

Deploy Your First Smart Contract

A Visual Guide to Your First Blockchain Program

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Module H: Hands-On Workshops | 2026

What Is a Smart Contract?



Self-Executing

Code runs automatically when conditions are met



Lives on Blockchain

Deployed once, runs forever, visible to all

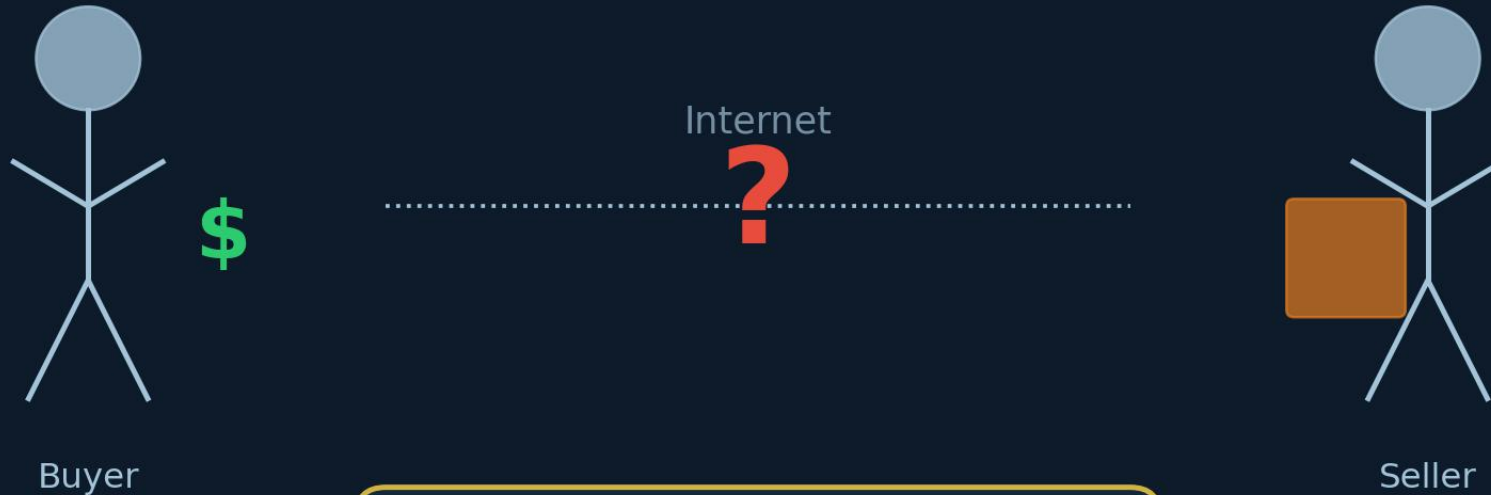


No Middleman

No lawyer, no bank, just code enforcing the agreement

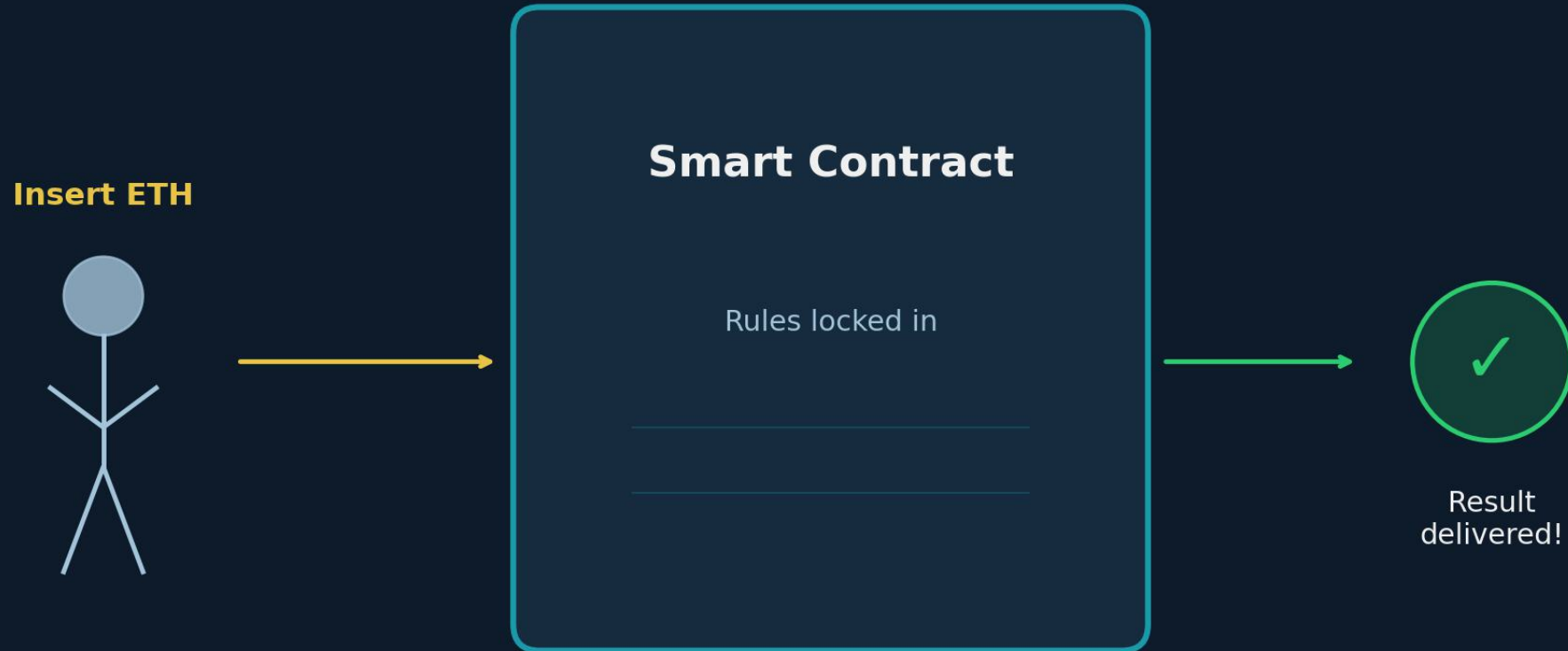
The Trust Problem

"How do I know you'll deliver?"



Smart Contract = The Solution

Smart Contract = Vending Machine



No lawyer. No bank. No middleman.

Where Does Your Contract Live?



Meet Remix IDE

1



File Explorer

Your .sol files

2



Code Editor

Write Solidity
here

3



Deploy & Run

Compile &
deploy

remix.ethereum.org

Set Up MetaMask

Your Identity on the Blockchain

Public Key

0xA3f...

Your address
(share freely)

MetaMask

Browser Wallet

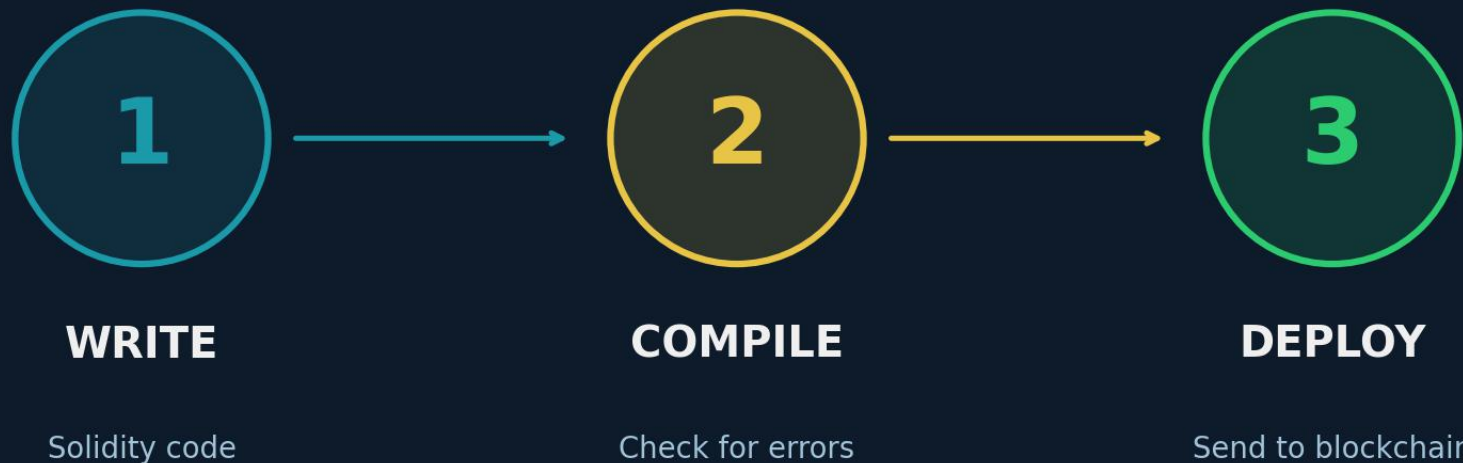
Private Key

****...

Your password
(NEVER share!)

⚠ Never share your private key with anyone!

Three Steps to Deploy



Step 1 — Write Your Contract

Version

Tell Solidity
which version

Contract Name

Give your contract
a name

Store Data

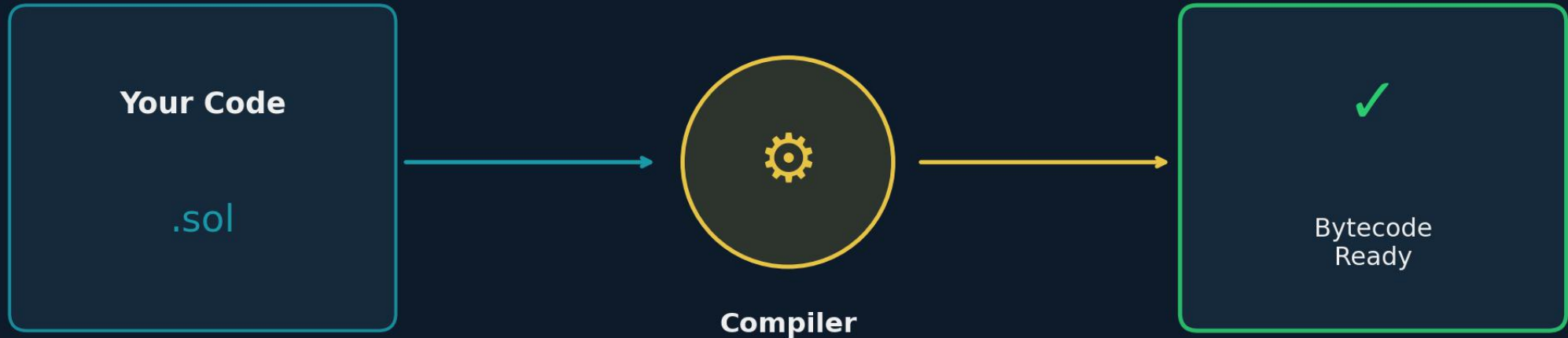
Save information
on the blockchain

Functions

Define what your
contract can do

Like building with LEGO — snap pieces together!

Step 2 — Compile



Green checkmark = Your code is valid!

Red X? Check your code for typos

Step 3 — Deploy



Your contract gets a unique address on the blockchain!

Interact with Your Contract

Fn

Call Functions

Press buttons to
run your code

?

Read Values

See stored data
(free, no gas)

Tx

Send Transactions

Change data
(costs gas)

Your contract is live — try it!

What Can You Build Next?

T

Your Own Token

ERC-20 standard
Create currency

N

Your Own NFT

ERC-721 standard
Digital collectibles

V

Voting System

On-chain governance
Transparent votes

Workshop W02 → Create Your Cryptocurrency!

You're a Blockchain Developer!

Your contract is LIVE on the blockchain

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