

Plutus

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Purely Functional

Strong Static Types

Formal Specification

Purely Functional

No side effects!

No state / mutation.

No implicit failures.

Strong Static Types

Everything has a type

All types are explicit

User-defined algebraic data

Effects are explicit in types

Formal Specification

Formal Type Theory

Simple Core Language

Big Step Semantics

Stack Machine Semantics

Contract Verification

Richer type systems

Agda

Coq

Isabelle