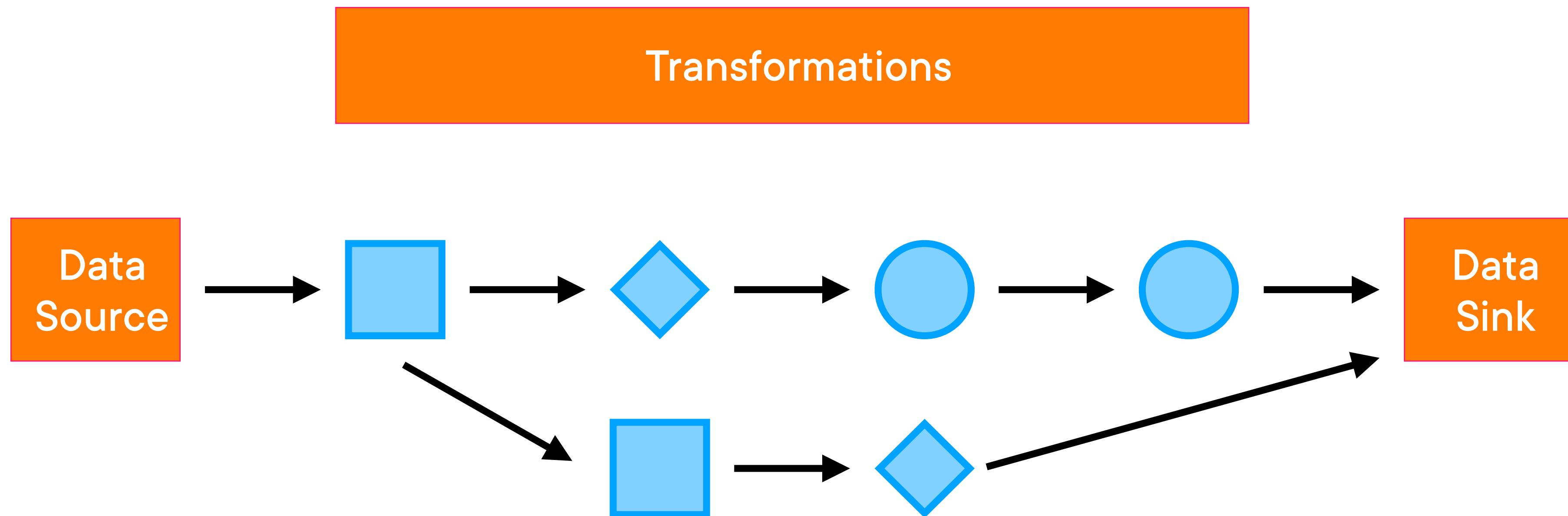# Output Modes in Spark Streaming

Stream Processing Model

When writing to the sink the entire table is not materialized
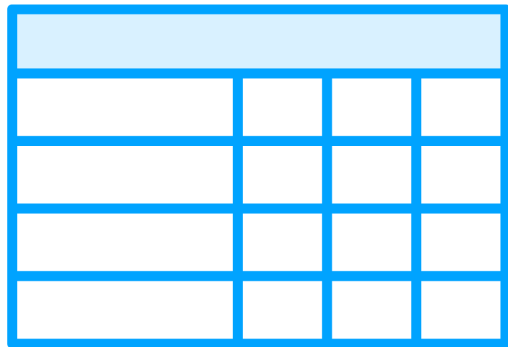
What is written out depends on the mode

Output Modes

Data Sink

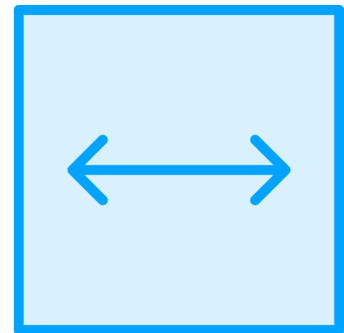**Determines what Result Table rows get sent to storage**

- Append mode

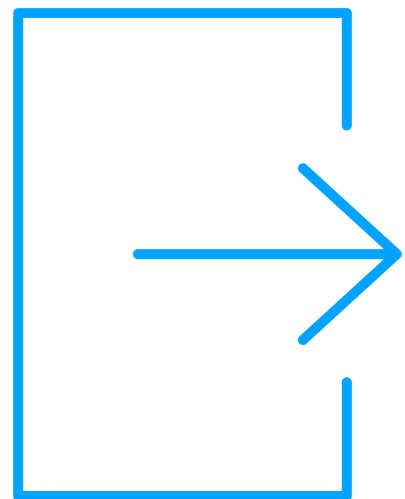**- Complete mode**

- Update mode

Output Modes

Append mode – only rows appended since last trigger. Existing output rows cannot change

Complete mode – entire updated result table is written to the sink. Destination must decide how to use all that data

Update mode – only result table rows updated since last trigger written to the sink. Previous results will be updated in case of aggregations
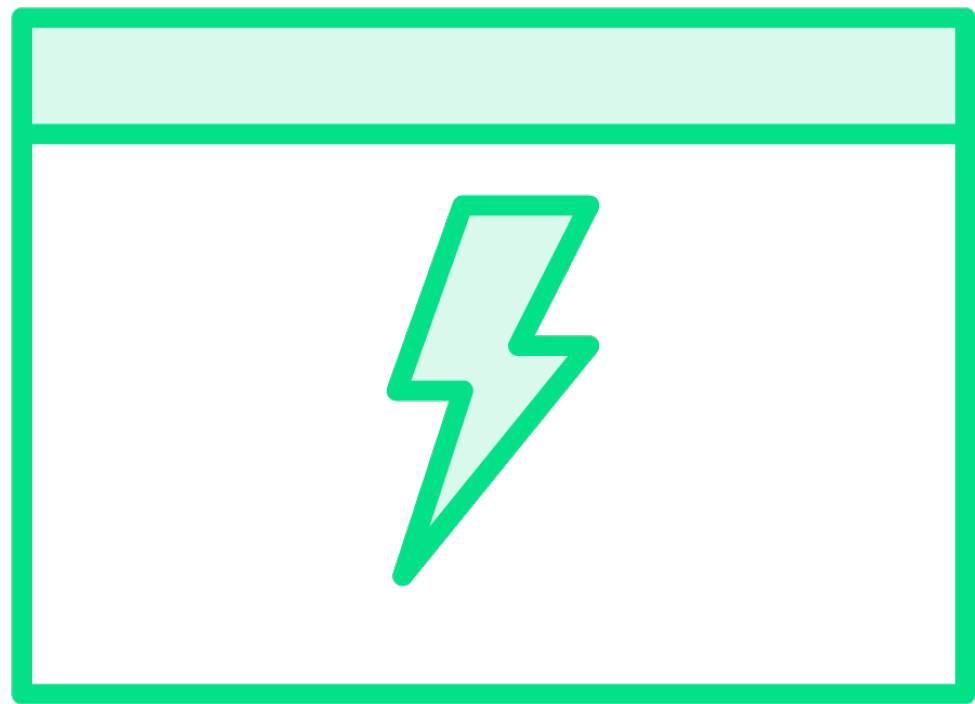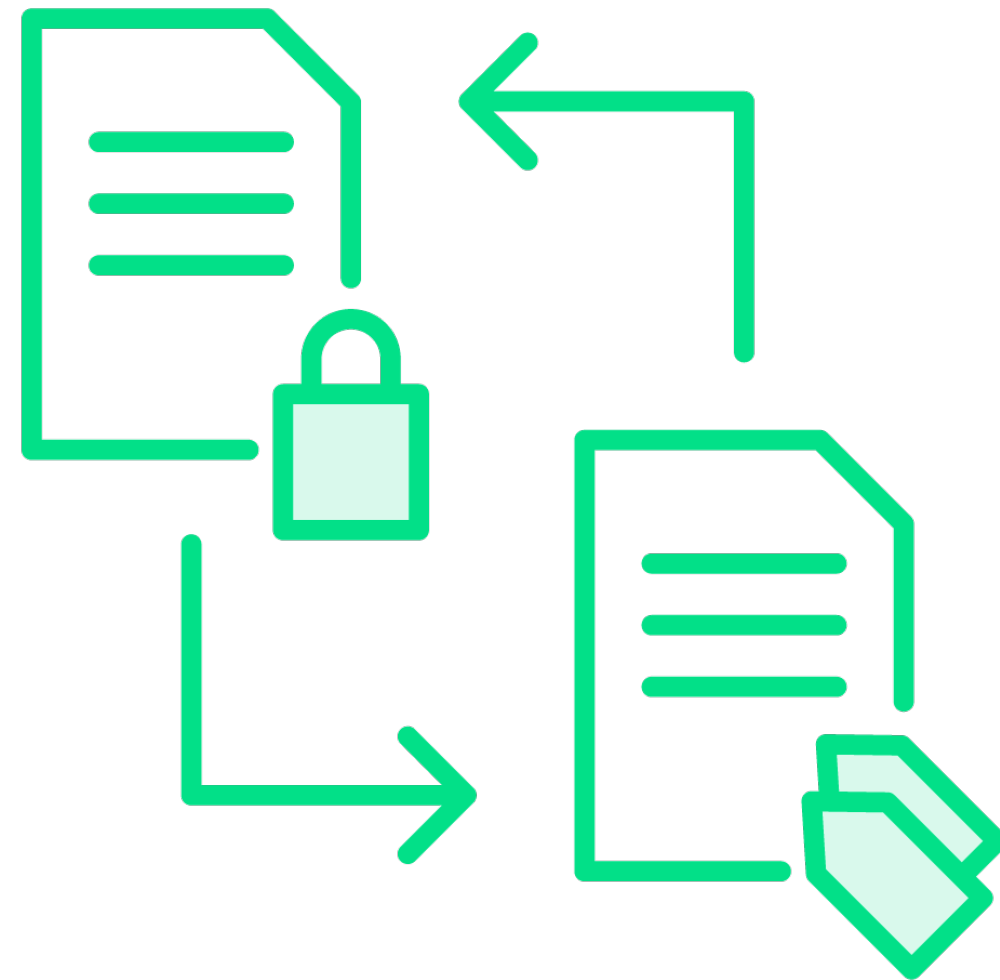
Triggers in Spark Streaming

Trigger

Define the timing of streaming data processing
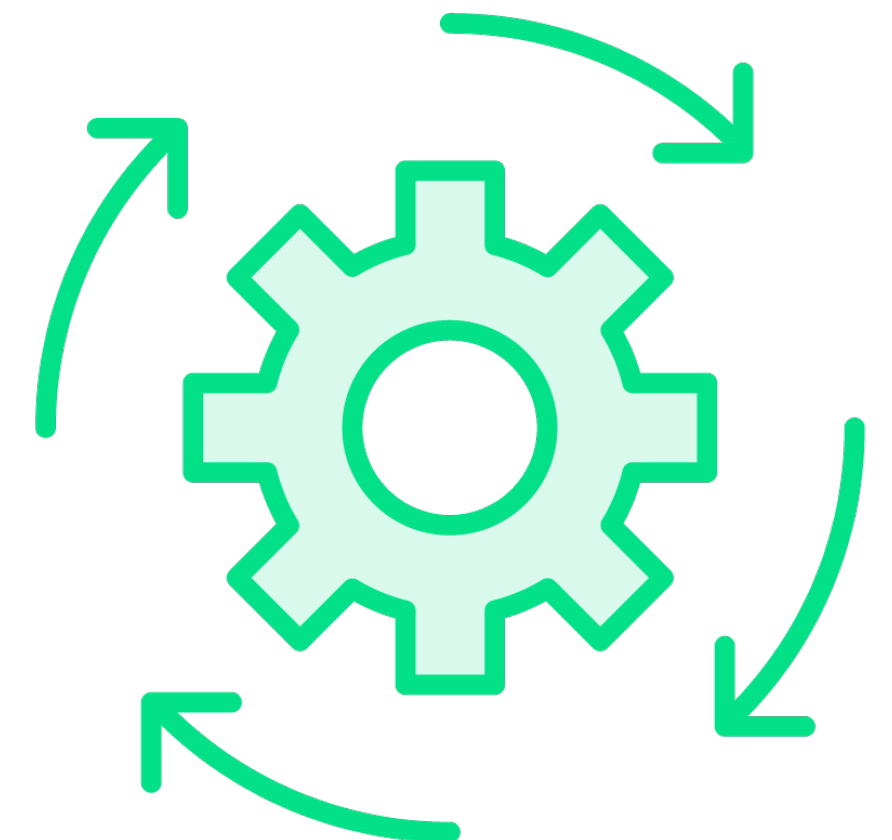
Triggers in Spark Streaming

Default trigger

Fixed-interval micro-batches

Available-now micro-batch

Continuous processing