# TUTORIEL TITRE

ETAPES



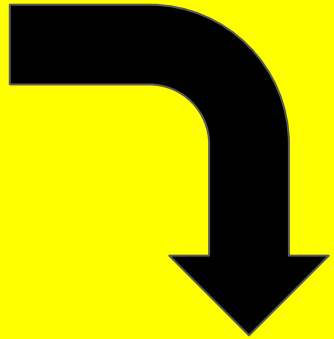
# PROBLEME & SOLUTIONS

[11045:1119/162327.121328:FATAL:setuid_sandbox_host.cc(158)] The SUID sandbox helper binary was found, but is not configured correctly. Rather than run without sandboxing I'm aborting now. You need to make sure that /home/moi/DEMO/bestiaire/node_modules/electron/dist/chrome-sandbox is owned by root and has mode 4755.

**package.json :**

```
{
  "scripts": {
    "start": "ELECTRON_DISABLE_SANDBOX=1 electron ."
  }
}
```

**OU**



```
sudo chown root:root~/DEMO/dapp/node_modules/electron/dist/chrome-sandbox
sudo chmod 4755 ~/DEMO/dapp/node_modules/electron/dist/chrome-sandbox
```

# main.js qui affiche la console

```
function creerFenetre() {
    fenetrePrincipale = new BrowserWindow({
        width: 900,
        height: 700,
        webPreferences: {
            preload: path.join(__dirname, 'preload.js'),
            contextIsolation: true,
            nodeIntegration: false
        }
    })
    fenetrePrincipale.loadFile('index.html')
    fenetrePrincipale.webContents.openDevTools(); // Ctrl Shift I
}
```

# TUTORIEL TITRE

ETAPES



# Contrat Solana minimal

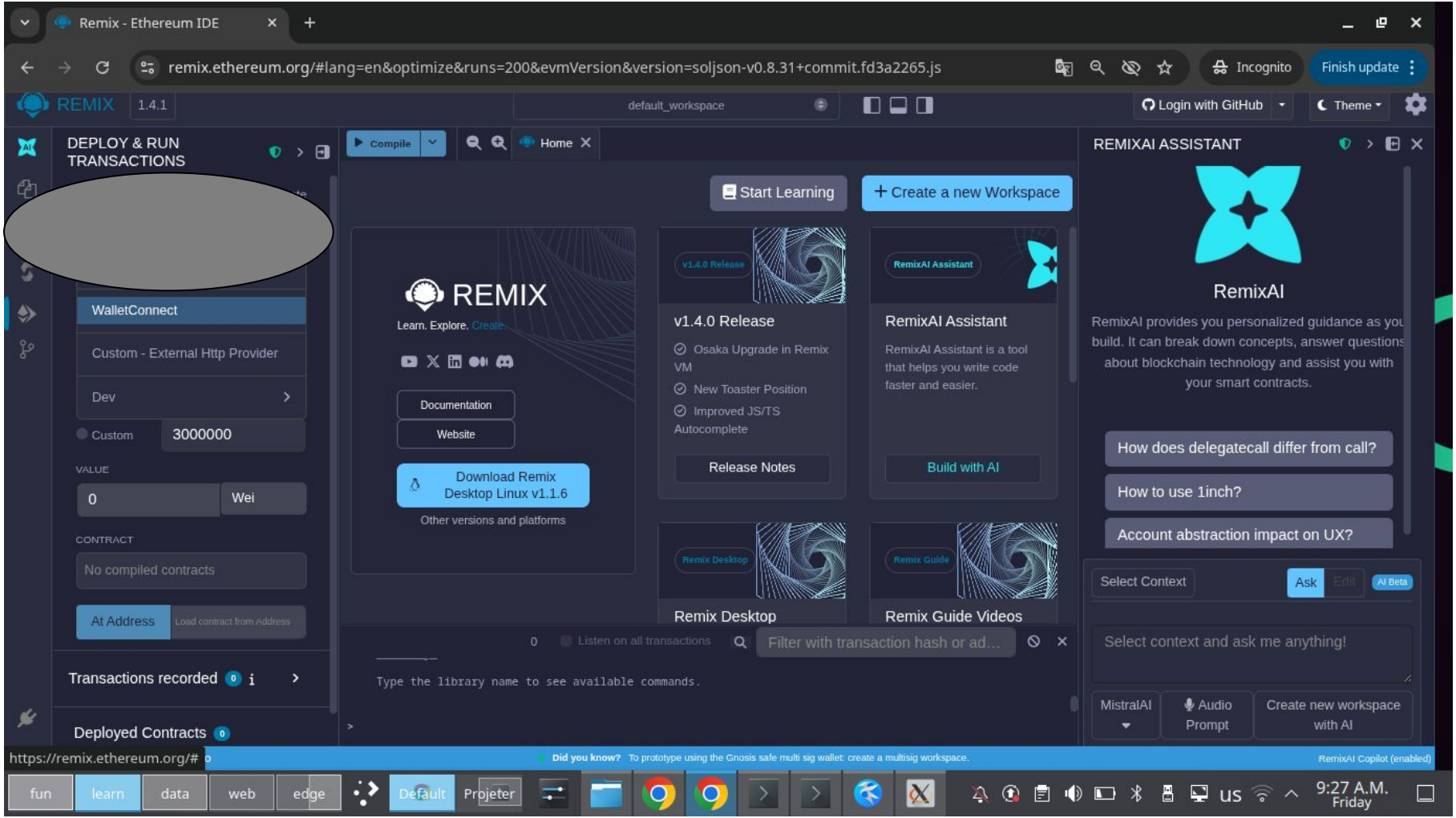
```
// SPDX-License-Identifier: MIT
// Compatible with OpenZeppelin Contracts ^5.4.0
pragma solidity ^0.8.27;
import {ERC20} from "@openzeppelin/contracts/token/ERC20/ERC20.sol";

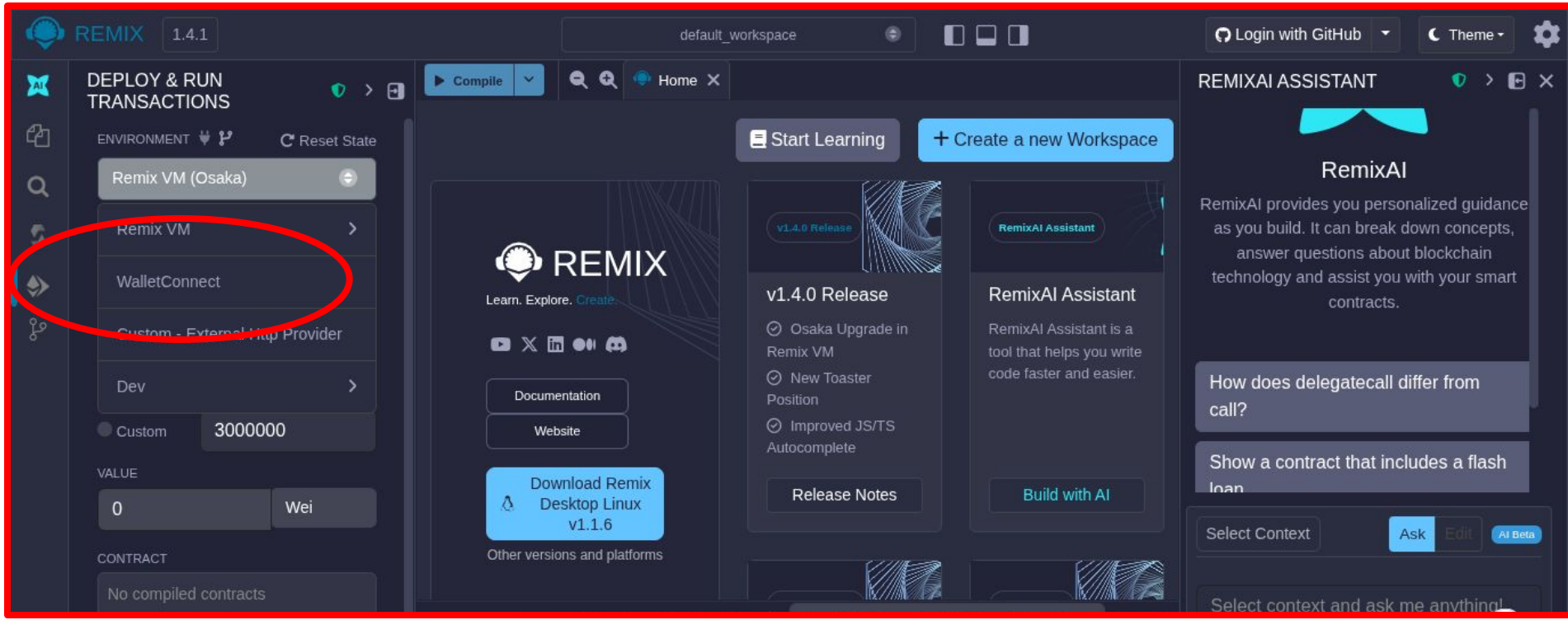
contract Portfolio is ERC20 {
    constructor() ERC20("Portfolio", "MTK") {}

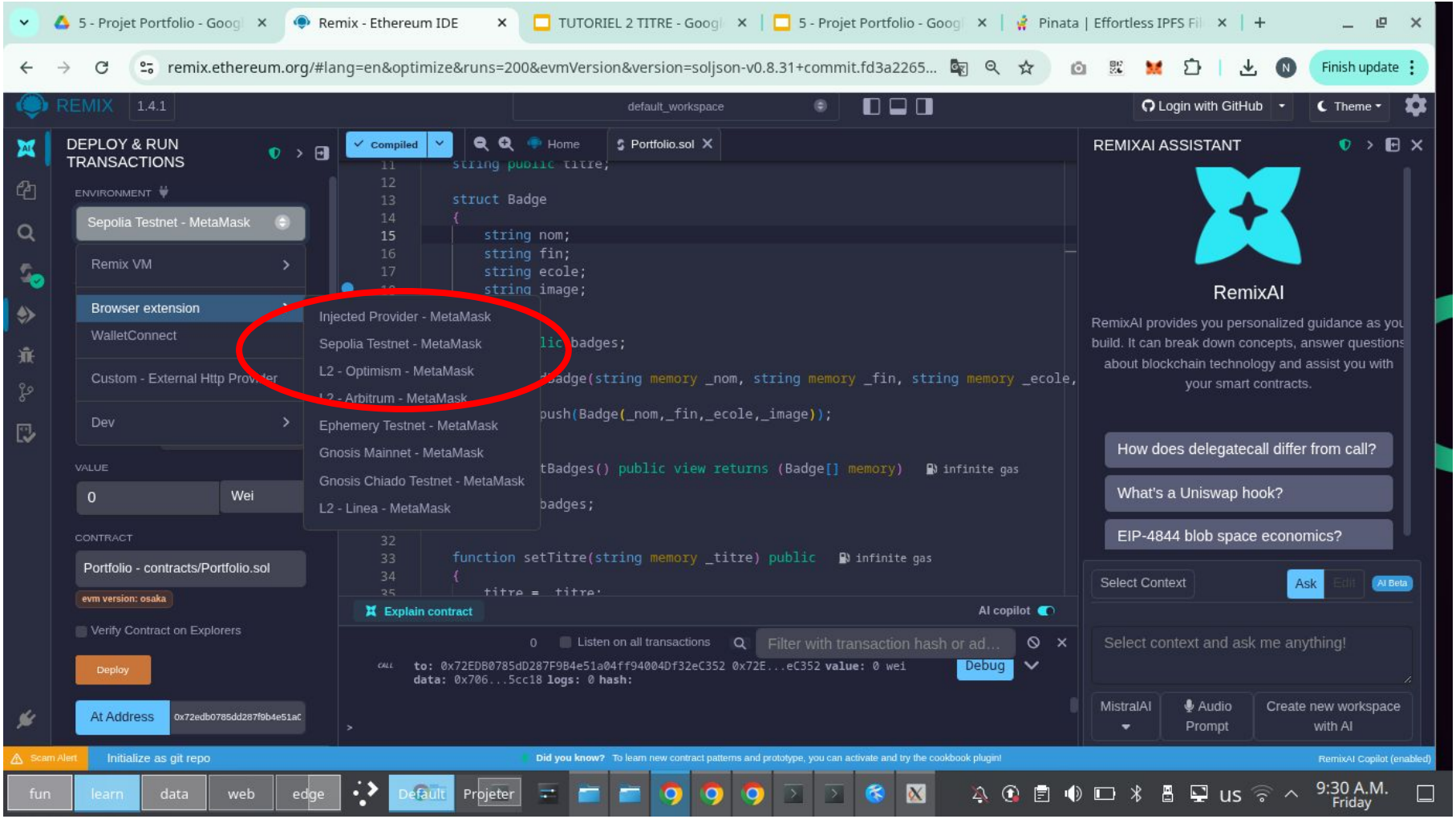
    string public titre;
    function setTitre(string memory _titre) public
    {
        titre = _titre;
    }
    function getTitre() public view returns (string memory)
    {
        return titre;
    }
}
```

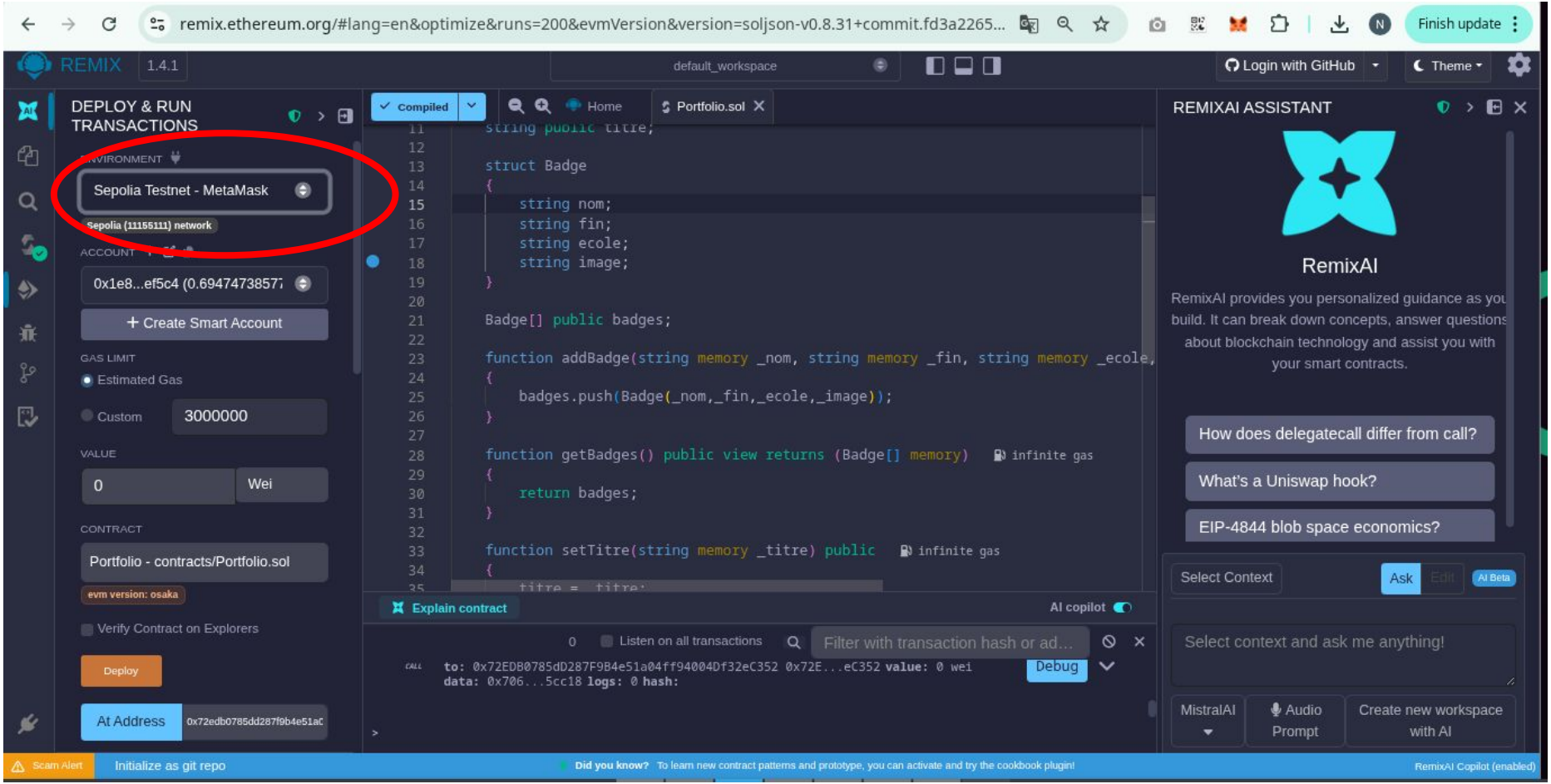
# Étapes pour déployer le contrat sur TestNET

https://remix.ethereum.org/
Compiler le contrat Portfolio.sol
Connecter la wallet Metamask
Sélectionner Sepolia
ReCompiler le contrat Portfolio.sol
Déployer le contrat (vérifier qu'on est encore sur Sepolia)
Noter l'adresse du contrat
Appeler setTitre dans Remix, verifier avec getTitre
On est prêt pour la programmation avec javascript


Remix - Ethereum IDE
remix.ethereum.org/#lang=en&optimize&runs=200&evmVersion&version=soljson-v0.8.31+commit.fd3a2265.js
Incognito
Finish update
REMIX 1.4.1
default_workspace
Login with GitHub
Theme
DEPLOY & RUN TRANSACTIONS
WalletConnect
Custom - External Http Provider
Dev
Custom
3000000
VALUE
0
Wei
CONTRACT
No compiled contracts
At Address
Load contract from Address
Transactions recorded 0
Deployed Contracts 0
Compile
Home
Start Learning
Create a new Workspace
REMIX
Learn. Explore. Create.
Documentation
Website
Download Remix Desktop Linux v1.1.6
Other versions and platforms
v1.4.0 Release
v1.4.0 Release
Osaka Upgrade in Remix VM
New Toaster Position
Improved JS/TS Autocomplete
Release Notes
RemixAI Assistant
RemixAI Assistant
RemixAI Assistant is a tool that helps you write code faster and easier.
Build with AI
Remix Desktop
Remix Guide
Remix Guide Videos
Listen on all transactions
Filter with transaction hash or ad...
Type the library name to see available commands.
REMIXAI ASSISTANT
RemixAI
RemixAI provides you personalized guidance as you build. It can break down concepts, answer questions about blockchain technology and assist you with your smart contracts.
How does delegatecall differ from call?
How to use 1inch?
Account abstraction impact on UX?
Select Context
Ask
Edit
AI Beta
Select context and ask me anything!
MistralAI
Audio Prompt
Create new workspace with AI
https://remix.ethereum.org/#
Did you know? To prototype using the Gnosis safe multi sig wallet: create a multisig workspace.
RemixAI Copilot (enabled)
fun
learn
data
web
edge
Default
Projeter
us
9:27 A.M.
Friday


REMIX
1.4.1
default_workspace
Login with GitHub
Theme
DEPLOY & RUN TRANSACTIONS
ENVIRONMENT
Reset State
Remix VM (Osaka)
Remix VM
WalletConnect
Custom - External Http Provider
Dev
Custom
3000000
VALUE
0
Wei
CONTRACT
No compiled contracts
Compile
Home
Start Learning
Create a new Workspace
REMIX
Learn. Explore. Create.
Documentation
Website
Download Remix Desktop Linux v1.1.6
Other versions and platforms
v1.4.0 Release
v1.4.0 Release
Osaka Upgrade in Remix VM
New Toaster Position
Improved JS/TS Autocomplete
Release Notes
RemixAI Assistant
RemixAI Assistant
RemixAI Assistant is a tool that helps you write code faster and easier.
Build with AI
REMIXAI ASSISTANT
RemixAI
RemixAI provides you personalized guidance as you build. It can break down concepts, answer questions about blockchain technology and assist you with your smart contracts.
How does delegatecall differ from call?
Show a contract that includes a flash loan
Select Context
Ask
Edit
AI Beta
Select context and ask me anything!


5 - Projet Portfolio - Goog
Remix - Ethereum IDE
TUTORIEL 2 TITRE - Goog
5 - Projet Portfolio - Goog
Pinata | Effortless IPFS Fil
remix.ethereum.org/#lang=en&optimize&runs=200&evmVersion&version=soljson-v0.8.31+commit.fd3a2265...
Finish update
REMIX 1.4.1
default_workspace
Login with GitHub
Theme
DEPLOY & RUN TRANSACTIONS
ENVIRONMENT
Sepolia Testnet - MetaMask
Remix VM
Browser extension
WalletConnect
Custom - External Http Provider
Dev
Injected Provider - MetaMask
Sepolia Testnet - MetaMask
L2 - Optimism - MetaMask
L2 - Arbitrum - MetaMask
Ephemery Testnet - MetaMask
Gnosis Mainnet - MetaMask
Gnosis Chiado Testnet - MetaMask
L2 - Linea - MetaMask
VALUE
0
Wei
CONTRACT
Portfolio - contracts/Portfolio.sol
evm version: osaka
Verify Contract on Explorers
Deploy
At Address
0x72edb0785dd287f9b4e51aC
Compiled
Home
Portfolio.sol
string public titre;
struct Badge
{
string nom;
string fin;
string ecole;
string image;
lic badges;
Badge(string memory _nom, string memory _fin, string memory _ecole,
push(Badge(_nom,_fin,_ecole,_image));
tBadges() public view returns (Badge[] memory) infinite gas
badges;
function setTitre(string memory _titre) public infinite gas
titre = _titre;
Explain contract
AI copilot
Listen on all transactions
Filter with transaction hash or ad...
Debug
REMIXAI ASSISTANT
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How does delegatecall differ from call?
What's a Uniswap hook?
EIP-4844 blob space economics?
Select Context
Ask
Edit
AI Beta
Select context and ask me anything!
MistralAI
Audio Prompt
Create new workspace with AI
Scam Alert
Initialize as git repo
Did you know? To learn new contract patterns and prototype, you can activate and try the cookbook plugin!
RemixAI Copilot (enabled)
fun
learn
data
web
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Default
Projeter
us
9:30 A.M.
Friday


remix.ethereum.org/#lang=en&optimize&runs=200&evmVersion&version=soljson-v0.8.31+commit.fd3a2265...
Finish update
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default_workspace
Login with GitHub
Theme
DEPLOY & RUN TRANSACTIONS
ENVIRONMENT
Sepolia Testnet - MetaMask
Sepolia (11155111) network
ACCOUNT
0x1e8...ef5c4 (0.69474738577
+ Create Smart Account
GAS LIMIT
Estimated Gas
Custom
3000000
VALUE
0
Wei
CONTRACT
Portfolio - contracts/Portfolio.sol
evm version: osaka
Verify Contract on Explorers
Deploy
At Address
0x72edb0785dd287f9b4e51aC
Compiled
Home
Portfolio.sol
string public titre;
struct Badge
{
string nom;
string fin;
string ecole;
string image;
}
Badge[] public badges;
function addBadge(string memory _nom, string memory _fin, string memory _ecole,
{
badges.push(Badge(_nom,_fin,_ecole,_image));
}
function getBadges() public view returns (Badge[] memory)
infinite gas
{
return badges;
}
function setTitre(string memory _titre) public
infinite gas
{
titre = _titre;
Explain contract
AI copilot
0
Listen on all transactions
Filter with transaction hash or ad...
CALL
to: 0x72EDB0785dD287F9B4e51a04ff94004Df32eC352 0x72E...eC352 value: 0 wei
data: 0x706...5cc18 logs: 0 hash:
Debug
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Initialize as git repo
Did you know? To learn new contract patterns and prototype, you can activate and try the cookbook plugin!
RemixAI Copilot (enabled)

# Accesseur.js pour se connecter

Faire un
npm install ethers

```
const { ethers } = require("ethers");
const CONFIG = require("./config.js");

class Accesseur {
    constructor() {
        this.fournisseur = new ethers.JsonRpcProvider(CONFIG.SEPOLIA_RPC_URL);
        this.portefeuille = new ethers.Wallet(CONFIG.PRIVATE_KEY, this.fournisseur);
        this.contrat = new ethers.Contract(CONFIG.CONTRACT_ADDRESS, CONTRACT_ABI, this.portefeuille);
    }
```

# Pont du HTML vers accesseur.js

```
document.addEventListener('DOMContentLoaded', async () => {
    let titre = await window.api.lireTitre();
    console.log(titre);
    document.getElementById('sous-titre').textContent = titre;
});
```

```
// preload.js
contextBridge.exposeInMainWorld('api', {
    lireTitre: () => ipcRenderer.invoke('titre:lire')
})
```

```
// main.js
ipcMain.handle('titre:lire', async () => {
    return await accesseur.getTitre()
})
```

```
class Accesseur {
    constructor() {
    }
    async getTitre() {
    }
```

# Accesseur.js pour lire le titre

```
const CONTRACT_ABI = [
    "function getTitre() view returns (string)"
];
```

```
class Accesseur {
    async getTitre() {
            const titre = await this.contrat.getTitre();
            console.log('Titre récupéré:', titre);
            return titre;
    }
```