

The State of Source-Code Verification: Closed, Painful, and Ready for Change

Kaan Uzdoğan



sourcify.dev

ARGOT



Unable to understand the ERC-1155 standard

Smart Contracts erc1155

Log In



(2)

EIP-1155:

"A standard interface for contracts that manage multiple token types. A single deployed contract may include any combination of fungible tokens, non-fungible tokens or other configurations (e.g. semi-fungible tokens)."

a contract deployed based on eip-1155 allows us to manage multiple token types -- (a) fungible token(s) "without a decimal" along with (a) non-fungible token(s) -- **within one contract.**

i created a "simple" ERC1155-based nft collection deployed at goerli as an illustration:



Ethereum (ETH) Blockchain Explorer



[Simple1155 | Address](#)

[0x3ae337C693a9a0888998e475076e4eB964cc5b81 | Etherscan](#) 11

The Contract Address

0x3ae337C693a9a0888998e475076e4eB964cc5b81 page allows users to view the source code, transactions, balances, and analytics for the contract address. Users can also interact and make transactions to the contract directly on...

on the second txn i called `mintBatch` method on the contract:



Ethereum (ETH) Blockchain Explorer



[Goerli Transaction Hash \(Txhash\) Details | Etherscan](#) 4

Goerli (GTH) detailed transaction info for txhash

Nov 2022

9 / 15

Nov 2022

Nov 2022



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Web server is down

Error code 521

Visit cloudflare.com for more information.

2025-11-15 19:53:41 UTC



You

Browser
Working



Buenos Aires

Cloudflare
Working



goerli.etherscan.io

Host
Error

What happened?

The web server is not returning a connection. As a result, the web page is not displaying.

What can I do?

If you are a visitor of this website:
Please try again in a few minutes.

If you are the owner of this website:

Contact your hosting provider letting them know your web server is not responding. [Additional troubleshooting information](#).



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Web server is down

Error code 521

Visit cloudflare.com for more information.

2025-11-15 19:53:41 UTC



Where are the contracts?

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Ethereum has good verification culture

Ethereum
contracts are
open-sourced...



Ethereum
contracts are
open-sourced...



...through
close
source verifiers



Ethereum
contracts are
open-sourced...



...through
close
source verifiers



...and
closed
datasets



Problems

- **Open-source**
 - Largest verifier is close-source. Verification process is a **black box**.
- **Closed data**
 - EVM data is onchain and public, anyone can build a block explorer
 - Verified contracts are **offchain and siloed**, you depend on whose database it's on.
- **Centralized**
 - If it's gone, it's gone
 - □ <http://goerli.etherscan.io/address/0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D>
 - □ <https://rinkeby.etherscan.io/address/0x74FbCcEB9a11821cF7098494d887881C2f0e479a>
- **Stagnated tooling and suboptimal devX**
 - Why did the verification fail?
 - API keys
 - Lacking rich compilation data
 - sourceMaps, bytecodes, storageLayout, immutables, full std-JSON input/output



Problems

- Current players not incentivized to open-up themselves.
- Requires active pushing and raising awareness
- Not a “sexy” thing to build





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Verifier Alliance



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- Solidity side project, within EF
- Spun out w/Solidity to argot.org
- Non-profit, **no revenue**
- 3 person team



@manuelwedler



@kuzdagan



ARGOT

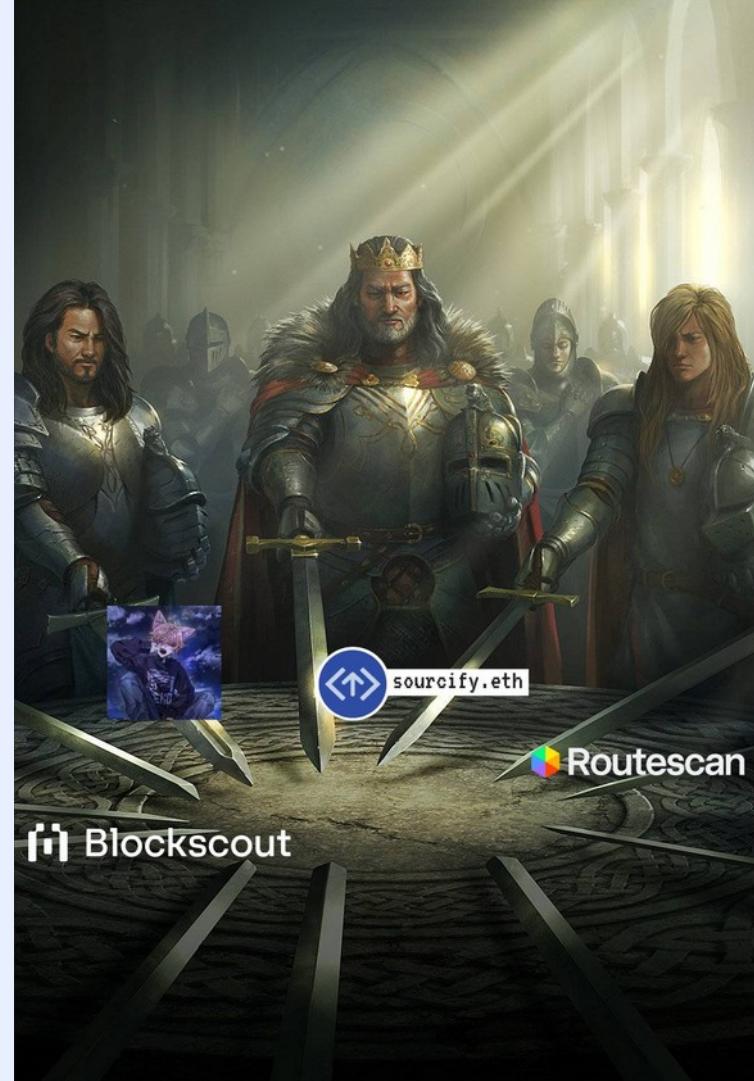


@marcocastignoli



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Verifier Alliance



Verifier Alliance

- Easy, unified, and open access to the source-code of EVM smart contracts.
- Public shared Postgres database of verified contracts.
- Exported daily in Parquet format

 Blockscout

 Routescan

 sourcify.dev



verifieralliance.org



sourcify.dev

Solutions

Solutions

- Open Source **EVERYTHING**



Solutions

- **Open Source EVERYTHING**
 - Verification logic @ethereum-sourcify/lib-sourcify



Solutions

- **Open Source EVERYTHING**
 - Verification logic @ethereum-sourcify/lib-sourcify
 - *Browser friendly*
 - Example: Local verification on **Otterscan**





Address 0x66a9893cC07D91D95644AEDD05D03f95e1dBA8Af



Overview

ERC20 Transfers

ERC721 Transfers

Token Balances

Withdrawals

Blocks Rewarded

Contract

Read Contract

Name:

UniversalRouter

Match:

Match

- 1 Fetching Sources Downloading from Sourcify (2.34s)
- 2 Compiling Contract Compiling locally in the browser (0.00s)
- 3 Verifying Contract Executing verification logic in the browser (73.11s)
- 4 Reporting Verification

Local verification result:

✓ Match

✓ runtime bytecode creation bytecode



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 - Verification logic @ethereum-sourcify/lib-sourcify
 - Sourcify server: <https://sourcify.dev/server>



Solutions

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- Verification logic @ethereum-sourcify/lib-sourcify
- Sourcify server: <https://sourcify.dev/server>
- Repository UI: <https://repo.sourcify.dev>



Solutions

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- Verification logic @ethereum-sourcify/lib-sourcify
- Sourcify server: <https://sourcify.dev/server>
- Repository UI: <https://repo.sourcify.dev>
- 4byte signature database: <https://4byte.sourcify.dev>
 - api.openchain.xyz → api.4byte.sourcify.dev



4byte.sourcify.dev

Created from Sourcify verified contracts and follows the openchain.xyz 's API. See Sourcify API docs.

Stats updated: 15 November 2025 at 23:00

Found in a Verified Contract ABI 

2.294.391 function signatures
480.282 event signatures
191.530 error signatures

Public Submissions 

4.452.805

Total Signatures

7.412.204

e.g. 'balanceOf(address)' or '0xa9059cbb'

Search

Try Some Examples

0xa9059cbb
4-byte function selector

transfer*
Wildcard text search for signatures starting with 'transfer'

Supply
Signatures containing 'Supply'

?all()
Single char wildcard - matches 'call()', 'wall0', etc.

transferFrom(address,address,uint256)
Full function signature

**0xbb757047c2b5f3974fe26b7c10f732e7bce71
0b0952a71082702781e62ae0595**
32-byte event hash

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- 4byte signature database: <https://4byte.sourcify.dev>
 - api.openchain.xyz → api.4byte.sourcify.dev
- Self hosted Sourcify instances:
 - <https://server-verify.hashscan.io>
 - <https://sourcify-api-monad.blockvision.org>
 - <https://sourcify.roninchain.com/server>
 - <https://sourcify.parsec.finance>
 - <https://verify-api.vechainstats.com>
 - <https://sourcify.walnut.dev>



Solutions

- Open Source **EVERYTHING**



Solutions

- Open Source **EVERYTHING**
- Verify **EVERWHERE**



Solutions

- **Open Source EVERYTHING**
- **Verify EVERYWHERE**
 - Sourcify backend: Verified on Sourcify → Call other verifiers
 - Etherscan limitation: Max. 250 verif./day regardless of tier



Solu

● 0

● Ve

(

Verification on other verifiers

Statuses refresh every 3 seconds.

Etherscan

Already Verified

Verification ID: hjgaylzazirwu9zwln1wujmymrhe4pfimnqr99l5ym1s2fg

Verification successful

[View on explorer](#) 

Routescan

NOTOK

Verification ID: 34c7a9bf-5e71-5dfa-97d5-c8313ad62b5d

Verification successful

[View on explorer](#) 

Blockscout

Pass - Verified

Verification ID: 291884f184027d195d62627862f75337986fe27369146267

Verification successful

[View on explorer](#) 



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 - Remix Plugin



CONTRACT VERIFICATION

Verify Receipts Lookup Settings

Verify compiled contracts on different verification services

Chain

Ethereum Mainnet (1)

Contract Address

0x2738d13E81e...

Contract Name

Storage - contracts/1_Storage.sol

The deployed contract is behind a proxy

Verify on:

- Sourcify
<https://sourcify.dev/server>
- Etherscan
<https://api.etherscan.io/v2>
- Blockscout
<https://eth.blockscout.com>
- Routescan
<https://api.routescan.io/v2/network/mainnet>

Verify

Compiled

Home

1_Software.sol

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity >=0.8.2 <0.9.0;

/**
 * @title Storage
 * @dev Store & retrieve value in a variable
 * @custom:dev-run-script ./scripts/deploy_with_ETHERS.ts
 */
contract Storage {
    uint256 number;

    /**
     * @dev Store value in variable
     * @param num value to store
     */
    function store(uint256 num) public {
        number = num;
    }

    /**
     * @dev Return value
     * @return value of 'number'
     */
    function retrieve() public view returns (uint256) {
        return number;
    }
}
```

Explain contract

0 Listen on all transactions Filter with transaction hash or address

wep3.js
ethers.js

Type the library name to see available commands.

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 - Hardhat v3
 - Foundry (TBD)



Solutions

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- Verify **EVERWHERE**



Solutions

- Open Source **EVERYTHING**
- Verify **EVERYWHERE**
- Open data



Solutions

- **Open Source EVERYTHING**
- **Verify EVERYWHERE**
- **Open data**
 - Share whole dataset daily in Parquet format: export.sourcify.dev & export.verifieralliance.org



10.131.157

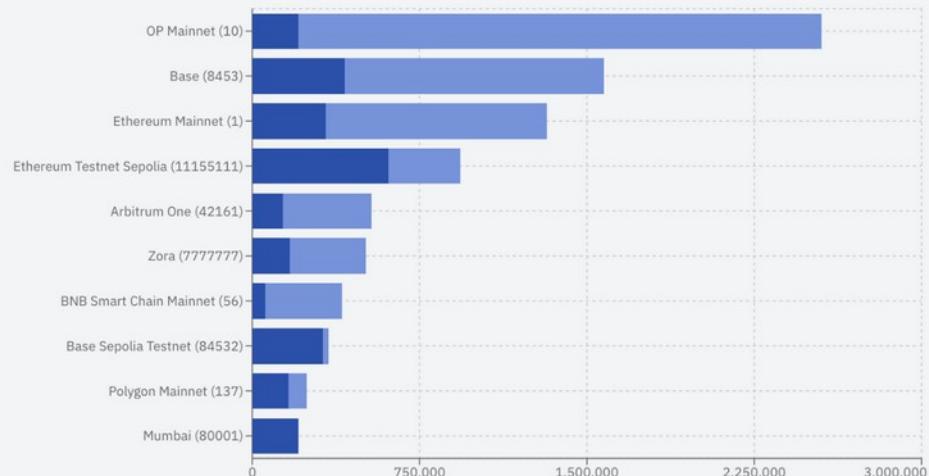
contracts verified

 Download

all verified contracts

1.321.008 contracts on Ethereum Mainnet (1) ▾

Exact Matches Matches



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- **Open Source EVERYTHING**
- **Verify EVERYWHERE**
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 - BigQuery and Google Colab (Jupyter) Notebook



Screenshot of the BigQuery UI showing the sourcify dataset in the sourcify-project project. The dataset contains 10 tables:

Table ID	Type	Create time	Expiry time	Label
public_code	Table	11 September 2025	None	None
public_compiled_contracts	Table	11 September 2025	None	None
public_compiled_contracts_signatures	Table	18 September 2025	None	None
public_compiled_contracts_sources	Table	11 September 2025	None	None
public_contract_deployments	Table	11 September 2025	None	None
public_contracts	Table	11 September 2025	None	None
public_signatures	Table	18 September 2025	None	None
public_sources	Table	11 September 2025	None	None
public_sourcify_matches	Table	11 September 2025	None	None
public_verified_contacts	Table	11 September 2025	None	None



Commands

Code

Text

Run all

Copy to Drive



Distribution of verified contracts across chainIds

```
[ ] ⏪ sql = """  
-- StandardSQL  
SELECT  
    cd.chain_id,  
    COUNT(*) AS verified_count  
FROM `sourcify-project.sourcify.public_verified_contracts` AS vc  
JOIN `sourcify-project.sourcify.public_contract_deployments` AS cd  
    ON vc.deployment_id = cd.id  
GROUP BY cd.chain_id  
ORDER BY verified_count DESC  
"""  
  
df_chain_stats = run(sql)  
df_chain_stats
```

	chain_id	verified_count
0	10	2490831
1	8453	1367680
2	1	1291444
3	11155111	843612
4	42161	539653
...
202	383414847825	1
203	2021	1
204	103090	1
205	7078815900	1
206	957	1

207 rows × 2 columns

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 - AI Playground



Dataset Playground

Write a SQL query and execute it against the Sourcify dataset in BigQuery.

↔ AI query generator

Examples:

Give me contracts with Solidity version 0.4.26

Give me deployments of GnosisSafeProxy on Base

Which contract is the most popular contract?

Which contract is the most popular contract by contract name?



tngtech/deepseek-r1t2-chimera:free

Valid

OpenRouter key

.....

Using your OpenRouter key, all models supported

GENERATE SQL



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SQL Editor Playground with limits. For full capabilities, query the dataset on [BigQuery](#) or open the [Colab notebook](#).

EXECUTE

```
1 SELECT
2   cc.name AS contract_name,
3   COUNT(*) AS deployment_count
4 FROM
5   sourcify.public_verified_contracts vc
6 JOIN
7   sourcify.public_compiled_contracts cc ON vc.compilation_id = cc.id
8 JOIN
9   sourcify.public_contract_deployments cd ON vc.deployment_id = cd.id
10 GROUP BY
```

Results

Rows: 1 Show: 10 per page

Showing 1-1 of 1 Previous Next

contract_name	deployment_count
GnosisSafeProxy	2668524



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SQL Editor Playground with limits. For full capabilities, query the dataset on [BigQuery](#) or open the [Colab notebook](#).

EXECUTE

```
1 SELECT
2   cc.name AS contract_name,
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4 FROM
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6 JOIN
7   sourcify.public_compiled_contracts cc ON vc.compilation_id = cc.id
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9   sourcify.public_contract_deployments cd ON vc.deployment_id = cd.id
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contract_name	deployment_count
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Solutions

- **Open Source EVERYTHING**
- **Verify EVERYWHERE**
- **Open data**
 - EVM Tooling testing in bulk
 - Data analysis
 - Feed an AI model
 - Build better decompiler
 - Find vulnerability patterns
 - **Use this valuable dataset to move EVM tooling forward!**





Where are the contracts?



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Thank you



<https://x.com/sourcifyeth>



<https://x.com/verifalliance>

Matrix: @kuzdogan:matrix.org
Telegram: @kuzdogan



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What is source code verification?

What is source code verification?

- Ethereum contracts are stored on the blockchain in **bytecode**



What is source code verification?

- Ethereum contracts are stored on the blockchain in **bytecode**

What is source code verification?

- Ethereum contracts are stored on the blockchain in **bytecode**

What does it do?

What is source code verification?

- Ethereum contracts are stored on the blockchain in **bytecode**

Beacon Chain Deposit Contract

0x00000000219ab540356cBB839Cbe05303d7705Fa

Beacon Chain Deposit Contract

0x0000000219ab540356cBB839Cbe05303d7705Fa

What is source code verification?

- Ethereum contracts are stored on the blockchain in **bytecode**



What is source code verification?

- Ethereum contracts are stored on the blockchain in **bytecode**
- Humans can't read/write bytecode

What is source code verification?

- Ethereum contracts are stored on the blockchain in **bytecode**
- Humans can't read/write bytecode
- Humans read/write in prog. languages (Solidity, Vyper...)



```
64 contract DepositContract is IDepositContract, ERC165 {
65     uint constant DEPOSIT_CONTRACT_TREE_DEPTH = 32;
66     // NOTE: this also ensures `deposit_count` will fit into 64-bits
67     uint constant MAX_DEPOSIT_COUNT = 2**DEPOSIT_CONTRACT_TREE_DEPTH - 1;
68
69     bytes32[DEPOSIT_CONTRACT_TREE_DEPTH] branch;
70     uint256 deposit_count;
71
72     bytes32[DEPOSIT_CONTRACT_TREE_DEPTH] zero_hashes;
73
74     constructor() public {
75         // Compute hashes in empty sparse Merkle tree
76         for (uint height = 0; height < DEPOSIT_CONTRACT_TREE_DEPTH - 1; height++)
77             zero_hashes[height + 1] = sha256(abi.encodePacked(zero_hashes[height], zero_hashes
78                                         [height]));
79     }
80
81     function get_deposit_root() override external view returns (bytes32) {
82         bytes32 node;
83         uint size = deposit_count;
84         for (uint height = 0; height < DEPOSIT_CONTRACT_TREE_DEPTH; height++) {
85             if ((size & 1) == 1)
86                 node = sha256(abi.encodePacked(branch[height], node));
87             else
88                 node = sha256(abi.encodePacked(node, zero_hashes[height]));
89             size /= 2;
90         }
91         return sha256(abi.encodePacked(
92             zero_hashes[0], node));
93     }
94 }
```



```
64 contract DepositContract is IDepositContract, ERC165 {
65     uint constant DEPOSIT_CONTRACT_TREE_DEPTH = 32;
66     // NOTE: this also ensures `deposit_count` will fit into 64-bits
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68
69     bytes32[DEPOSIT_CONTRACT_TREE_DEPTH] branch;
70     uint256 deposit_count;
71
72     bytes32[DEPOSIT_CONTRACT_TREE_DEPTH] zero_hashes;
73
74     constructor() public {
75         // Compute hashes in empty state
76         for (uint height = 0; height < DEPOSIT_CONTRACT_TREE_DEPTH; height++) {
77             zero_hashes[height] = sha256(abi.encodePacked(height));
78         }
79     }
80
81     function get_deposit_root() override external view returns (bytes32) {
82         bytes32 node;
83         uint size = deposit_count;
84         for (uint height = 0; height < DEPOSIT_CONTRACT_TREE_DEPTH; height++) {
85             if ((size & 1) == 1)
86                 node = sha256(abi.encodePacked(branch[height], node));
87             else
88                 node = sha256(abi.encodePacked(node, zero_hashes[height]));
89             size /= 2;
90         }
91         return sha256(abi.encodePacked(
92             node,
93             sha256(abi.encodePacked(zero_hashes[0], zero_hashes[1])),
94             sha256(abi.encodePacked(zero_hashes[2], zero_hashes[3])),
95             sha256(abi.encodePacked(zero_hashes[4], zero_hashes[5])),
96             sha256(abi.encodePacked(zero_hashes[6], zero_hashes[7])),
97             sha256(abi.encodePacked(zero_hashes[8], zero_hashes[9])),
98             sha256(abi.encodePacked(zero_hashes[10], zero_hashes[11])),
99             sha256(abi.encodePacked(zero_hashes[12], zero_hashes[13])),
100            zero_hashes[14],
101            zero_hashes[15],
102            zero_hashes[16],
103            zero_hashes[17],
104            zero_hashes[18],
105            zero_hashes[19],
106            zero_hashes[20],
107            zero_hashes[21],
108            zero_hashes[22],
109            zero_hashes[23],
110            zero_hashes[24],
111            zero_hashes[25],
112            zero_hashes[26],
113            zero_hashes[27],
114            zero_hashes[28],
115            zero_hashes[29],
116            zero_hashes[30],
117            zero_hashes[31]
118        ));
119    }
120}
```



height++),
height], zero_hashes



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What is source code verification?

- Ethereum contracts are stored on the blockchain in **bytecode**
- Humans can't read/write bytecode
- Humans read/write in prog. languages (Solidity, Vyper...)
- Source code → Bytecode



Source Code Verification

□ MyContract.sol

□ Ownable.sol

□ ERC20.sol

...

Source Code Verification

□ MyContract.sol

□ Ownable.sol

□ ERC20.sol

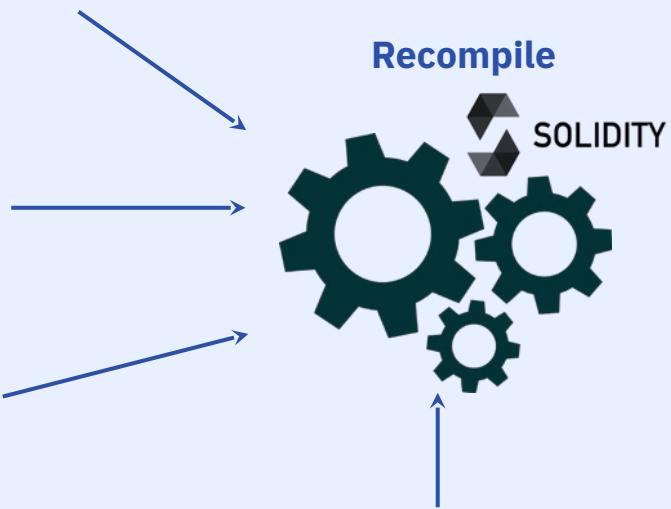
...

Compilation Settings

```
version: "0.8.7+commit.e28d00a7",
optimizer: {
  enabled: true,
  runs: 200
},
...
```

Source Code Verification

□ MyContract.sol



□ Ownable.sol

□ ERC20.sol

...

Compilation Settings

```
... version: "0.8.7+commit.e28d00a7",
  optimizer: {
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```

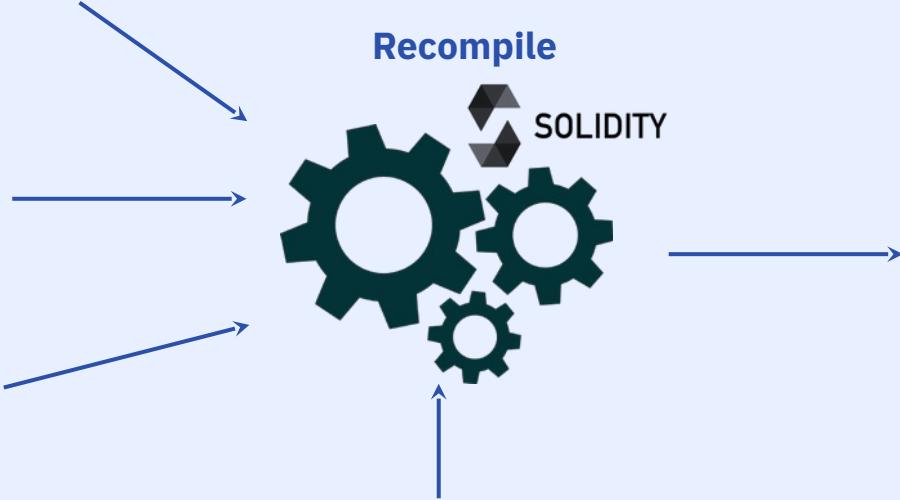
Source Code Verification

MyContract.sol

Ownable.sol

ERC20.sol

...



bytecode

```
0x60806040526004361062  
00010b5760003560e01c80  
6379ba5097116200009b57  
8063add50991162000069  
578063add509914620002  
d1578063d0e30db0146200  
0113578063d4ee1d901462  
000305578063dce0b4e414  
62000327578063f2...
```

```
... version: "0.8.7+commit.e28d00a7",  
optimizer: {  
  enabled: true,  
  runs: 200  
},  
...
```

Source Code Verification



bytecode

```
0x60806040526004361062  
00010b5760003560e01c80  
6379ba5097116200009b57  
8063add50991162000069  
578063add509914620002  
d1578063d0e30db0146200  
0113578063d4ee1d901462  
000305578063dce0b4e414  
62000327578063f2...
```

Settings

```
nit.e28d00a7",
```



Source Code Verification



bytecode

```
0x60806040526004361062  
00010b5760003560e01c80  
6379ba5097116200009b57  
8063add50991162000069  
578063add509914620002  
d1578063d0e30db0146200  
0113578063d4ee1d901462  
000305578063dce0b4e414  
62000327578063f2...
```

```
eth_getCode("0x011fDBf...64cc90BB26D0C")
```

Settings



Source Code Verification



bytecode

```
0x60806040526004361062  
00010b5760003560e01c80  
6379ba5097116200009b57  
8063add50991162000069  
578063add509914620002  
d1578063d0e30db0146200  
0113578063d4ee1d901462  
000305578063dce0b4e414  
62000327578063f2...
```

Settings

nit.e28d00a7",



eth_getCode("0x011fDBf...64cc90BB26D0C")



```
0x60806040526004361062  
00010b5760003560e01c80  
6379ba5097116200009b57  
8063add50991162000069  
578063add509914620002  
d1578063d0e30db0146200  
0113578063d4ee1d901462  
000305578063dce0b4e414  
62000327578063f2...
```

Source Code Verification



Settings

```
    init.e28d00a7",
```

bytecode

```
0x60806040526004361062  
00010b5760003560e01c80  
6379ba5097116200009b57  
8063add50991162000069  
578063add509914620002  
d1578063d0e30db0146200  
0113578063d4ee1d901462  
000305578063dce0b4e414  
62000327578063f2...
```



eth_getCode("0x011fDBf...64cc90BB26D0C")



match?

```
0x60806040526004361062  
00010b5760003560e01c80  
6379ba5097116200009b57  
8063add50991162000069  
578063add509914620002  
d1578063d0e30db0146200  
0113578063d4ee1d901462  
000305578063dce0b4e414  
62000327578063f2...
```

Ethereum has good verification culture

- Community demands contracts to be verified



Ethereum has good verification culture

- Community demands contracts to be verified
- **DO NOT INTERACT WITH UNVERIFIED CONTRACTS**
 - It's basically arbitrary black box code

