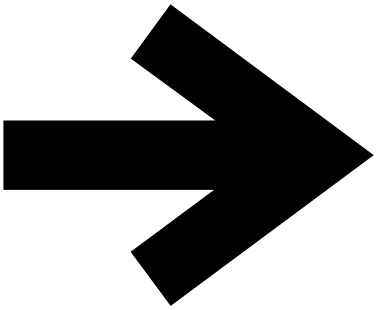


Formal Methods

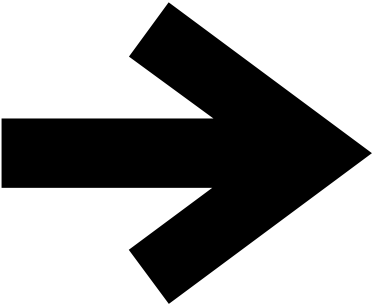
Reactive Synthesis

`Design correct-by-construction
controller'



Formal Specifications

over *I* *U* *O*




A system that satisfies
the specification

OpenSystems



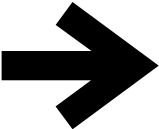
Game $G(\mathcal{A}_\rho, I, O)$

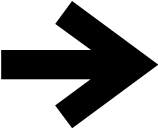


*System's
winning strategy*

LTL formula φ

Deterministic Parity Automaton \mathcal{A}_ρ

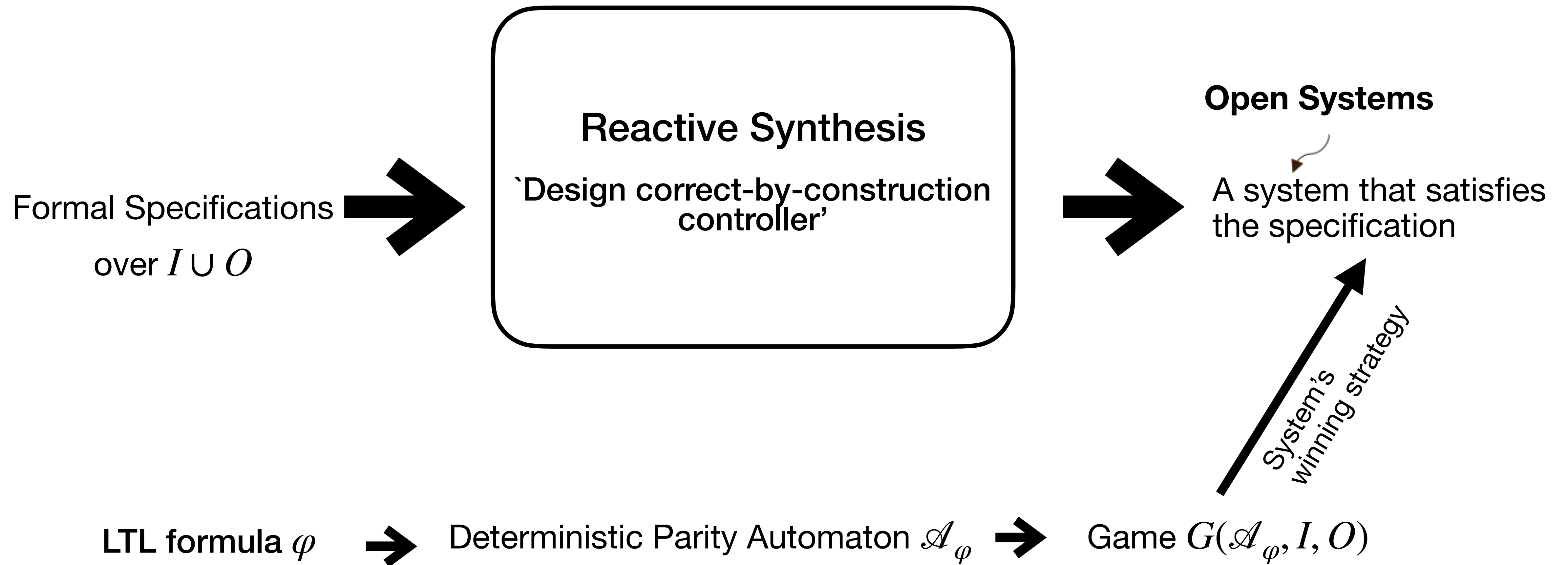




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Formal Methods



Example

