

# Web3 JavaScript API

Chien Chi 2017/10/18

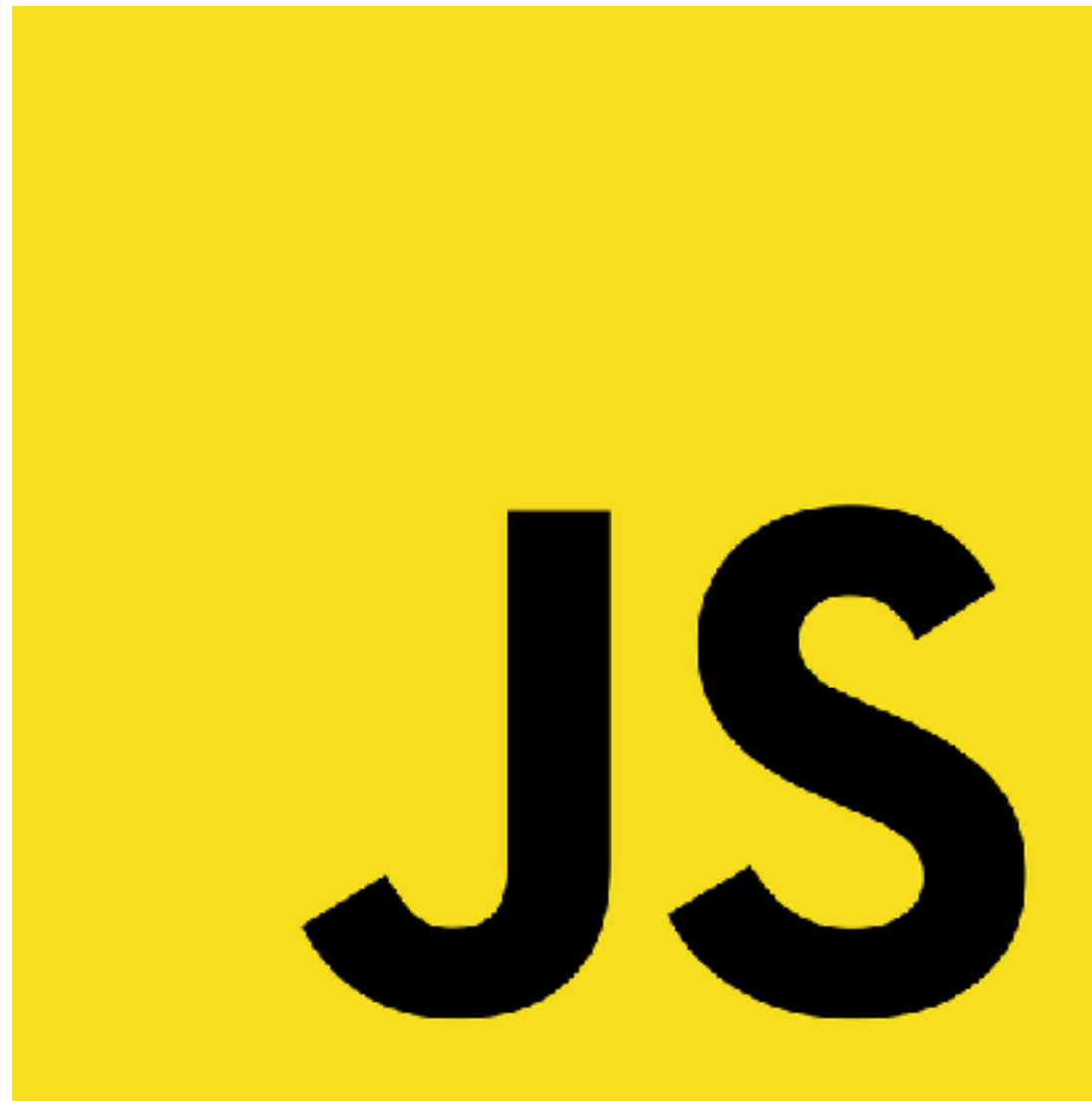
**DAPP**

# DAPP



# DAPP





# DEMO

# if json response “”

```
geth --identity "CHIEN CHAIN" --rpc --rpccorsdomain "*" --datadir "~/eth/  
chain" --port "30303" --rpcapi "db,eth,net,web3" --rpcaddr "0.0.0.0" --  
networkid 95518 console
```

Blockchain Connect

Check Node Version

Get Accounts

Check Node Status

Get Accounts Balances

Transaction

Send Transaction

Lock Unlock Accounts

Compile & Deploy Contracts

Execute Contracts

Get Events & Logs

Get Contract Events



index.html

- HTML UI Components

main.js

- All web3 JS API calls + some UI related code

utils.js

- UI related utility functions

```
<div class="sidekick">
  <h1>Setup</h1>
  <p class='notready' id='connect_status'>Not connected</p>
  <span>Provider</span>
  <span><input type='text' id='provider_url' value='http://localhost:8545'></span>
  <span>
    <button onclick="doConnect()">Connect</button>
  </span>
  <br>
  <span>
    <button onclick="doGetNodeStatus()">Node Status</button>
  </span>
  <span id="get_peer_count" class="notready">...</span>
</div>
```

```
function doConnect() {  
  
    // Get the provider URL  
    var provider = document.getElementById('provider_url').value;  
    var provider = document.getElementById('provider_url').value;  
    window.web3 = new Web3(new Web3.providers.HttpProvider(provider));  
    startApp();  
}
```

*Part of main.js*

```
function createTransactionObjectJson() {
  var transObject = {};
  // get the from and to account
  transObject.from = document.getElementById('send_from_account').value;
  transObject.to = document.getElementById('send_to_account_value').value;
  // Get the value in ether and convert to wei
  var valueInEther = document.getElementById('send_value_in_ether').value
  var valueInWei = web3.toWei(valueInEther, 'ether');
  transObject.value = valueInWei;
  // set the gas and gasPrice
  if(document.getElementById('send_gas').value !== 'default')
    transObject.gas = document.getElementById('send_gas').value;
  if(document.getElementById('send_gas_price').value !== 'default')
    transObject.gasPrice = document.getElementById('send_gas_price').value;
  // set the data
  if(document.getElementById('send_data').value !== 'default'){
    // convert the ascii to hex
    var data = document.getElementById('send_data').value;
    transObject.data = web3.toHex(data);
  }
  // set the nonce
  if(document.getElementById('send_nonce').value !== 'default')
    transObject.nonce = document.getElementById('send_nonce').value;
  return transObject;
}
```

*Part of utils.js*

# Demo Website & API related data



<https://eth.gcclab.cc>