The Reactive Mindset

Avadhoot Pitambare • April 2018
What are Reactive Applications?

The Reactive Manifesto (www.reactivemanifesto.org)

Responsive
Resilient
Elastic
Message Driven
What are Reactive Applications?

Wikipedia

“reactive programming is a declarative programming paradigm concerned with data streams and the propagation of change. This means that it becomes possible to express static (e.g. arrays) or dynamic (e.g. event emitters) data streams with ease via the employed programming language(s), and that an inferred dependency within the associated execution model exists, which facilitates the automatic propagation of the change involved with data flow”
What do you mean?
What are Reactive Applications?

“Reactive programming is programming with asynchronous data streams”

- André Staltz
Event Streams

stream 1

stream 2

merge
Message Driven

- Request to FetchData Actor
- Fetch data from FetchData FromDb Actor
- Store data to Aggregate Data Actor
- Output from Aggregate Data Actor
Key Points

- Lambda
- Concurrency
- Composition
- Mental Map
- Laziness
- Debugging
- Testing
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