



ETHEREUM BEHAVIORAL DESIGN PATTERNS – COMMIT –REVEAL

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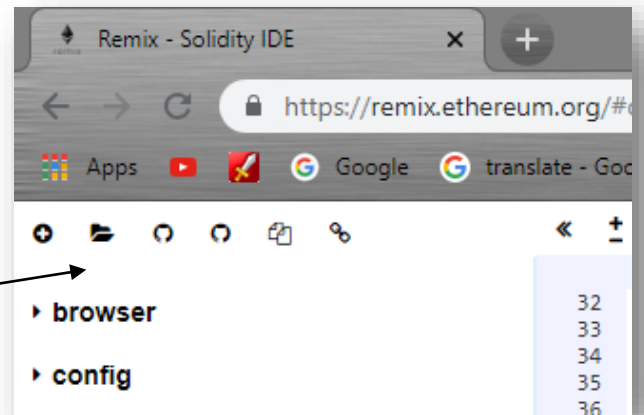
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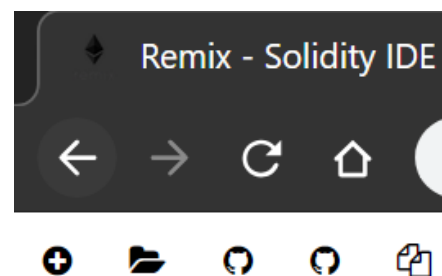
INSTRUCTIONS

Go to <https://remix.ethereum.org/>

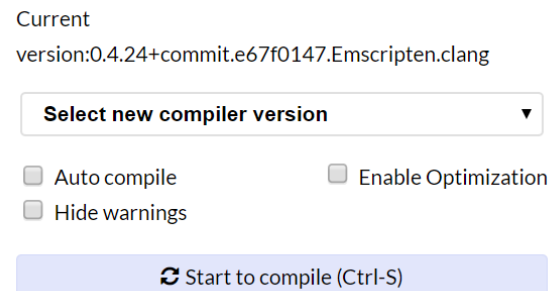
1. Click the icon and go to the folder Directory of this document and select CommitRevealElection.sol



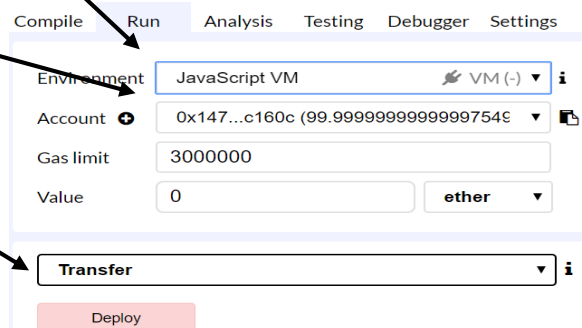
2. Click "browser" and it will collapse find "CommitRevealElection.sol" and select it.



3. Select new compiler version. Set it to 0.4.24+commit version.
Then, select Run tab.



4. Select **Environment** change it to JavaScript VM.
5. Select **Account** from the drop down button. Remember you chosen account.
6. Click **deploy**.



Deploying the Contract

For the first parameter put the duration of the election then second input goes to the first candidate for the election and third input goes for the second candidate.

Ex. 120, "brent", "Anthony"

CommitRevealElection

i

Deploy

360, "brent", "anthony"

✓

Committing a Vote

Find the commitVote field and provide the index of the candidate and a "-" symbol then the password for cracking your secret vote. Then click the button.

Ex. "1-mypassword"

commitVote

"1-mypassword"

✓

Revealing a Vote

Find the revealVote field and put the value of the vote then hit the button.

Note: You have to wait the end of the duration of the election before revealing votes. In this examples case it is 120 seconds.

Ex. "1-mypassword"

revealVote	"1-mypassword"	▼
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Getting candidate number of Votes

After revealing the vote it will now be counted in the total of the candidate votes.

votesForChoice1

0: uint256: 1

Getting Winner

Make sure that before calling this function the election has ended and all committed votes are revealed.

getWinner

0: string: brent



References:

Commit-Reveal Documentation -

<https://karl.tech/learning-solidity-part-2-voting/>