

# Web3js exercises 1

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1. Install Webpack and investigate the code

In an empty directory unbox webpack

```
npx truffle unbox webpack
```

Run ganache

```
npx ganache-cli
```

In a separate terminal run the truffle console

```
npx truffle console
```

Compile and migrate the contracts

```
compile
```

```
migrate
```

now start the front end, move to the app directory

```
cd app
```

start the dev server

```
npm run dev
```

2. Change the migration script to include your Volcano coin and add this to the contracts directory
3. Add the unit tests you used previously to the test directory and run the tests
4. Now make changes to the source code in the app directory to interact with your volcano coin, rather than Metacoin
5. The application doesn't use events, when a token has been transferred it refreshes the balance.
6. Re write the code to add an event listener.
7. React to the events from your contract to display a message when
  - a). You have spent tokens
  - b). You have received tokens

8. If you are unable to deploy locally, you will need to deploy to Rinkeby  
See <https://www.trufflesuite.com/docs/truffle/reference/configuration#networks>  
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9. Adjust the app code to interact via metamask and point it to your deployed contract on Rinkeby.

## Resources

### Installing NVM

<https://github.com/nvm-sh/nvm#installing-and-updating> (<https://github.com/nvm-sh/nvm#installing-and-updating>)

### Installing VSCode

<https://code.visualstudio.com/> (<https://code.visualstudio.com/>)