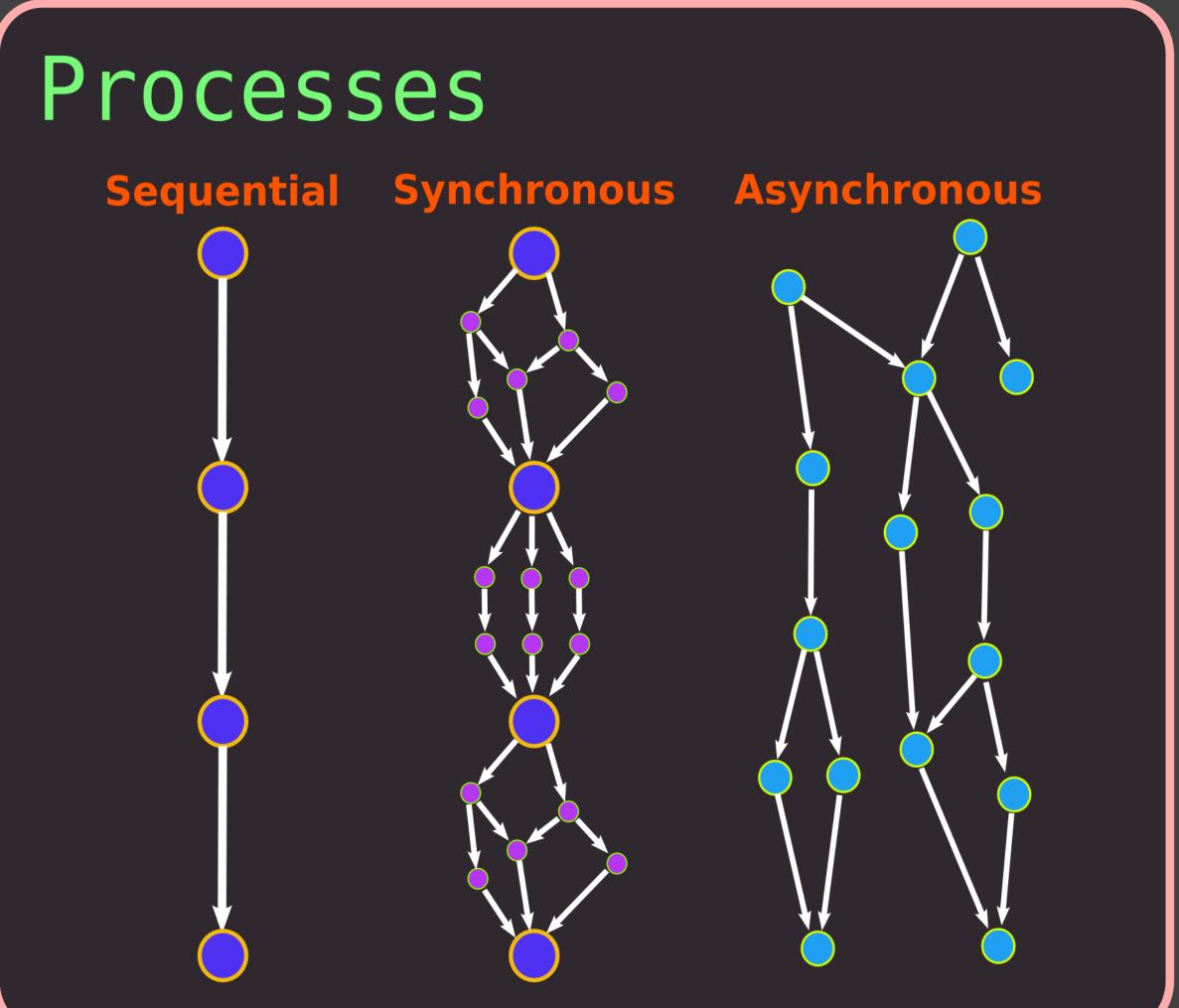
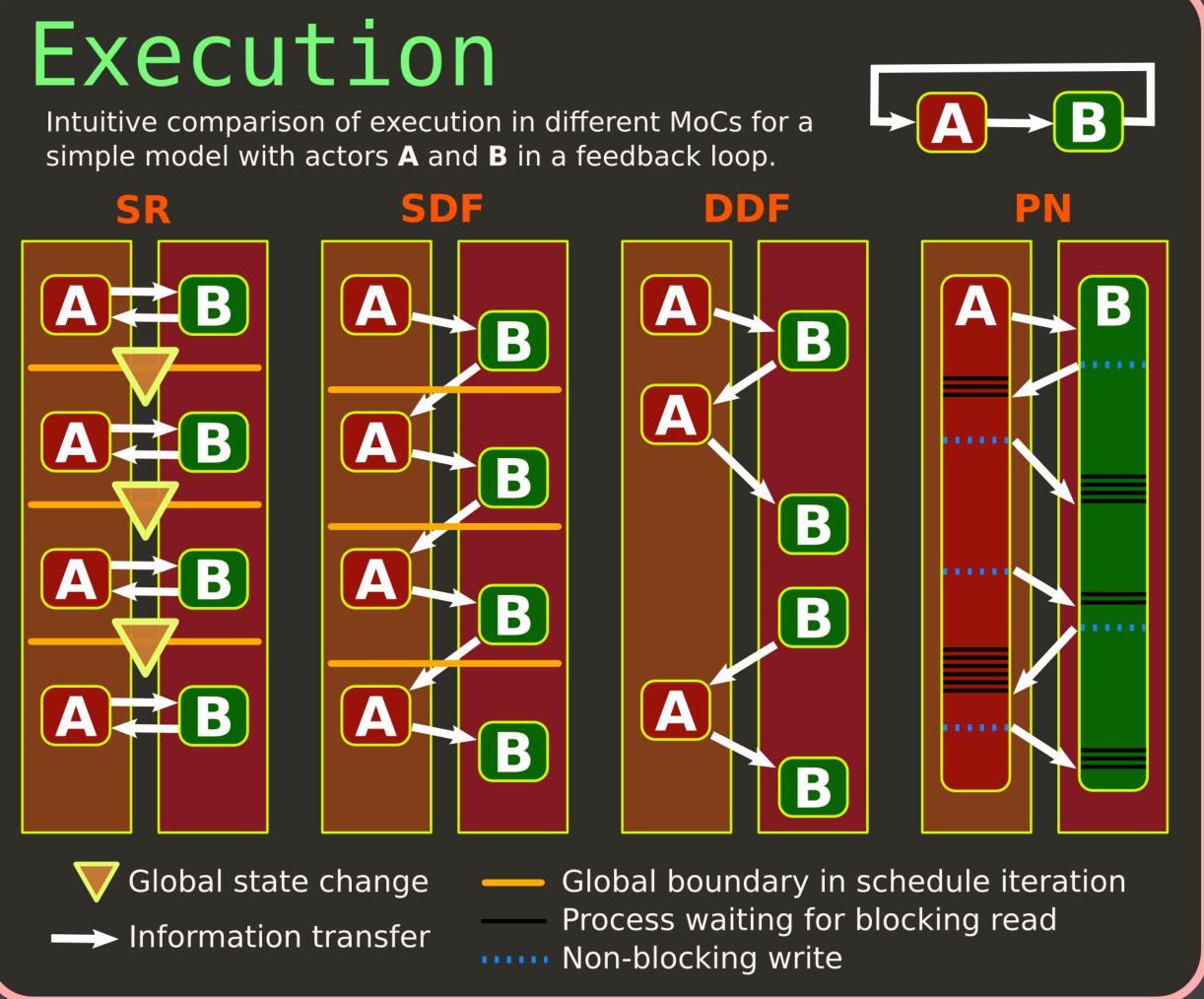
Taxonomy of Models of Computation

Chris Shaver, Marten Lohstroh @ UC Berkeley









Synopsis

State Machines

Single active state, transitions are conditioned on input.

Modal Models

State machines where states can have refinements.

Coroutine

Control transitions determined by stated components.

Discrete Event

Timed, discrete interactions between actors.

Synchronous reactive

All components synchronously react to an input.

Process Networks

Concurrent actors exchanging messages (KPN: blocking reads).

Rendezvous

Message passing with blocking reads and blocking writes.

Dynamic Dataflow

Actors that fire upon reception of a variable number of tokens.

Synchronous Dataflow

Actors that fire upon reception of a static number of tokens.

