Observable Composition and Filtering

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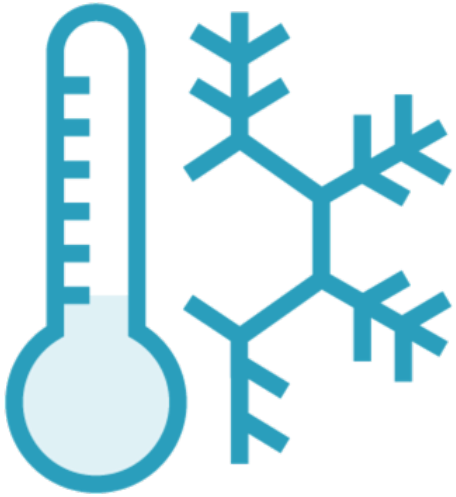
Observable Composition and Filtering

- “Cold” vs “Hot” Observables
- Observable Creation Methods
- Marble Diagrams
- Stream Filter Operators
- Positional Operators
- Time-Based Operators

Cold vs. Hot Observables



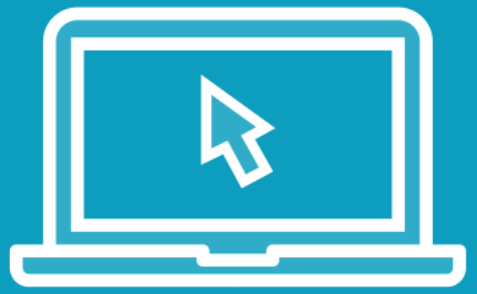
Cold Observables

Like listening to a podcast. Each subscriber can hear the whole podcast.

Hot Observables

Like watching broadcast TV without a DVR. You only get data from the point you tune in.

Demo

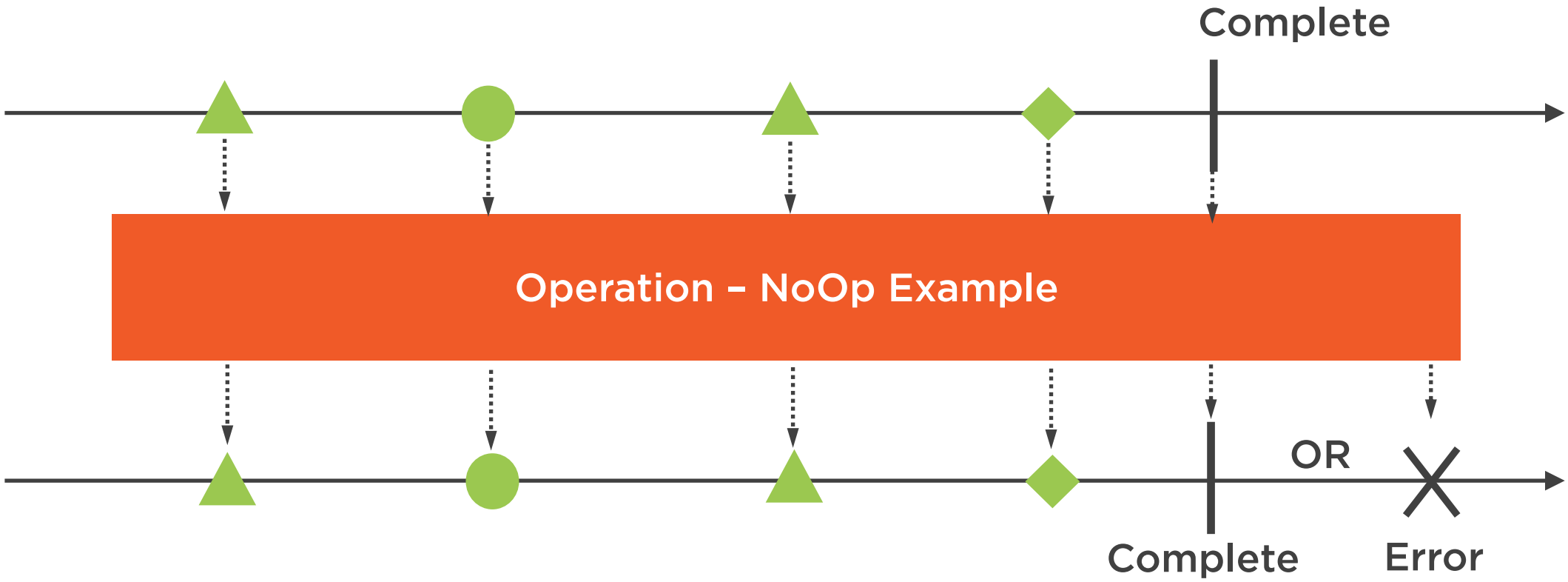


Observable Creation Methods

- just
- fromXXX
- create
- generate
- Cold vs Hot Observables

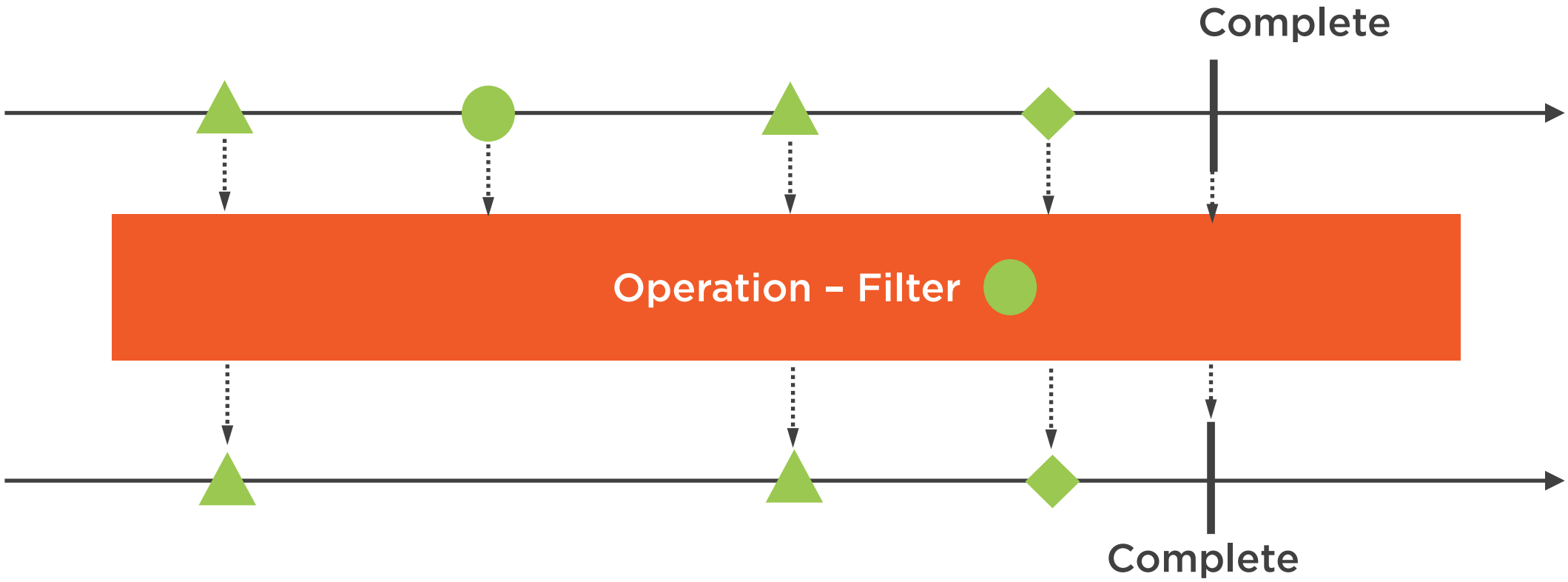
Marble Diagrams

Marble Diagrams

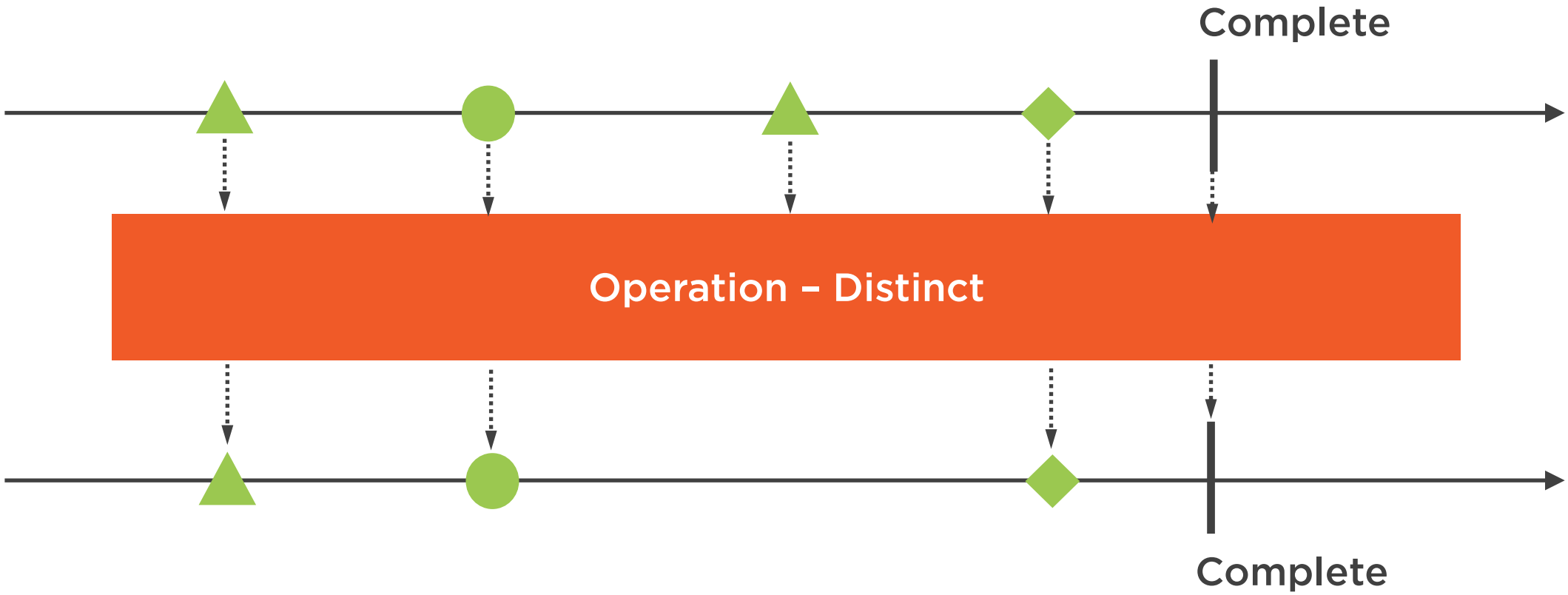


Stream Filter Operators

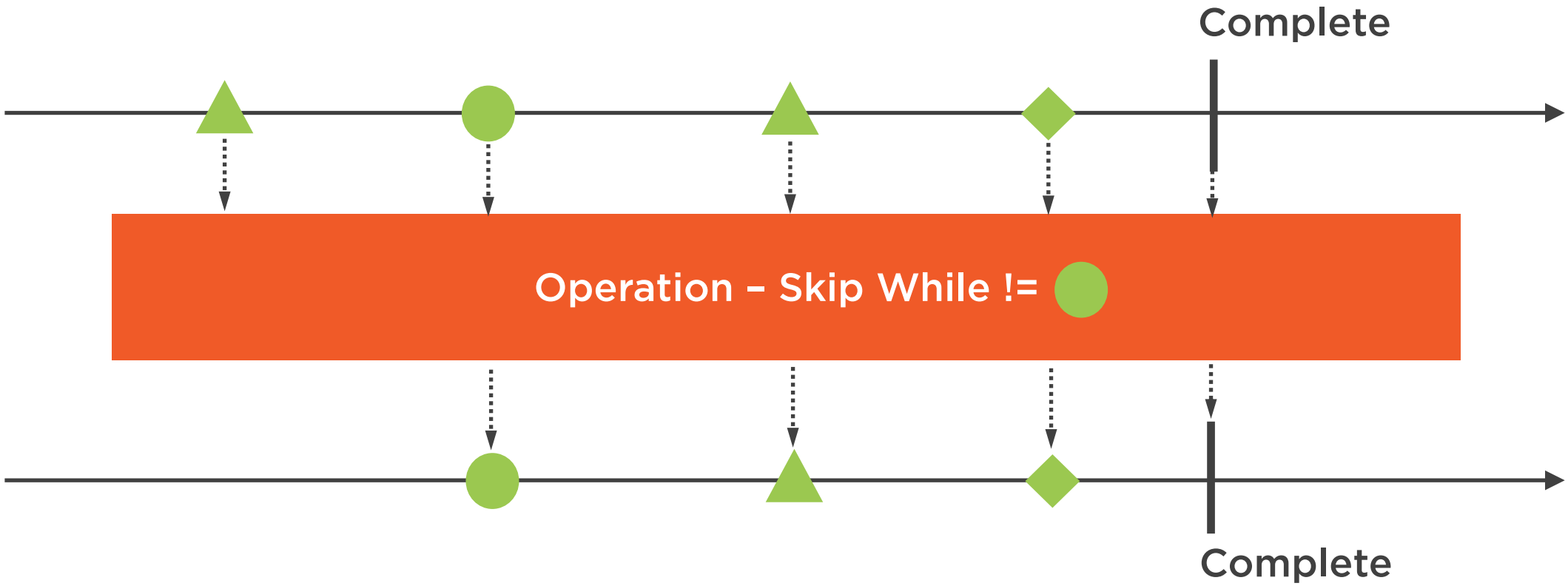
“filter” Operator



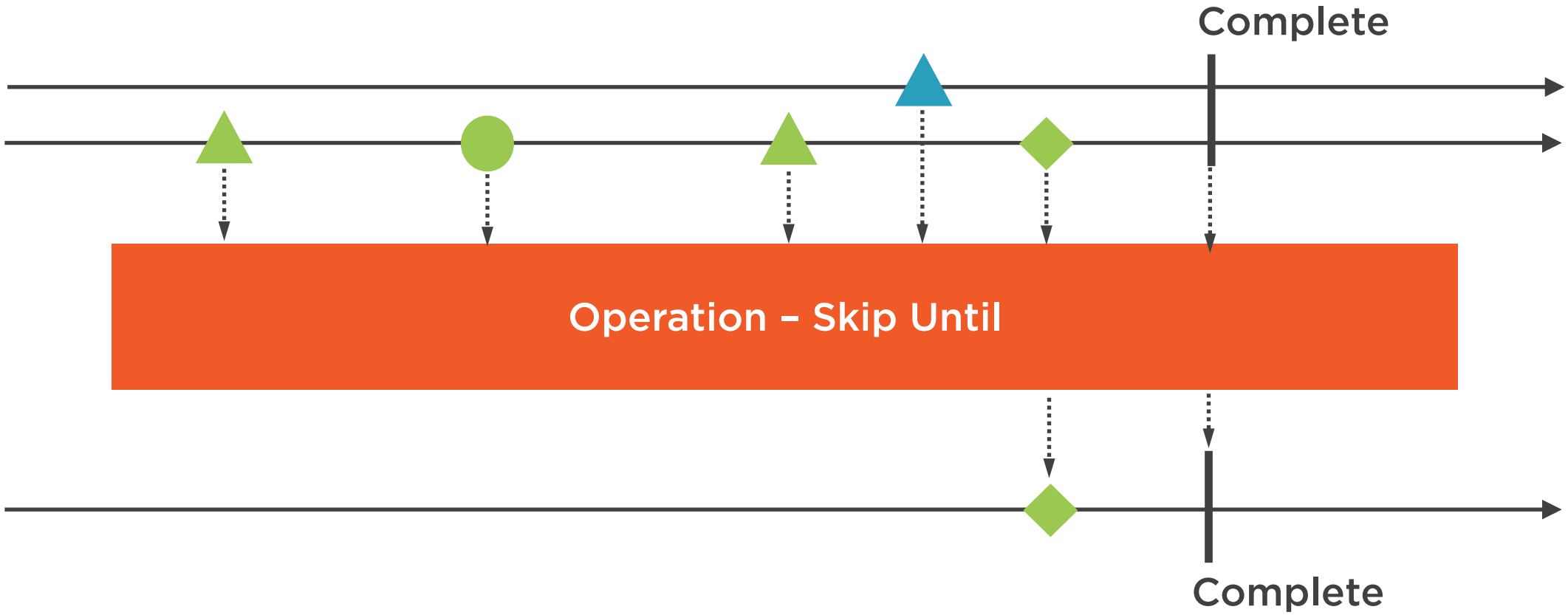
“distinct” Operator



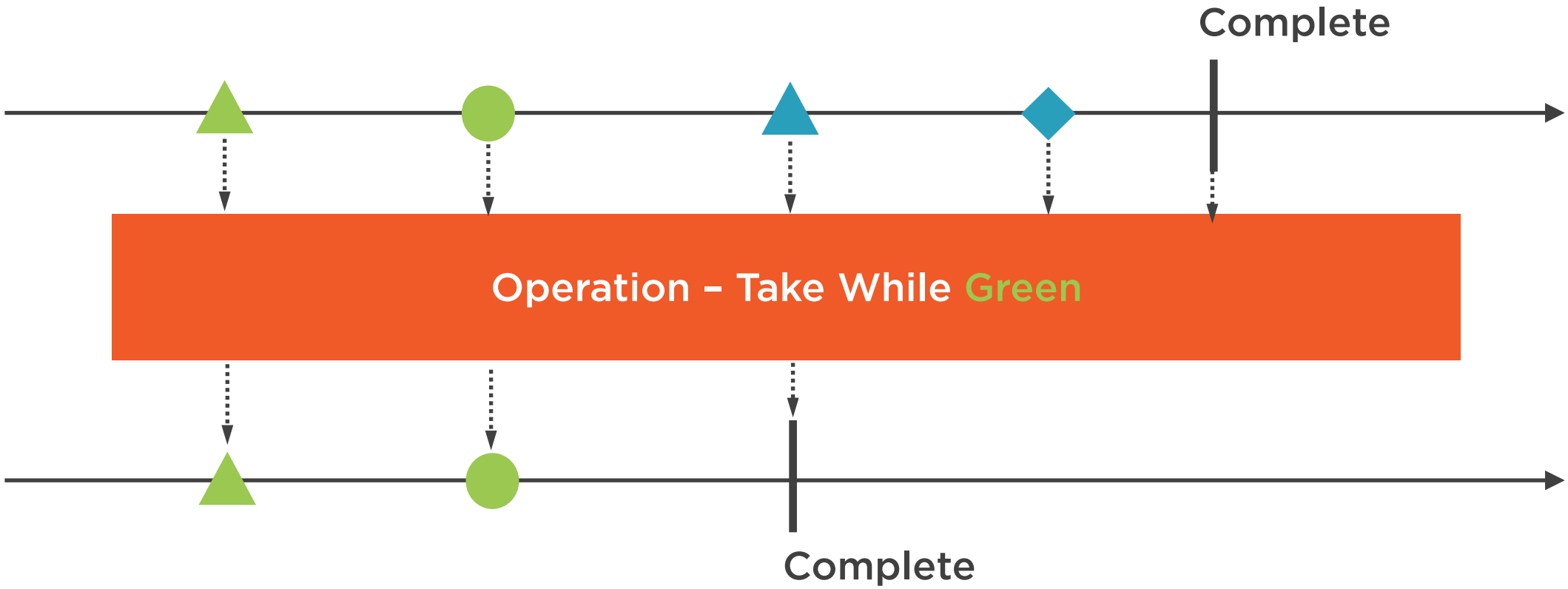
“skipWhile” Operator



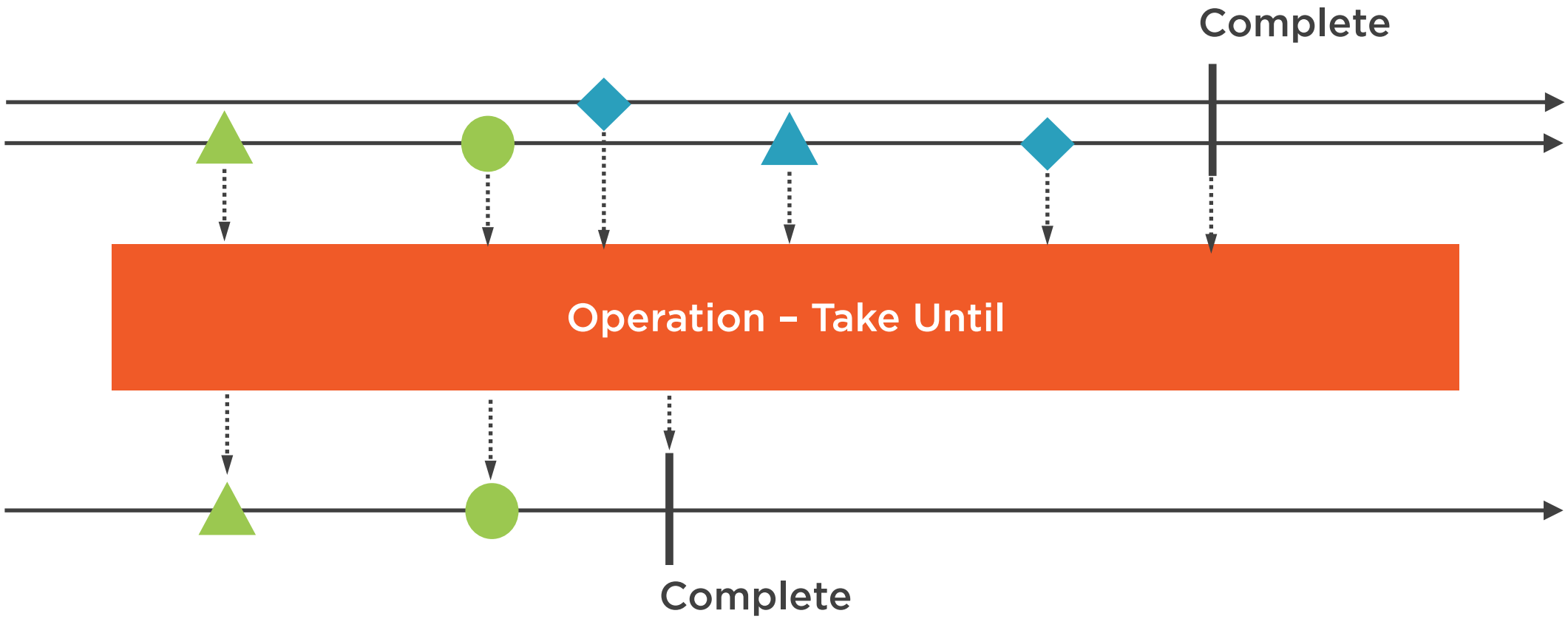
“skipUntil” Operator



“takeWhile” Operator



“takeUntil” Operator



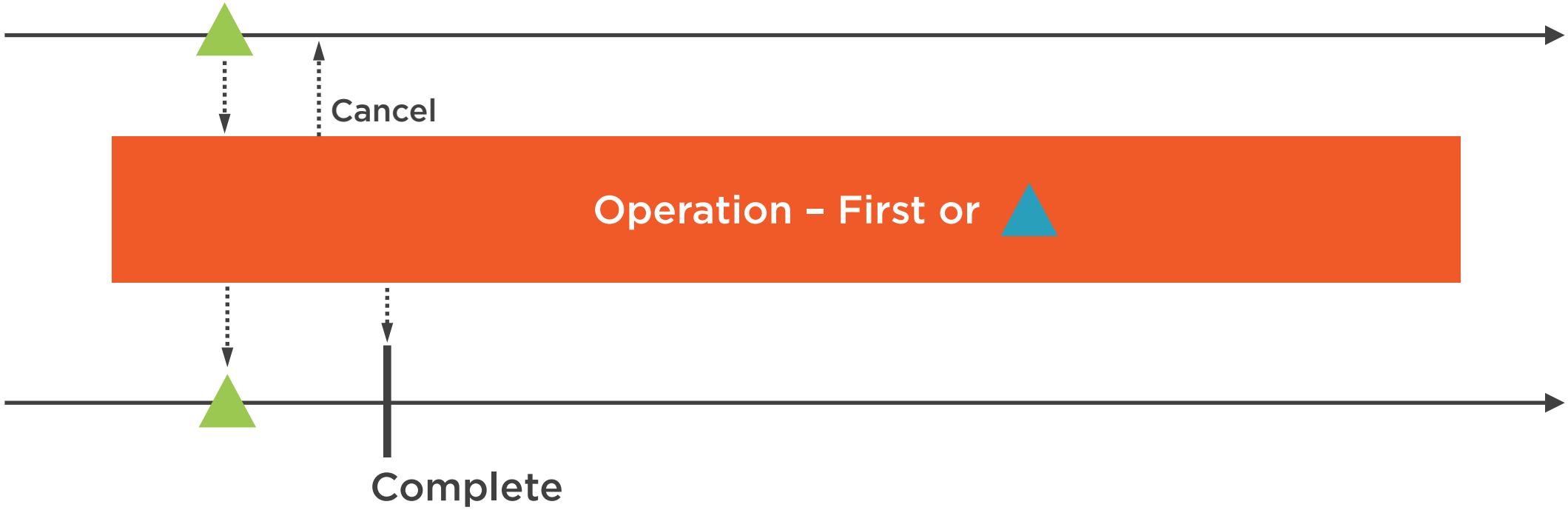
Demo

Stream Filter Operators

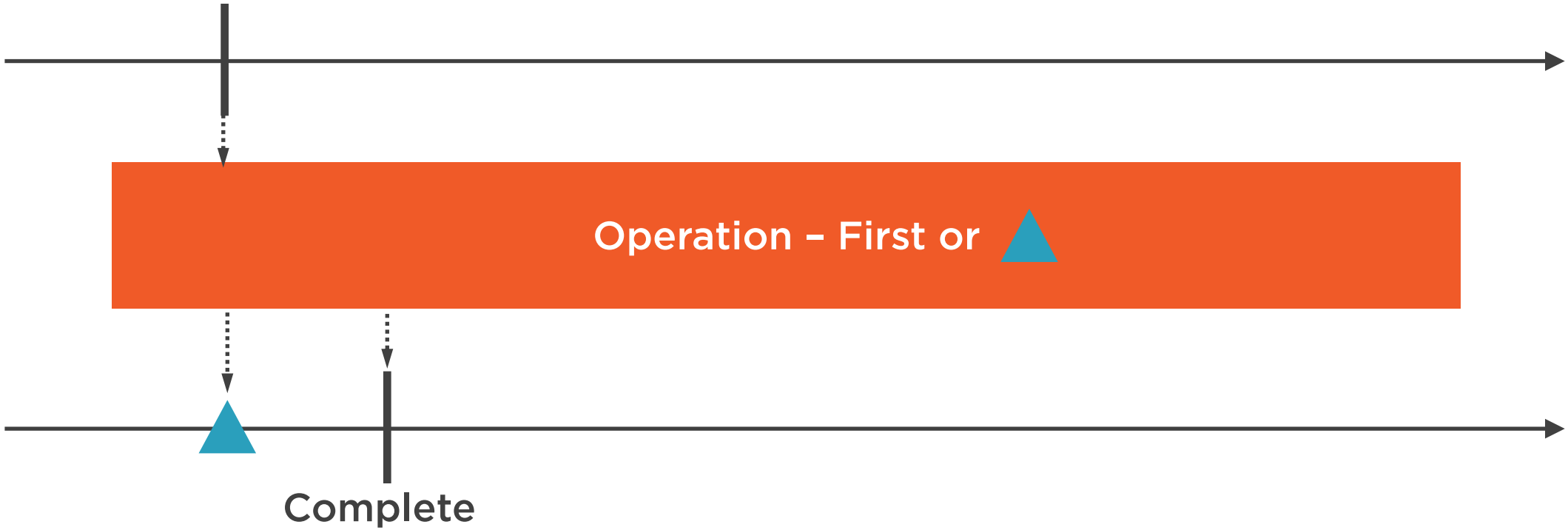
- filter
- distinct
- skipWhile
- skipUntil
- takeWhile
- takeUntil

Positional Operators

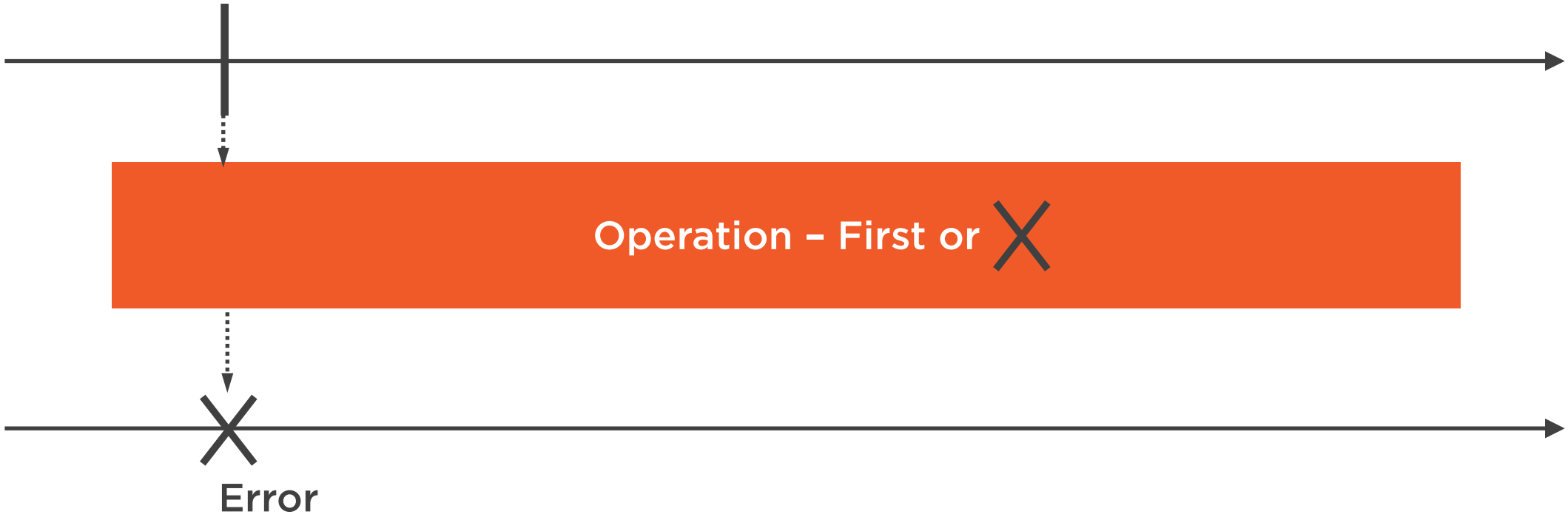
“first” Operator



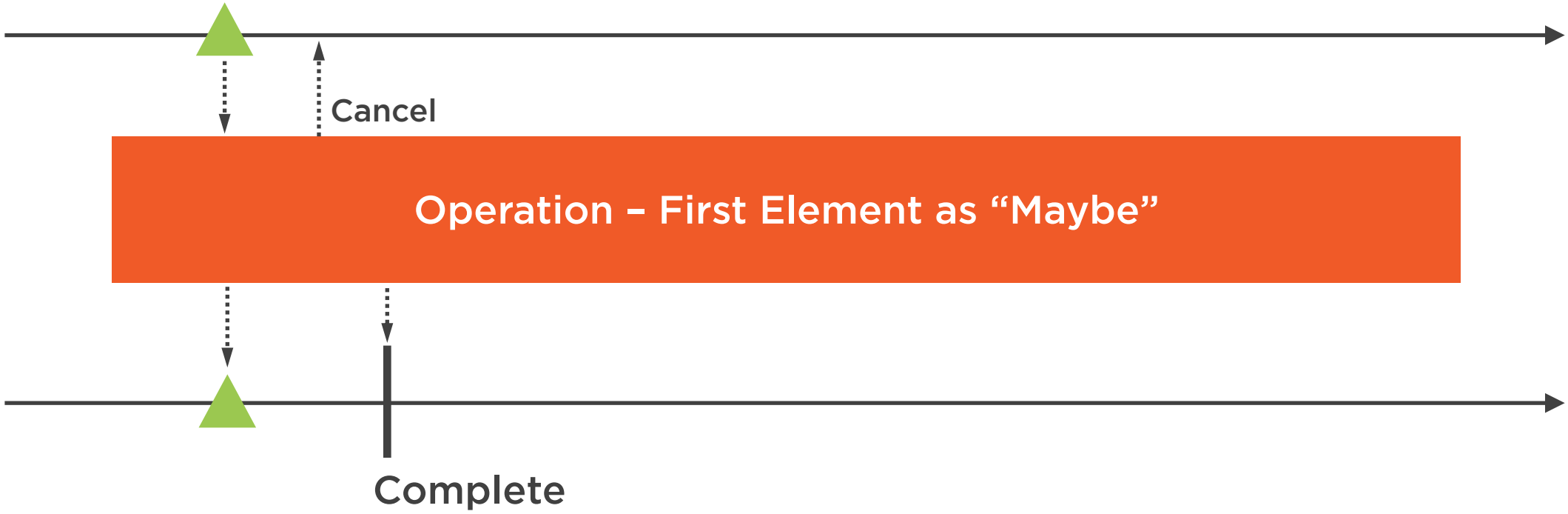
“first” Operator



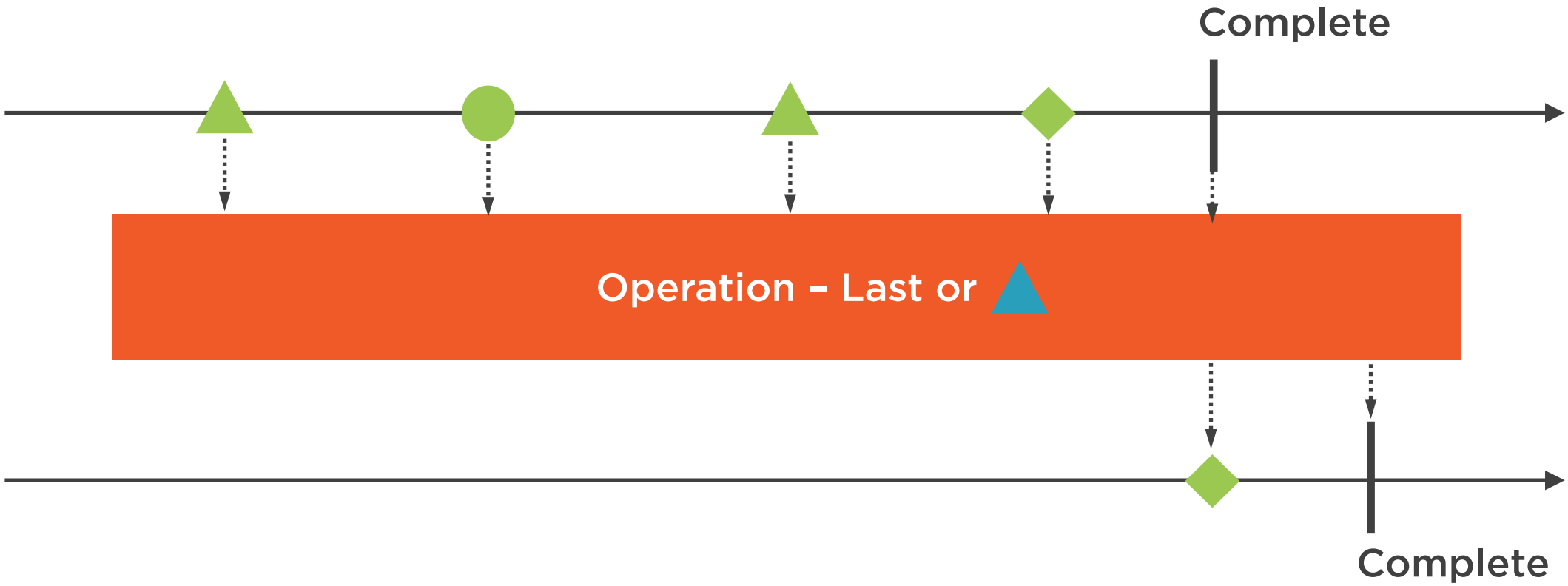
“firstOrError” Operator



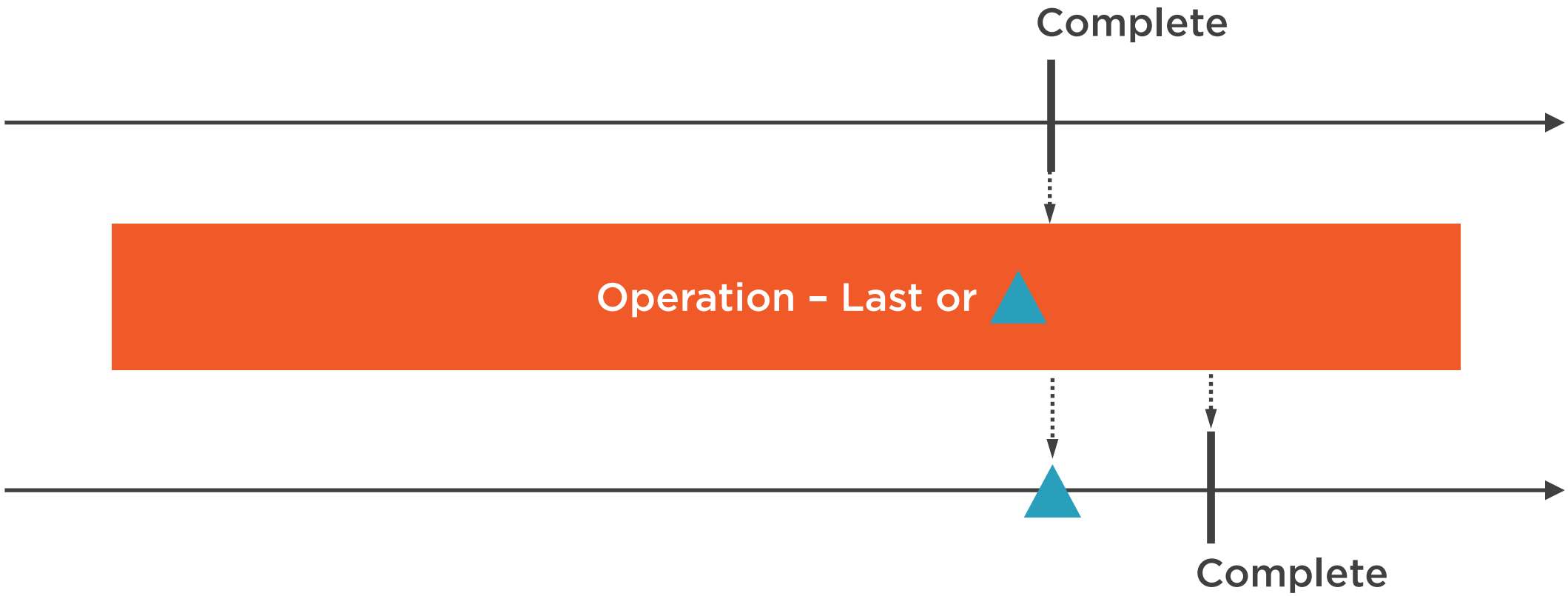
“firstElement” Operator



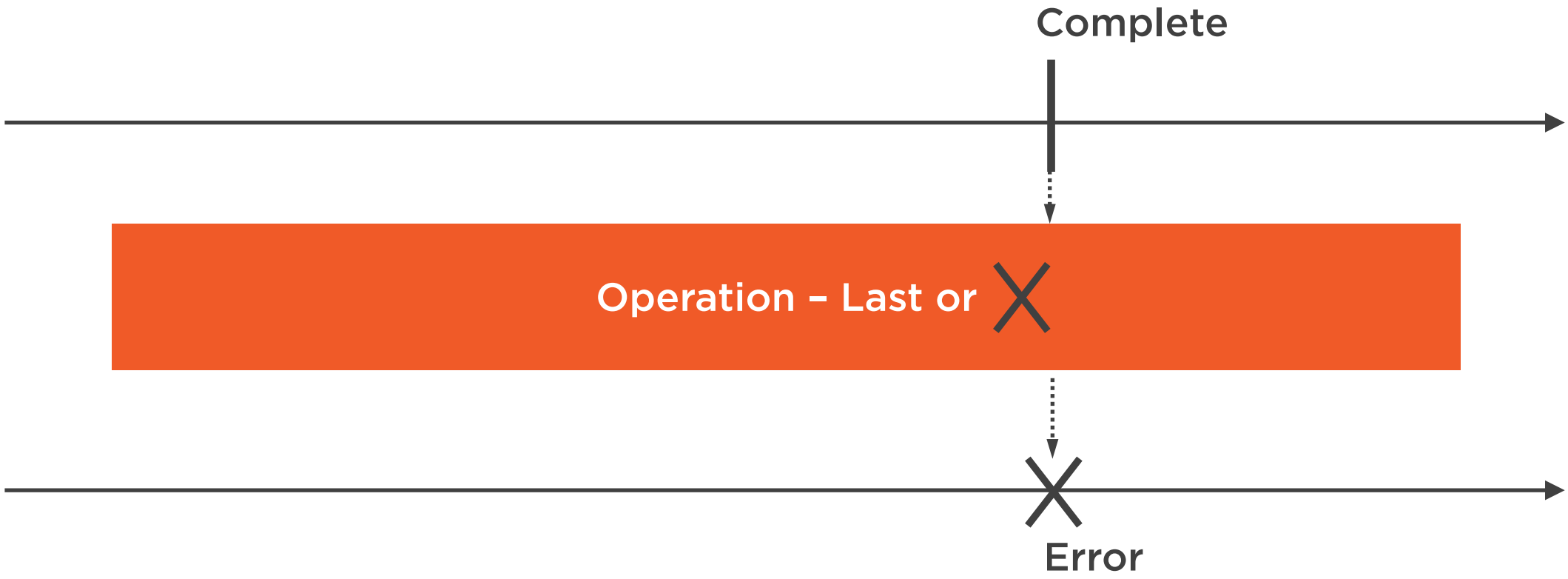
“last” Operator



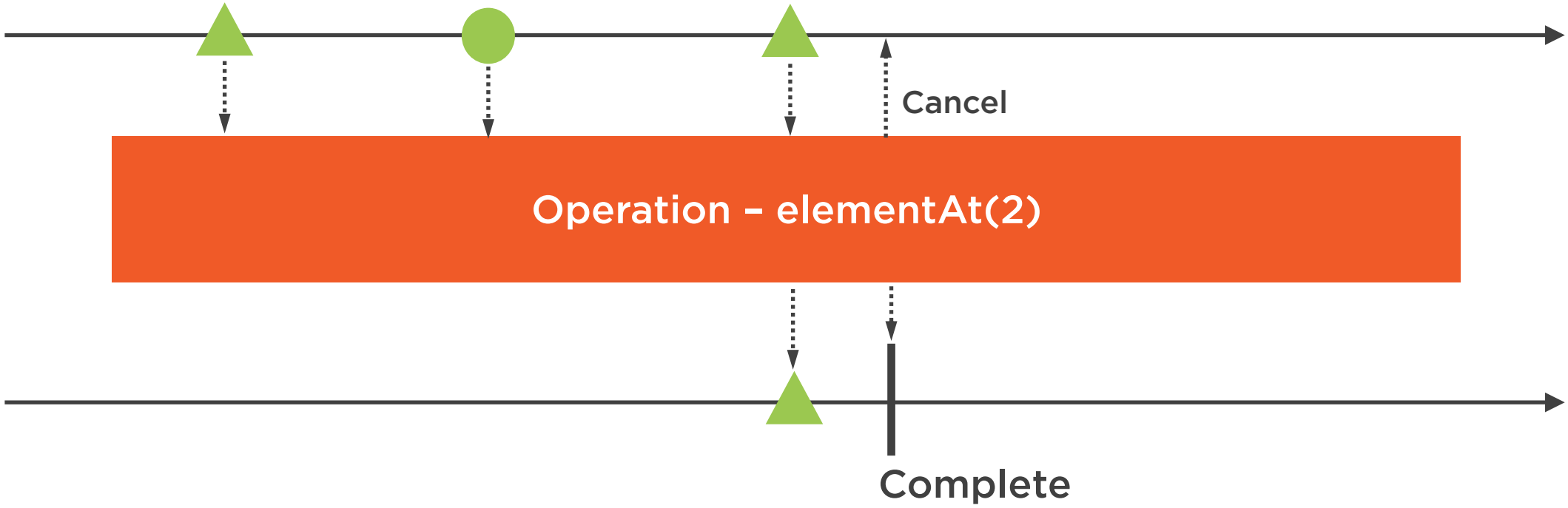
“last” Operator



“lastOrError” Operator



“elementAt” Operator



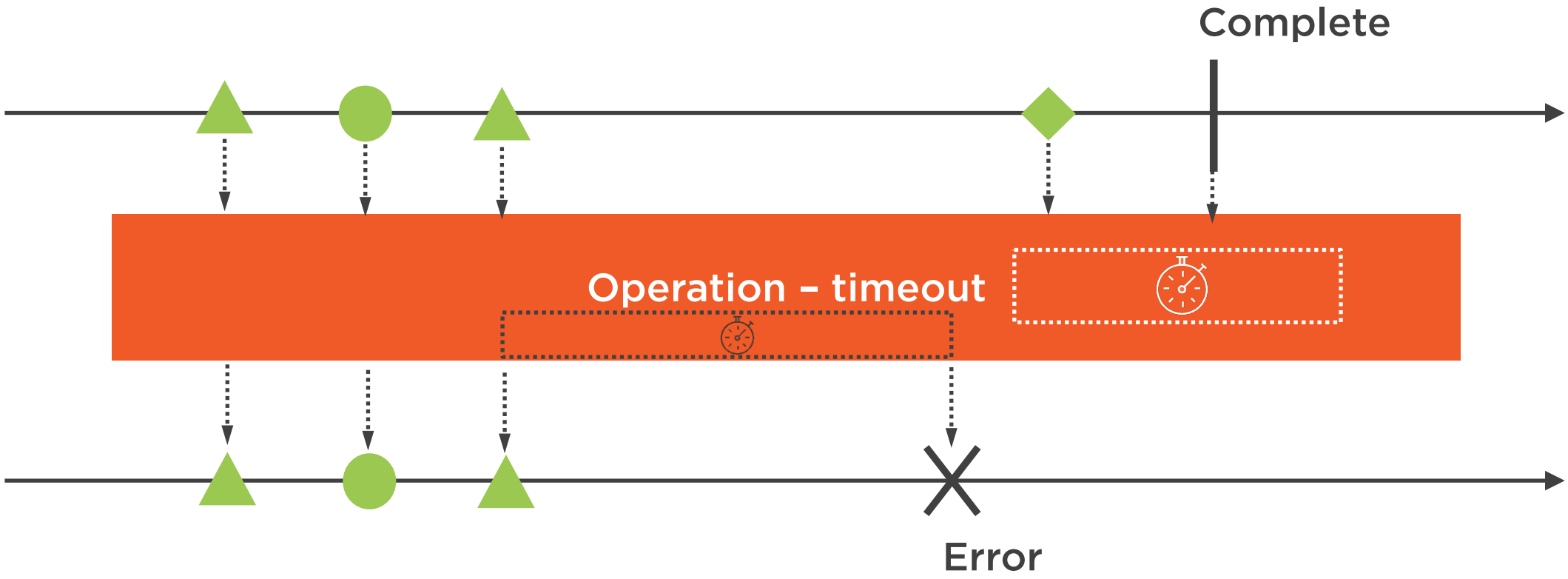
Demo

Positional Operators

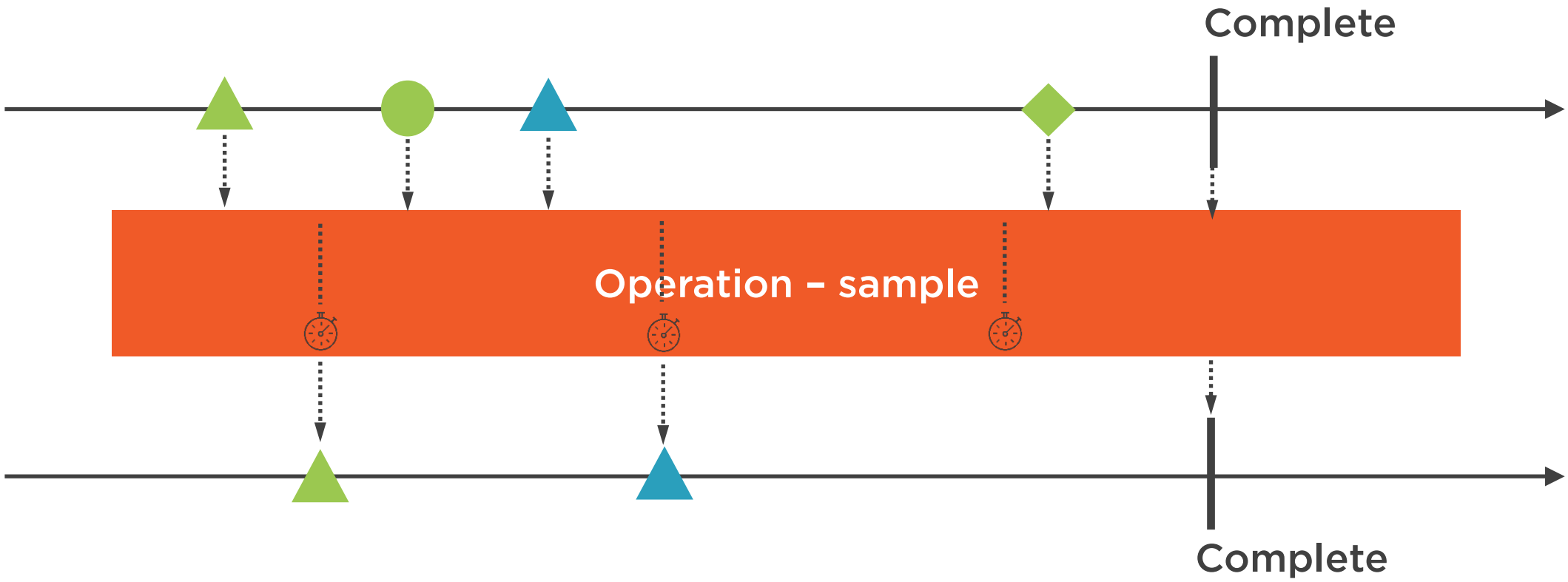
- first
- firstOrError
- firstElement
- last
- lastOrError
- elementAt

Time-Based Operators

“timeout” Operator



“sample” Operator



Demo

Time-based Operators

- timeout
- sample