

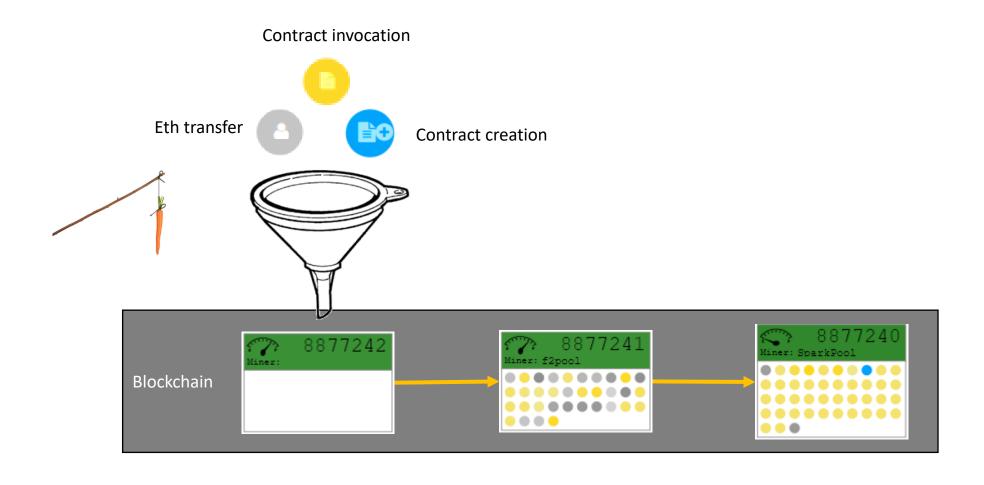
Dapps for beginners

Sheets

https://web3examples.com/dapps_sheets/Dapps.pdf

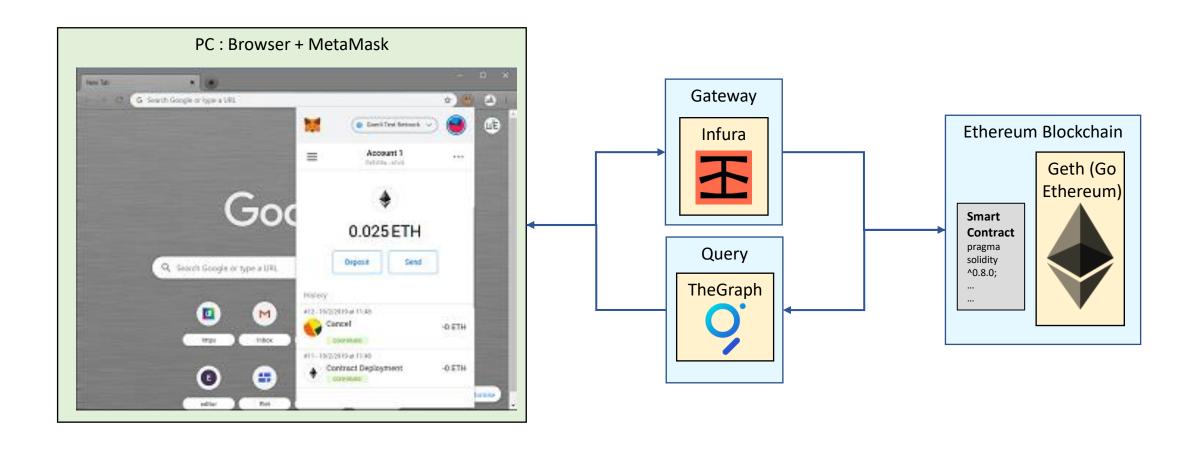


Principle of a blockchain



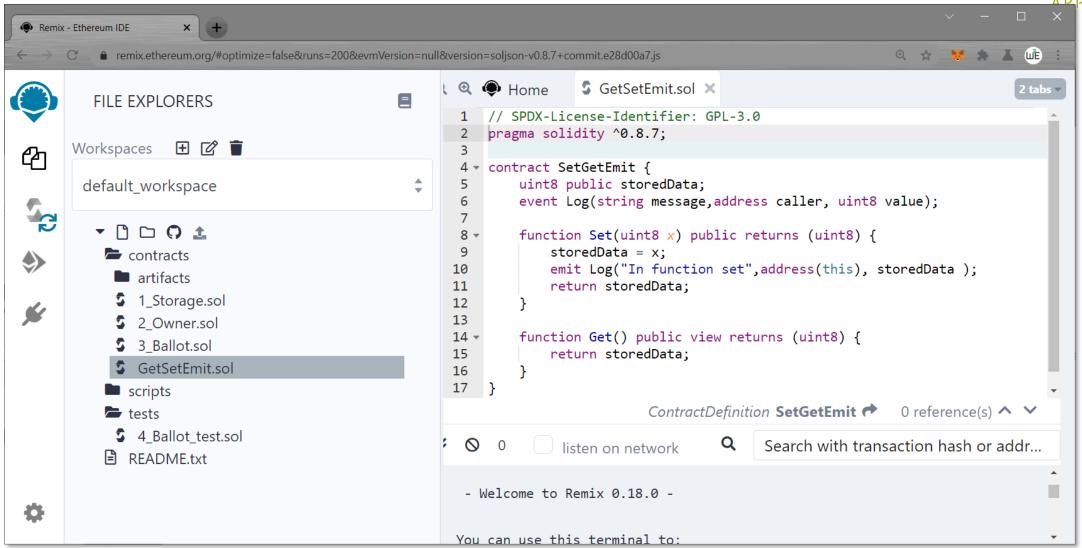
DAPP architecture (Ethereum like chains)





Remix

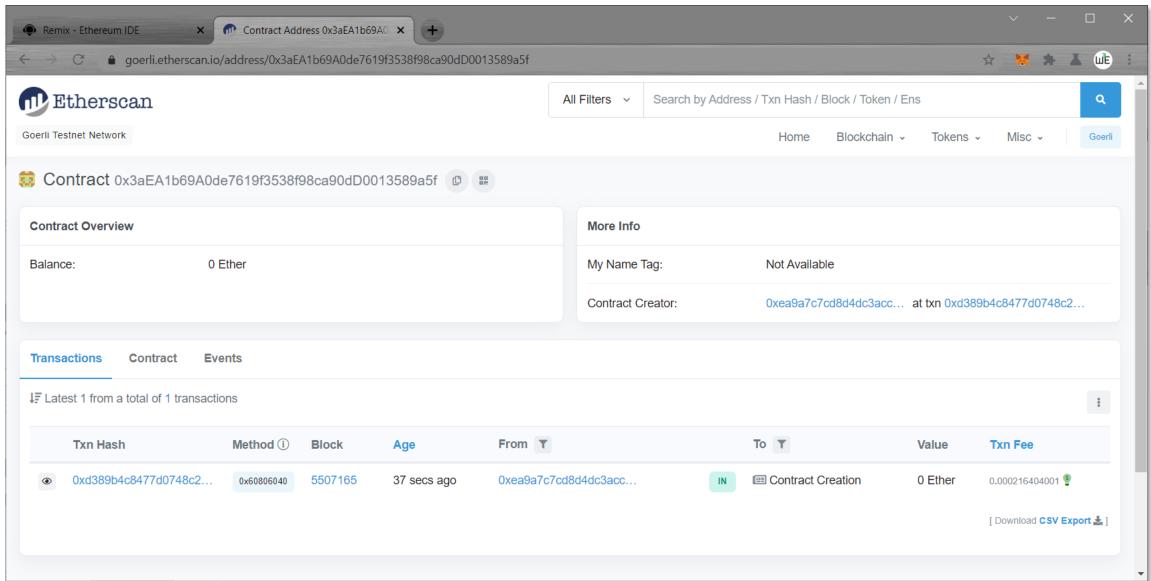




https://remix.ethereum.org

Etherscan





GetSetEmit website source

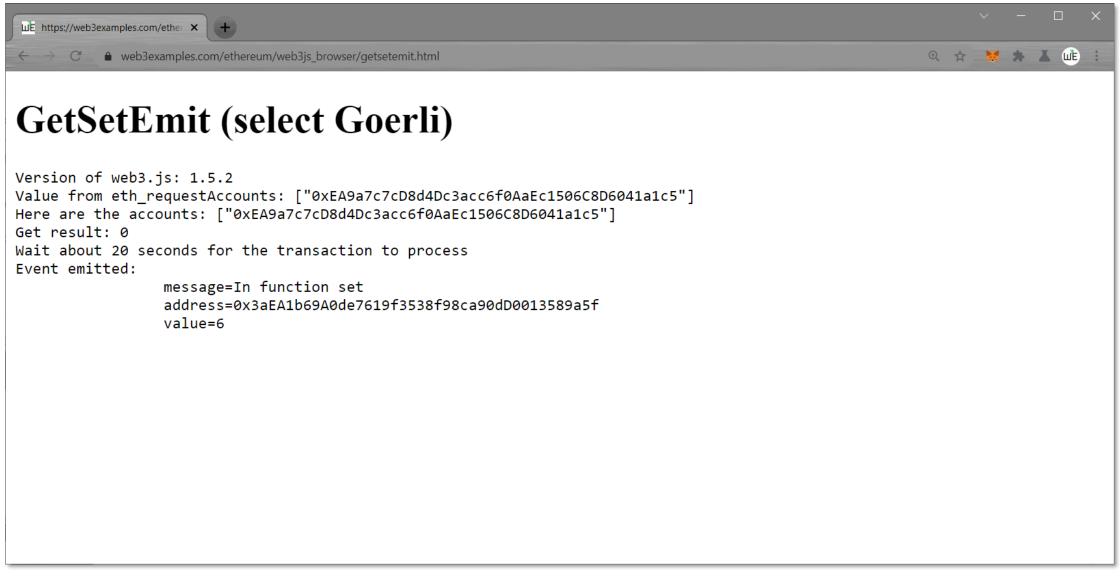
```
<!-- https://github.com/web3examples/ethereum/blob/master/solidity examples/GetSetEmit.sol -->
          <!DOCTYPE html>
   id · · · · <head>
                         </meta-name="viewport".content="width=device-width,.initial-scale=1.0">
             -----<script-src="https://unpkg.com/web3@latest/dist/web3.min.js"></script>
             ···</head>
        id · · · · <body>
            ....<h1>GetSetEmit (select Goerli)</h1>
            ·····id="log" style="width:100%;height:200px">
             ....<script.type="text/javascript">
                         function log(logstr) {
            ....document.getElementById("log").innerHTML +=logstr+"\n";
 14
           .....const.GetSetEmitABI=.[
 16 \pm \cdots \cdots \cdots \cdot \c
        tinction Get() public view returns (uint8)
        tint8) ### function Set (uint8 x) public returns (uint8)
        92
                          async function f() {
            ····//·Prepare
                          web3 = new Web3 (Web3.qivenProvider); // provider from metamask
 96
                         log(`Version of web3.js: ${web3.version}`);
 97
                         var result=await web3.eth.requestAccounts().catch(x=>log(x.message));
 98
                          log(`Value from eth requestAccounts: ${JSON.stringify(result)}`);
                                var acts=await web3.eth.getAccounts().catch(log);
 99
            ....log(`Here are the accounts: ${JSON.stringify(acts)}`);
                          ····//·Connect·contract
102
                                 var GetSetEmitAddress="0x3aEA1b69A0de7619f3538f98ca90dD0013589a5f"; // Goerli address
                                var GetSetEmitContract=new web3.eth.Contract(GetSetEmitABI, GetSetEmitAddress);
104
105
                                 result = await GetSetEmitContract.methods.Get().call({from: acts[0]}).catch(console.log);
106
            ····log(`Get result: ${result}`);
107
                           · · · log(`Wait about 20 seconds for the transaction to process`);
109
            result = await GetSetEmitContract.methods.Set(6).send({from: acts[0]}).catch(console.log);
110
111
                                 var decoded=result.events.Log.returnValues;
112
                                log(`Event emitted: message=${decoded.message} address=${decoded.caller} value=${decoded.value}`);
113
114
                         window.addEventListener('DOMContentLoaded', f);
115
          -····</script>
          -····</body>
117 L</html>
```



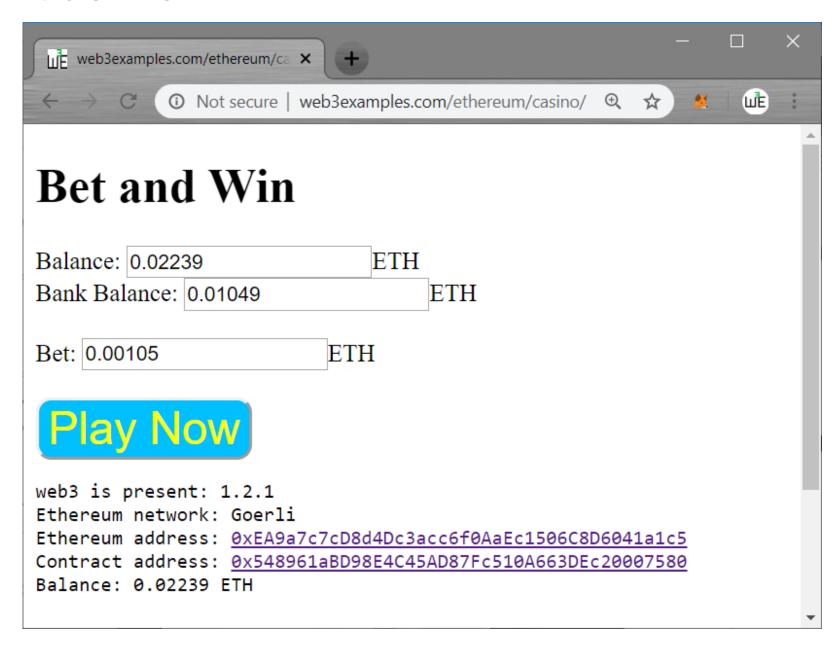
https://github.com/web3examples/ethereum/blob/master/web3js browser/getsetemit.html

GetSetEmit website





Casino





https://web3examples.com/ethereum/casino





```
pragma solidity >=0.5.0 <0.7.0;
contract Casino {
    event Won(bool win) ;
    constructor() public payable { }
    function betAndWin() public payable {
        address payable betPlacer = address(msg.sender);
       uint bet = msg.value;
       uint payout = bet * 2;
        uint balance = getBankBalance();
        require(bet > 0, "No money added to bet.");
        require(payout <= balance, "Not enough money in bank for this bet.");
        bool win = bool (getRandom()%2 == 0);
       if (win)
            betPlacer.transfer(payout);
        emit Won(win);
    function getBankBalance() public view returns(uint256 ret) {
        return address(this).balance;
    function getRandom() public view returns(uint256) {
        return uint256(keccak256(abi.encodePacked(block.difficulty, block.coinbase, block.timestamp)));
```

More info



https://web3examples.com