

# Part III

## Adding a Proposal & Viewing the DAPP

# Add a new proposal

Expand addProposal function

▼

Ballot at 0xbE7...bF3c6 (blockchain)

📄





✕

addProposal	string desc, string title, address targetAddr	▼
vote	address proposal	▼
getProposals		
proposals	address	▼
proposalsSender	uint256	▼
timeOut		
winningProposal		

# Copy your address

Run tab: Account

Compile Run Settings Analysis Debugger Support

Environment	Injected Web3  Ropsten (3) ▼ 	
Account	0x309...26e55 (10.994338592 ether) ▼	 
Gas limit	3000000	
Value	0	wei ▼

# Type a proposal

Run tab: Account

✕

▼ Ballot at 0xbE7...bF3c6 (blockchain) 📄

addProposal ^

desc: "I think you could add a new feature to Remix that does..."

title: "This is my Remix improvements proposal"

targetAddr: address

transact

# Add your address

Paste the address

✕

▼ Ballot at 0xbE7...bF3c6 (blockchain) 📄

addProposal ^

desc: "I think you could add a new feature to Remix that does..."


title: "This is my Remix improvements proposal"

targetAddr: "0x3092232fb25e6b359a9fead9ed07ad752ff26e55"

transact

# Execute addProposal

Hit the transact button

▼ **Ballot at 0xbE7...bF3c6 (blockchain)** 

**addProposal** ^

desc:

"I think you could add a new feature to Remix that does..."

title:

"This is my Remix improvements proposal"

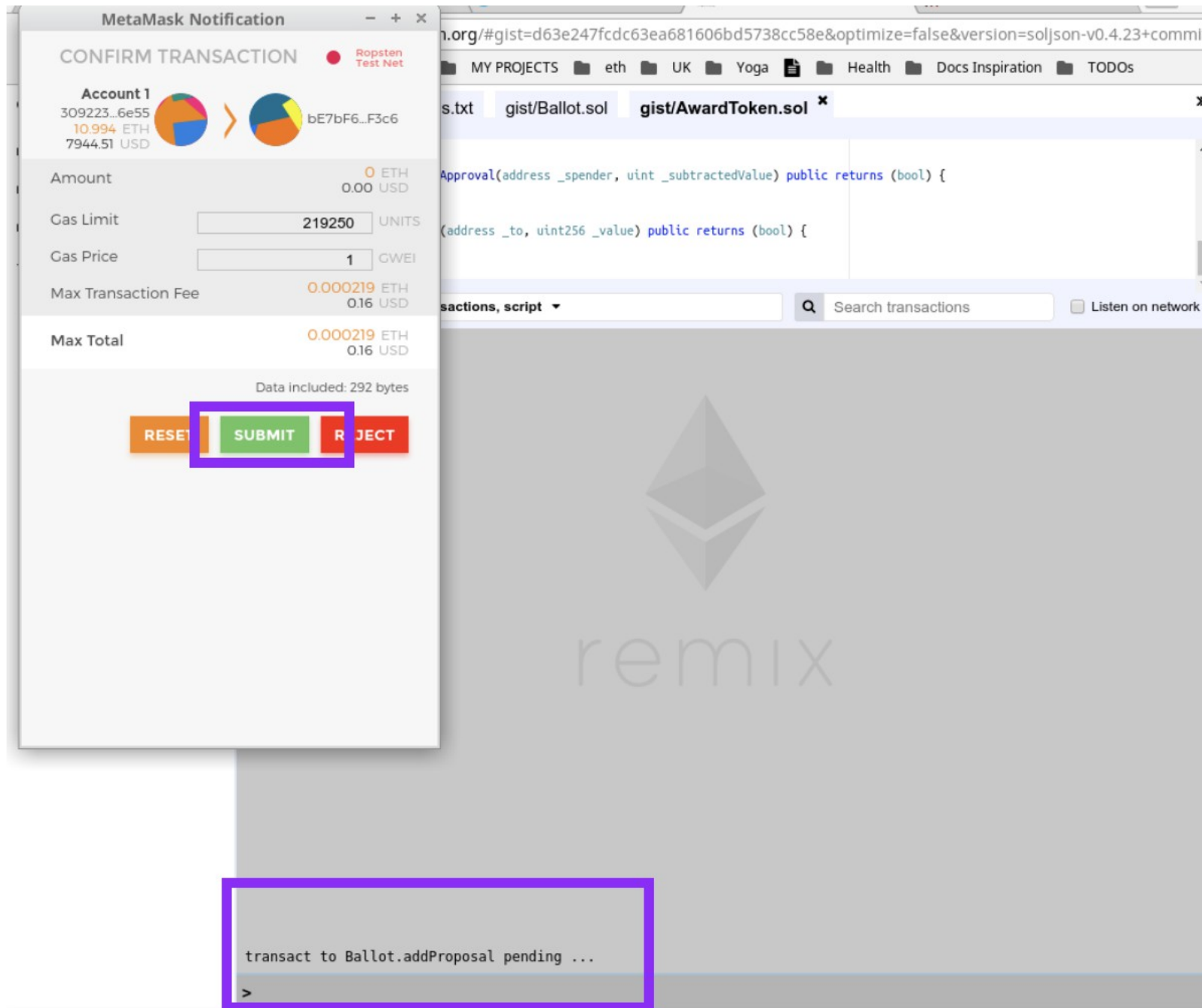
targetAddr:

"0x3092232fb25e6b359a9fead9ed07ad752ff26e55"

transact

# Confirm the transaction

## Submit button



# Check if tx succeeded

# Terminal logs in Remix

[illegible]



# Execute getProposals

getProposals call

▼

Ballot at 0xbE7...bF3c6 (blockchain)

✕

addProposal

string desc, string title, address targetAddr

▼

vote

address proposal

▼

getProposals

proposals

address

▼

proposalsSender

uint256

▼

timeOut

winningProposal

# See Proposals Addresses

well in so far there will only be 1 address

call to Ballot.getProposals

▼ **[call]** from:0x3092232fb25e6b359a9fead9ed07ad752ff26e55 to:Ballot.getProposals()  
data:0x625...64c48

Debug

from	0x3092232fb25e6b359a9fead9ed07ad752ff26e55
to	Ballot.getProposals() 0xbE7bF60cee009DCDb2Ad8D045c19e76597bbF3c6
input	0x62564c48
decoded input	{}
decoded output	{ "0": "address[]: 0x3092232FB25e6b359a9fEad9eD07Ad752Ff26e55,0xFd0f51afb685Cd8735AfE7685D21355589602b8c,0x6Acd3829405CaFD677C7792c27a4c1c3013d7534" }
logs	[ ]

# Vote for one Proposal

Paste Proposal Address you want to vote for

Compile

Run

Settings

Analysis

Debugger

Support

Account

0x309...26e55 (10.994119342 ether)

Gas limit

3000000

Value

0

wei

Ballot

Deploy

uint256 duration

0xbE7bF60cee009DCDb2Ad8D045c19

At Address

0 pending transactions

Ballot at 0xbE7...bF3c6 (blockchain)

addProposal

string desc string title address targetAddr

vote

0x6Acd3829405CaFD677C7792c27a4c1c3013d7534

# Execute vote transaction

vote button

Compile

Run

Settings

Analysis

Debugger

Support

Account

0x309...26e55 (10.994119342 ether)

Gas limit

3000000

Value

0

wei

Ballot

Deploy

uint256 duration

0xbE7bF60cee009DCDb2Ad8D045c19

At Address

0 pending transactions

Ballot at 0xbE7...bF3c6 (blockchain)

addProposal

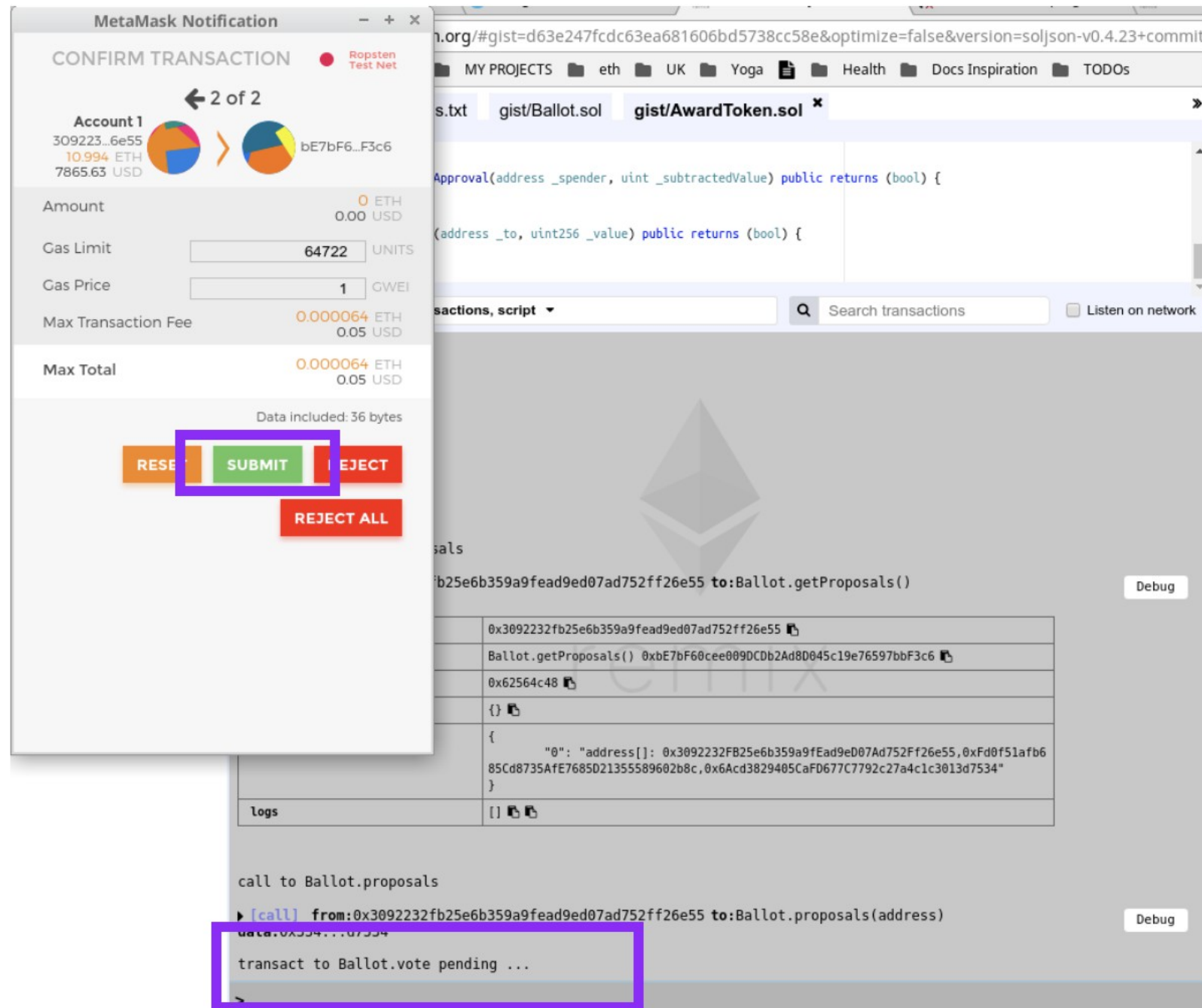
string desc, string title, address targetAddr

vote

x6Acd3829405CaFD677C7792c27a4c1c3013d7534

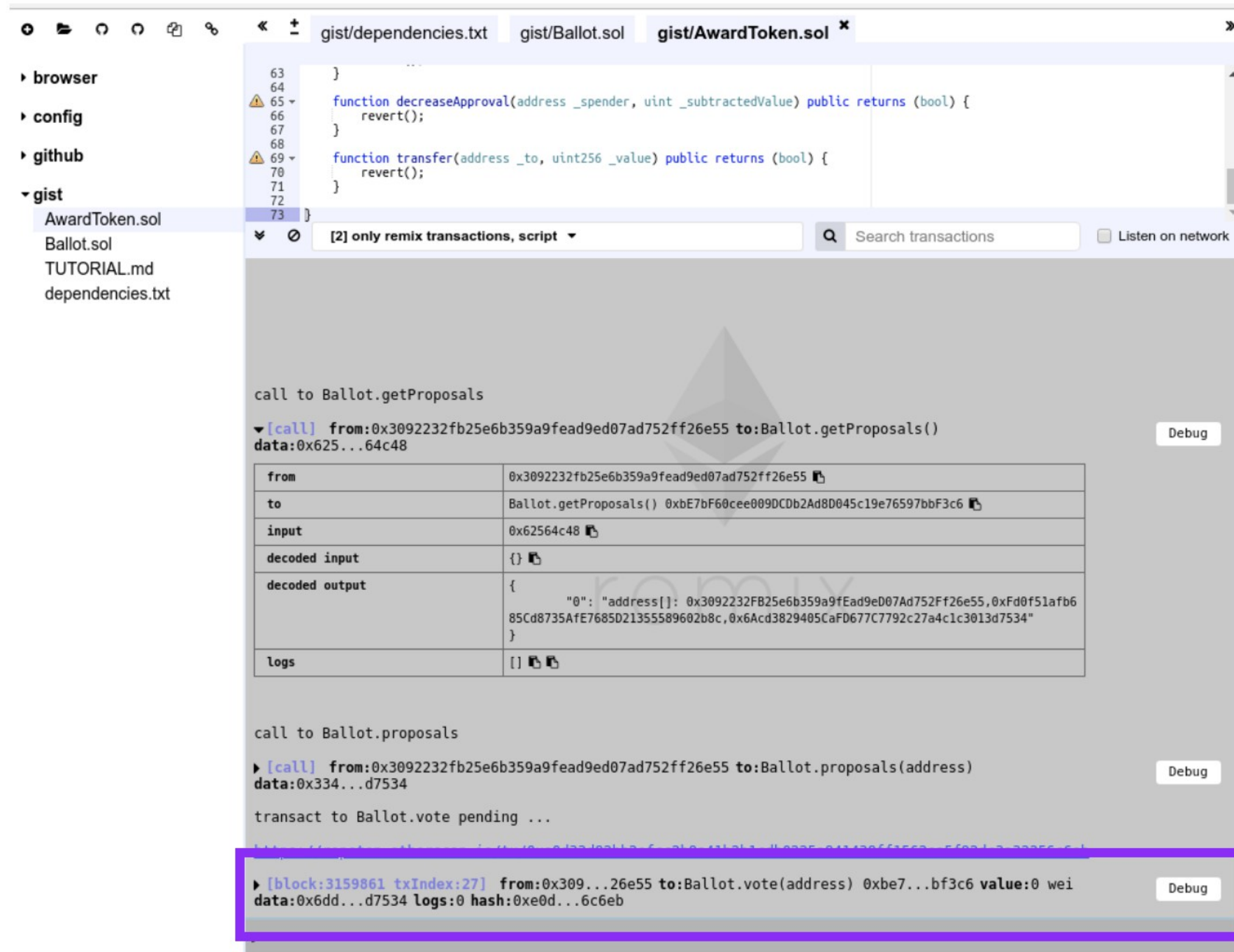
# Confirm the transaction

## Submit button



# Check if tx succeeded

## Terminal logs in Remix



The screenshot shows the Remix IDE interface. The left sidebar contains a file explorer with the following files: `browser`, `config`, `github`, and `gist`. Under `gist`, there are `AwardToken.sol`, `Ballot.sol`, `TUTORIAL.md`, and `dependencies.txt`. The main editor displays the `Ballot.sol` file, showing the following code:

```
63 }
64
65 function decreaseApproval(address _spender, uint _subtractedValue) public returns (bool) {
66     revert();
67 }
68
69 function transfer(address _to, uint256 _value) public returns (bool) {
70     revert();
71 }
72
73 }
```

The terminal window at the bottom shows the following logs:

```
call to Ballot.getProposals
[call] from:0x3092232fb25e6b359a9fead9ed07ad752ff26e55 to:Ballot.getProposals()
data:0x625...64c48
Debug
```

from	to	input	decoded input	decoded output	logs
0x3092232fb25e6b359a9fead9ed07ad752ff26e55	Ballot.getProposals() 0xbE7bF60cee009DCDb2Ad8D045c19e76597bbF3c6	0x62564c48	{}	{ "0": "address[]: 0x3092232FB25e6b359a9fEad9eD07Ad752Ff26e55,0xFd0f51afb685Cd8735AfE7685D21355589602b8c,0x6AcD3829405CaFD677C7792c27a4c1c3013d7534" }	[]

```
call to Ballot.proposals
[call] from:0x3092232fb25e6b359a9fead9ed07ad752ff26e55 to:Ballot.proposals(address)
data:0x334...d7534
Debug
```

```
transact to Ballot.vote pending ...
[block:3159861 txIndex:27] from:0x309...26e55 to:Ballot.vote(address) 0xbe7...bf3c6 value:0 wei
data:0x6dd...d7534 logs:0 hash:0xe0d...6c6eb
Debug
```

# Now let's try it out connecting a frontend

<http://bit.ly/remix-voting>

( when dependencies.js is the active file )

To access our Award Token from this frontend -  
you need the address of the Award Token.

Go to [ethereum/remix-workshop](https://ethereum/remix-workshop) to access the award token I just deployed

```
contract Ballot {
    uint _duration;
    uint _startTime;
    struct Proposal {
        string description;
        string title;
        uint voteCount;
    }
}
```



```
contract AwardToken is MintableToken {
    uint quantity;
    uint ballotPeriod = 7 hours;
    Ballot public currBallot;
    address[] public prevWinners;
}
```

CREATE NEW PROPOSAL

ROUND: 1

ROUND: 2

ROUND: 3

ROUND: 4

Vote for proposal and help us reward the projects that benefit the community!

PROPOSALS

PROPOSAL TITLE/DESCRIPTION

Choose only one

>
**PROPOSAL 1**
  

 Lorem ipsum dolor sit amet, consectetur adipiscing...
   
 1 vote(s)

>
**PROPOSAL 3**
  

 Neque porro quisquam est, qui dolorem ipsum quia ...
   
 0 vote(s)



# Let's check results

<http://bit.ly/remix-voting>

# Check the state of the contract

▼

Ballot at 0x712...0Aa64 (blockchain)

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✕

addProposal

string desc, string title, address targetAddr

▼

finish

vote

address proposal

▼

getProposals

0: address[]:

0x9Ae59aF2E33480cAa48f2DC6F6CeDe7FFAb06Ff6,0xdc7b1AaC1D13d58C  
EcEEc58434C1E32Fe2A1297f

2 proposals have been added

# Thank you

@ninabreznik @ryestew @yann300  
@serapath @LianaHus @iurimatias

<http://bit.ly/remix-workshop-repository>