Solve · Cradle

CRADLESCRIPT · ONE SOURCE, EVERY MAJOR CHAIN

Write a contract once. Ship it to every major chain.

CRADLE compiles one chain-blind source, in CradleScript, Rust or Solidity, into idiomatic Solidity for every EVM network, a native Solana program, near-sdk and ink! WASM, and Aptos and Sui Move. Twenty-three security checks run on the intermediate representation before anything is lowered, costs are estimated per chain, and every capability is proven by on-chain conformance suites.

Open Cradle Studio | Pitch deck | solvelang.com | Read the guide

SIX TARGETS, ONE SOURCE

Idiomatic on each chain, not

lowest common denominator

EVM
Solidity for Ethereum, BNB Chain, Polygon, Arbitrum, Optimism, Base and every other EVM network. One canonical address across all of them.

Solana
A native program with real PDAs, rent and SPL token CPI. Anchor-class output.

NEAR
near-sdk WASM.

Polkadot
ink! WASM.

Aptos
Move, with native Coin handling.

Sui
Move, with native Coin handling.

A REAL EXAMPLE

A tip jar, in CradleScript

Value in, value out, an owner guard and a read-only view. This is the whole contract, taken from the examples folder that ships with CRADLE.

```
blueprint TipJar {
    store {
        owner: address protected = sender;
        collected: amount = 0;
    }

    // value IN: anyone tips the jar
    funded action tip() {
        collected = checked_add(collected, received);
    }

    // value OUT: the owner withdraws
    action withdraw(amount: amount) {
        ensure(sender == owner, NotOwner);
        ensure(collected >= amount, Insufficient);
        collected = checked_sub(collected, amount);
        dispatch(sender, amount);
    }

    read action total() -> amount { give collected; }
}
```

out/TipJar.sol

Idiomatic Solidity: payable function, checked call for the transfer, owner modifier.

out/tipjar_solana.rs

A native Solana program: lamports move from the program account to the recipient.

tipjar 7/7

Every path exercised on a real validator and on ganache, on every push.

Build it: `cradle build examples/tipjar.cradle`

THE PIPELINE

Security sits on the build's critical path

One rule protects every target chain, because the checks run on the shared representation, not on each output.

Source

CradleScript, Rust or Solidity. Write it once, chain-blind.

CRADLE IR

The keystone. One representation every adapter lowers out of.

USVE `23 analyzers`

Reentrancy, access control, arithmetic and more, found once on the IR. A high-severity finding blocks the build.

QRRO `cost report`

Per-chain gas and compute units estimated against real limits, so surprises surface at build time, not on mainnet.

Adapters

EVM · Solana · NEAR · Polkadot · Aptos · Sui. Idiomatic output on each.

PROVEN ON-CHAIN, NOT JUST COMPILED

Every capability has a conformance suite

Each row is a deployed suite that runs live on a validator and on an EVM node in CI.
The green badge in the Studio comes from these runs.

CRADLESCRIPT CAPABILITY	EVM LOWERING	SOLANA LOWERING	SUITE
State, roles, owner guard, pausable, reentrancy guard, records, time	Storage, modifiers, structs, block.timestamp	Account data, guards, Borsh, Clock sysvar	`counter 7/7`
Per-key accounts	mapping(K ⇒ Struct)	One PDA per key, rent paid, invoke_signed	`pda_bank 7/7`
Native value in and out	msg.value, checked transfer	System-transfer CPI, direct lamport move	`tipjar 7/7`
Fungible-token transfer	IERC20 transfer	SPL Token CPI signed by the program PDA	`token_vault 6/6`
Bounded loops	for loop	for loop	`batch 3/3`
Gasless onboarding	—	Program treasury funds PDA rent	`gasless`
All of the above in one program	—	—	`stake_pro 7/7`

CRADLE STUDIO

A web IDE that also

writes the contract for you

No-code builder

Pick a template, fill a form. CRADLE writes an audited, OpenZeppelin-based contract, scans it, deploys it and exports a ready-to-use dApp page. On Solana: SPL tokens and NFTs with Metaplex metadata through Phantom.

AI builder

Describe a contract in plain English. It generates, compiles and auto-fixes errors. A local generator with no API key works offline too.

Chain chooser

Pick EVM or Solana on entry and switch any time. Inline errors with click-to-line, a clear pass or fail security gate, capability chips.

Runs on your machine

Monaco, ethers and the Solana libraries ship with the Studio. No CDN, nothing leaves 127.0.0.1 unless you deploy.

Open Cradle Studio | **Powered by Solieum**

MORE FROM THE BOOTH

Solieum

Layer 2 for Solana. Fast off-chain, final on Solana.

AI CONTROL

Human authority over autonomous intelligence.

Solieum pitch deck

38 slides, or a 16-slide summary. Also as PDF.

AI CONTROL pitch deck

12 slides. Also as PDF.

Solve · Cradle pitch deck

12 slides. Also as PDF.

DIGITAL BROCHURE

Scan to download this brochure

Point your camera at the code and this brochure opens on your phone. Share it, or add it to your home screen so it stays one tap away.

Save Trees · Save your content

https://solieum.com/brochures/solve

Solve · Cradle · © 2026 Solieum · Powered by Solieum

solvelang.com cradle.solvelang.com Guide t.me/solieumlabs x.com/solieum support@solieum.com

Printed nothing. This brochure exists only as a page, so save it to your phone instead of your pocket.