

First attempt:

The screenshot shows a Windows desktop environment. At the top, there's a taskbar with several pinned icons. In the center, a Microsoft Edge browser window is open, displaying a page from npu85.npu.edu. To the right of the browser is a Command Prompt window showing npm command history. Below these windows is a large area for the main desktop workspace.

Step 0: Overview

- This lab is to show how to create and use Solidity/Smart Contract Events with your decentralized apps.

Preparation

- cd c:\henry\src\train\java\java\course\building_blockchain_projects\smart_contract
- mkdir coursetro-eth
- cd coursetro-eth
- Open a DOS window
- npm init
- npm install web3@0.20.6 --save

Step 1: The Current Contract

- If you landed on this page without following along from the previous lessons, just copy and paste this contract in the Remix IDE:

```
pragma solidity ^0.4.18;

contract Coursetro {
    string fName;
    uint age;
    function setInstructor(string _fName, uint _age) public {
        fName = _fName;
        age = _age;
    }
    function getInstructor() view public returns (string, uint) {
        return (fName, age);
    }
}
```

2. It sets and gets an instructor's age and name.

Step 2: Defining the Smart Contract Event

- An event occurs when we set the Instructor's name. Let's define one in the contract just above the `setInstructor()` function:

```
event Instructor(
    string name
```

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Step 1: The Current Contract

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2. It sets and gets an instructor's age and name.

Step 2: Defining the Smart Contract Event

- An event occurs when we set the Instructor's name. Let's define one in the contract just above the `setInstructor()` function:

```
event Instructor(
    string name
```

Exercise 4: Solidity Events

1. An **event** occurs when we set the **Instructor's name**. Let's define one in the contract just above the **setInstructor()** function:

```
event Instructor(
    string fName,
    uint age
)
// function setIns..
// function getIns..
```

Note:

- **\$("id") selector**
 - For example, `$("mydiv")` matches <div id="mydiv">
 - **Example**
- We're passing in 2 types that will represent the name and age. When the **event** is successfully **returned in the UI**, we can access these values.

2. To actually use this **event**, we need to call the **event** and pass in the **submitted name** and age within the existing **setInstructor()** method, like so:

```
function setInstructor(string _fName, uint _age) public {
    fName = _fName;
    age = _age;
    Instructor(_fName, _age); // Add this
}
```

Note:

- When **setInstructor()** is initiated by the user clicking the **Set Instructor** button in our UI, an **event** is created where we can listen to it through **JavaScript** and determine when to hide a **loading graphic**.
- Error
 - Symptom
 - Warning: Invoking events without "emit" prefix is deprecated.
 - Investigation
 - `Linnia.sol`: Invoking events without "emit" prefix is deprecated
 - Invoking events without "emit" prefix is deprecated in `Transfer(msg.sender, to, value)`; • *
 - Solution
 - Old


```
Instructor(_fName, _age);
```
 - New


```
emit Instructor(_fName, _age);
```

Remix - Ethereum IDE

FILE EXPLORERS

browser

1.Storage.sol
2.Owner.sol
3.Ballot.sol
4.Ballot_test.sol
Coursestro.sol
Lab3.sol

contract Coursestro {
 string fName;
 uint age;
 constructor() public {
 fName = "Gary";
 age = 34;
 }
 event Instructor(
 string fName,
 uint age
);
 // setInstructor accepts 2 parameters, _fName and _age.
 // Once called, we set our string fName to the returned
 // fName, and same with age.
 function setInstructor(string _fName, uint _age) public {
 fName = _fName;
 age = _age;
 }
 // The getInstructor() function is defined as being
 // constant, and it returns a string and a uint. This is what
 // we return the fName variable once it's called.
 function getInstructor() public constant returns (string, uint)
 {
 return (fName, age);
 }
}

status

0x1 Transaction mined and execution succeed

transaction hash

contract address

from

to

gas

transaction cost

execution cost

hash

input

decoded input

decoded output

logs

12:23 PM 3/30/2020

Windows Taskbar

Type here to search

Hulu Student Index Exercises for Dev Lab 4: Solidity E...

1.Storage.sol
2.Owner.sol
3.Ballot.sol
4.Ballot_test.sol
Coursestro.sol
Lab3.sol

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contract Coursestro {
 string fName;
 uint age;
 constructor() public {
 fName = "Gary";
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1.Storage.sol
2.Owner.sol
3.Ballot.sol
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Coursestro.sol
Lab3.sol

pragma solidity ^0.4.18;

contract Coursestro_lab4 {
 string fName;
 uint age;
 event Instructor(
 string fName,
 uint age
);
}

ABI Cod

[
 {
 "constant": false,
 "inputs": [
 {
 "name": "_fn",
 "type": "string"
 },
 {
 "name": "_age",
 "type": "uint256"
 }
],
 "name": "setInstructor",
 "outputs": [
 {
 "name": "fName",
 "type": "string"
 },
 {
 "name": "age",
 "type": "uint256"
 }
],
 "type": "function"
 }
]

12:23 PM 3/30/2020

Investigation

- Linus* sol: Invoking events without "emit" prefix is deprecated
- Invoking events without "emit" prefix is deprecated in Transfer(msg.sender, to, value); • •

Solution

- Old


```
Instructor(_Name, _age);
```
- New


```
emit Instructor(_Name, _age);
```

lab4.sol

```
pragma solidity ^0.4.18;

contract Coursetro_lab4 {
    string fName;
    uint age;
    event Instructor(string name, uint age);
}

function setInstructor(string _fName, uint _age) public {
    fName = _fName;
    age = _age;
    emit Instructor(_fName, _age); // Add this
}

function getInstructor() public constant returns (string, uint) {
    return (fName, age);
}
```

ABI Code

```
[{"constant": false, "inputs": [{"name": "fName", "type": "string"}, {"name": "age", "type": "uint256"}], "name": "setInstructor", "outputs": [], "payable": false, "stateMutability": "non-payable", "type": "function"}, {"anonymous": false, "inputs": [{"indexed": false, "name": "name", "type": "string"}, {"indexed": false, "name": "age", "type": "uint256"}], "name": "Instructor", "type": "event"}
```

Remix - Ethereum IDE

Contract: Coursetro_lab4 (Lab4.sol)

Compiler: 0.4.26+commit.4563c3fb

EVM Version: compiler default

ABI Code

Contract: Coursetro_lab4 (Lab4.sol)

Publish on Swarm

Publish on IPFS

Compilation Details

ABI Bytecode

SOLIDITY COMPILER

Compiler: 0.4.26+commit.4563c3fb

Language: Solidity

EVM Version: compiler default

Compile Lab4.sol

Compiler Configuration

Auto compile

Enable optimization

Hide warnings

Contract: Coursetro_lab4 (Lab4.sol)

status: Transaction mined and execution success

transaction hash: 0xdec2d095172a95e331b0be42de55147e467ed45fd

contract address: 0xa322e4add099f0dfe

from: 0x4ca5b0d915481ef484de0d0df2e446bf735c

to: Coursetro.(constructor)

gas: 3000000 gas

transaction cost: 31163 gas

execution cost: 133019 gas

hash: 0xdec2d095172a95e331b0be42de55147e467ed45fd

ca322e4add099f0dfe

input: 0xd0...e029

decoded input: -

decoded output: -

lens: 111

Type here to search

File Edit View Project Build Debug Test Analyze Tools Extensions Search... node_ules

main.css

```
<title>Document</title>
<link rel="stylesheet" type="text/css" href="main.css">
<script src="/node_modules/web3/dist/web3.min.js"></script>
<script>
    if (typeof web3 !== 'undefined') {
        web3 = new Web3(web3.currentProvider);
    } else {
        web3 = new Web3(new Web3.providers.HttpProvider("http://localhost:8545"));
    }
    web3.eth.defaultAccount = web3.eth.accounts[0];
    var CoursetroContract = web3.eth.contract(YOUR ABI);
    var Coursetro = CoursetroContract.at('CONTRACT ADDRESS');
    Coursetro.setInstructor(function(error, result) {
        if (error) {
            $("#instructor").html(result[0] + ' (' + result[1] + ' years old)');
        } else
            console.log(error);
    });
    $("#button").click(function() {
        $("#loader").show();
        Coursetro.setInstructor($("#name").val(), $("#age").val());
    });
</script>
```

Type here to search

File Edit View Project Build Debug Test Analyze Tools Extensions Select Startup Item... Live Share

index.html

```
<title>Document</title>
<link rel="stylesheet" type="text/css" href="main.css">
<script src="/node_modules/web3/dist/web3.min.js"></script>
<script>
    if (typeof web3 !== 'undefined') {
        web3 = new Web3(web3.currentProvider);
    } else {
        web3 = new Web3(new Web3.providers.HttpProvider("http://localhost:8545"));
    }
    web3.eth.defaultAccount = web3.eth.accounts[0];
    var CoursetroContract = web3.eth.contract(YOUR ABI);
    var Coursetro = new Web3(new Web3.providers.HttpProvider("http://localhost:8545"));
    Coursetro.setInstructor(function(error, result) {
        if (error) {
            $("#instructor").html(result[0] + ' (' + result[1] + ' years old)');
        } else
            console.log(error);
    });
    $("#button").click(function() {
        $("#loader").show();
        Coursetro.setInstructor($("#name").val(), $("#age").val());
    });
</script>
// Previous if/else statement removed for brevity
web3.eth.defaultAccount = web3.eth.accounts[0];

```

No issues found

Error List

Code	Description
Entire Solution	0 Errors 0 Warnings 0 Messages
Project	Build + IntelliSense
File	Search Error List
Line	

Since we no longer need to call `Coursestro.getInstructor()`, so we're going to remove this.

b. Create a variable to reference our event:

```
// Replace the Coursestro.getInstructor() lines with this line:
var instructorEvent = Coursestro.instructor();
```

c. Use the `.watch()` method on `instructorEvent` with a callback. Beneath the above line of code, paste this:

```
instructorEvent.watch(function(error, result){
  if (error) {
    $("#loader").hide();
    $("#instructor").html(result.args.name + ' (' + result.args.age + ' years old)');
  } else {
    $("#loader").hide();
    console.log(error);
  }
});
```

Note:

- We're referencing `#loader` image that doesn't yet exist.
- In the HTML body, paste the following line anywhere in the UI (I put mine beneath the `<h2>` element):

```

```

3. Next, in the `main.css` file, add this ruleset:

```
#loader {
  width: 100px;
  display:none;
}
```

4. Before any of this will work, make sure you remember to use the **Remix IDE** to deploy the **updated contract**, copy and paste the **ABI** along with the new **smart contract address**. You will also need to make sure **testrpc** is running in the console.

5. If you did everything correctly, you can now view `index.html` in the browser, specify a name and age and hit **Set Instructor**.

6. After doing so, you should see this **loading graphic** for a short duration time, in which it will disappear and update the display of the instructor's name and age:

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6. After doing so, you should see this **loading graphic** for a short duration time, in which it will disappear and update the display of the instructor's name and age:

1. Create a lab4.sol on Remix IDE. Run and Deploy

```

pragma solidity ^0.4.25;
contract Blockchain {
    string name;
    uint age;
    event Instructor(string _name, uint _age);
    function setInstructor(string _name, uint _age) public {
        name = _name;
        age = _age;
        emit Instructor(_name, _age);
    }
    function getInstructor() public constant returns (string, uint) {
        return (name, age);
    }
}

```

2. Create index_lab4.html under labs.

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Document</title>
    <link rel="stylesheet" type="text/css" href="main_lab4.css">
    <script src="/node_modules/web3/dist/web3.min.js"></script>
</head>
<body>
<div class="container">
    <h1>Coursetro Instructor</h1>
    <h2 id="instructor"></h2>
    
    </h2>
    <label for="name" class="col-lg-2 control-label">Instructor Name</label>
    <input id="name" type="text">

```

6. setInstructor: "George", 64 in Remix

```

pragma solidity ^0.4.25;
contract Blockchain {
    string name;
    uint age;
    event Instructor(string _name, uint _age);
    function setInstructor(string _name, uint _age) public {
        name = _name;
        age = _age;
        emit Instructor(_name, _age);
    }
    function getInstructor() public constant returns (string, uint) {
        return (name, age);
    }
}

```

Coursetro Instructor

Instructor Name: a
Instructor Age: 50
Update Instructor

Console Errors:

- Failed to load resource: net::ERR_FILE_NOT_FOUND index.html:14
- Uncaught ReferenceError: Web3 is not defined at index.html:15
- Uncaught ReferenceError: web3 is not defined at index.html:92
- Uncaught ReferenceError: web3 is not defined at index.html:96
- Uncaught ReferenceError: web3 is not defined at index.html:106
- Uncaught ReferenceError: web3 is not defined at index.html:144
- Uncaught TypeError: Cannot read property 'getInstructor' of undefined at index.html:205

George (64 years old)

Instructor Name:
Instructor Age:
Update Instructor

Second attempt (Using Ubuntu and Xming):

The screenshot shows a Windows desktop environment with several windows open:

- A browser window displaying a code snippet from a tutorial about defining a smart contract event.
- A browser window displaying another code snippet, likely related to the event definition.
- A Remix - Ethereum IDE window showing the Solidity code for the 'Coursetro' contract. The code includes an event 'Instructor' and a constructor that sets the name and age. A transaction record is shown for a deployment.
- A taskbar at the bottom with various application icons.

The Solidity code in the Remix IDE:

```
pragma solidity ^0.4.18;
contract Coursetro {
    string fName;
    uint age;
    event Instructor(string name, uint age);
}
function setInstructor(string _fName, uint _age) public {
    fName = _fName;
    age = _age;
    Instructor(_fName, _age); // Add this
}
```

The terminal in the Remix IDE shows the following help text:

```
Welcome to Remix v0.7.7 -
You can use this terminal for:
• Checking transactions details and start debugging.
• Running JavaScript scripts. The following libraries are accessible:
  • web3 version 1.0.0
  • ethers.js
  • compilers - contains currently loaded compiler
• Executing common command to interact with the Remix interface (see list of commands above). Note that these commands can also be included and run from a JavaScript script.
• Use exports/.register(key, obj)/.remove(key)/.clear() to register and reuse object across script executions.
```

We're going to make some changes to this. First, we no longer need to call `Coursetro.getInstructor()`, so we're going to remove that.

Then, we're going to create a variable to reference our event:

```
// Replace the Coursetro.getInstructor() lines with this line:
var instructorEvent = Coursetro.Instructor();
```

Next, we're going to use the `.watch()` method on `instructorEvent` with a callback. Beneath the above line of code, paste this:

```
instructorEvent.watch(function(error, result){
  if (error)
    {
      $("#loader").hide();
      $("#instructor").html(result.args.name + ' (' + result.args.age + ' years old');
    } else {
      $("#loader").hide();
      console.log(error);
    }
});
```

Simple enough!

Notice that we're referencing `#loader` that doesn't yet exist. In the HTML body, paste the following line anywhere in the code:

```
<script>
```

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Simple enough!

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```

Geany Editor Screenshot:

The screenshot shows the Geany code editor with two tabs: `index.html` and `main.css`. The `index.html` tab contains the following code:

```
<script>
```

We're going to make some changes to this. First, we no longer need to call `Coursetro.getInstructor()`, so we're going to remove that.

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});
```

Simple enough!

Notice that we're referencing `#loader` that doesn't yet exist. In the HTML body, paste the following line anywhere in the code:

```
<script>
```

Geany Status Bar Log:

```
12:06:53: Passing data and executing custom command: bash -c "astyle --indent-classes -Y"
12:06:54: The executed custom command returned an error. Your selection was not changed. Error message: bas
12:06:56: Passing data and executing custom command: bash -c "astyle --indent-classes -Y"
12:06:56: The executed custom command returned an error. Your selection was not changed. Error message: bas
12:10:58: File /home/mva456/coursetro-eth/index.html saved.
```

line: 105 / 134 col: 4 sel: 0 INS TAB MOD mode: LF encoding: UTF-8 filetype: HTML scope: Coursetr...

Geany Bottom Status:

```
133 PM 4/3/2020
```

Windows Taskbar:

The taskbar shows several open windows including a browser tab for coursetro.com, a terminal window, and the Geany editor.

The screenshot shows a Remix IDE interface with two tabs open: `index.html` and `main.css`.

index.html:

```
<body>
  <div class="container">
    <h1>Coursetro Instructor</h1>
    <div id="loader" src="https://loading.io/spinners/double-ring/lg.double-ring-spinner.gif"></div>
    <form>
      <label for="name">Name</label>
      <input type="text" id="name" value="Instructor Name" />
      <label for="age">Age</label>
      <input type="text" id="age" value="Instructor Age" />
      <button id="button">Update Instructor</button>
    </form>
  </div>
</body>
```

main.css:

```
#loader {
  width: 100px;
  display:none;
}
```

Status Bar:

12:06:54: The executed custom command returned an error. Your selection was not changed. Error message: bash -c "astyle --indent-classes -Y" 12:06:56: Passing data and executing custom command: bash -c "astyle --indent-classes -Y" 12:06:56: The executed custom command returned an error. Your selection was not changed. Error message: bash -c "astyle --indent-classes -Y" 12:10:58: File /home/mva456/coursetro-eth/index.html saved. 13:38:50: File /home/mva456/coursetro-eth/index.html saved.

Before any of this will work, make sure you remember to use the Remix IDE to deploy the updated contract, copy and paste the ABI along with the new smart contract address. You will also need to make sure `testrpc` is running in the console.

If you did everything correctly, you can now view `index.html` in the browser, specify a name and age and hit `Set Instructor`.

After doing so, you should see this loading graphic for a short duration time, in which it will disappear and update the display of the instructor's name and age:

Coursetro Instructor

Owner address:

George (64 years old)

Instructor Name
Brady

Instructor Age
42

Update Instructor

Console output (partial):

```

Connected index.html:38
Creating Coursetro index.html:105
index.html:111
h _eth: _, transactionHash: null, address:
"0x17ed5102116e69e21641f0821510d37fb0304
obj: Array(3), setInstructor:
f, -)

```

Type here to search

Document File: C:/Users/mvamo/AppData/Local/Packages/CanonicalG... https://npu85.npue...

Apps Bookmarks Bookmarks HSJ School Random Dinner Ge... https://npu85.npue...

Apps Bookmarks Bookmarks HSJ School Random Dinner Ge... https://npu85.npue...

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Owner address:

George (64 years old)

Instructor Name
Brady

Instructor Age
42

Update Instructor

Console output (partial):

```

Connected index.html:38
Creating Coursetro index.html:105
index.html:111
h _eth: _, transactionHash: null, address:
"0x17ed5102116e69e21641f0821510d37fb0304
obj: Array(3), setInstructor:
f, -)
Inside click index.html:142

```

Conclusion

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4. Capturing Smart Contract Events in our User Interface (Solidity)

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DesignCourse 550K subscribers

Free Course Page (In development): <https://goo.gl/EIKpPP>
Written tutorial of this video: <https://goo.gl/tJFWw1>
<https://coursetro.com>

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Symbols index.html main.css

```

119      $("#instructor").html(result.args.name + ' (' + result.args.age +
120      + " years old)");
121    } else {
122      $("#loader").hide();
123      console.log(error);
124    }
125  });
126
127 /* Removed for Lab 4
128 Coursetro.getInstructor(function(error, result){
129   if (!error)
130   {
131     console.log('Inside error');
132     // result[0] is name, result[1] is age
133     $("#instructor").html(result[0]+ ' ('+result[1]+' years old)');
134     console.log(result);
135   }
136   else
137     console.error(error);
138 })
139 */
140 $("#button").click(function() {
141   console.log('Inside click');
142   Coursetro.setInstructor($("#name").val(), $("#age").val());
143   $("#loader").show();
144 });
145
146 </script>
147
148 </body>
149
150 </html>
151
152
153

```

Status

- 13:57:32: File /home/mva456/coursetro-eth/index.html saved.
- 14:00:11: File /home/mva456/coursetro-eth/index.html saved.
- 14:00:21: File /home/mva456/coursetro-eth/index.html saved.
- 14:01:36: File /home/mva456/coursetro-eth/index.html saved.
- 14:03:39: File /home/mva456/coursetro-eth/main.css saved.
- 14:04:34: File /home/mva456/coursetro-eth/main.css saved.

line: 144 / 154 col: 25 sel: 0 INS TAB MOD mode: LF encoding: UTF-8 filetype: HTML scope: Coursetro..

Document

File C:/Users/mvma/AppData/Local/Packages/CanonicalG...

Console

```

A cookie associated with [index.html] was set without the 'SameSite' attribute. A future release of Chrome will only deliver cookies with 'SameSite=None' if they are marked with 'Secure'. You can review cookies in developer tools. See the Application Cache specification and see more details at https://www.chromestatus.com/feature/5988147440930592 and https://www.chromestatus.com/feature/5988147440930592.
> [Deprecation] webkit_min.js:1
Synchronous XMLHttpRequest on the main thread is deprecated because of its detrimental effects to the end user's experience. For more help, check https://xhr.spec.whatwg.org/.
connected index.html:38
Creating Coursetro index.html:105
index.html:111
h _{eth} _{_, transactionHash: null, _{, address:
"0x7ed5102116e09e21641f0282150d37fb0304
_, abi: Array(3), setInstructor:
_, _{, _{}}}
Inside click index.html:142

```

Type here to search

GIFY Reactions Entertainment Sports Stickers Artists Upload Create

Search all the GIFs and Stickers

Source www.reddit.com/r/loading...

Featured Channels NBA MLB Sign with Robert

Trending Tags #yes #happy birthday #love you #thank you #nervous

Create A Gif

Links

- Short Link <https://gph.is/2gESFh>
- A url with a minimal number of characters
- GIF Link <https://media.giphy.com/media/swhRkVYLDrCE/giphy>
- A link to the GIF image itself
- HTML5 Video <https://giphy.com/gifs/swhRkVYLDrCE/html5>
- A video that loads a smaller and faster version of the GIF

Instructor Name George

Instructor Age 60

Update Instructor

The screenshot shows a dual-monitor setup. The left monitor displays the Giphy website at <https://giphy.com/gifs/google-icon-loading-swhRkVYUJDrCE/links>. The right monitor shows a Google Chrome window with the URL <https://cpu85.npu.e...> open, displaying the developer tools' Console tab.

Giphy Search Results:

- Source: www.reddit.com/r/loading...
- Featured Channels:
 - NBA
 - MLB
- Sign with Robert
- Trending Tags:
 - #yes
 - #happy birthday
 - #love you
 - #thank you
 - #nervous
- Create A Gif

Links Panel:

- Short Link: <https://gph.is/2gESFHh> (A url with a minimal number of characters)
- GIF Link: <https://media.giphy.com/media/swhRkVYUJDrCE/giphy> (A link to the GIF image itself)
- HTML5 Video: <https://giphy.com/gifs/swhRkVYUJDrCE/html5> (A video that loads a smaller and faster version of the GIF)

Chrome Developer Tools - Console Tab:

```
Document 2 1 hidden
A cookie associated with index.html[1] was set without the 'SameSite' attribute. A future release of Chrome will only accept cookies from cross-site requests if they are set with 'SameSite=None' and 'Secure'. You can review cookies in the DevTools Storage tab and see more details at https://www.chromestatus.com/feature/5088347446030592 and https://www.chromestatus.com/feature/5699984241540864
[Deprecation] webkit_min.js:1
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"0x6f1d1021166e9e21641f6821510d7fb0304
 abi: Array(3), setInstructor:
_, _)
Inside click index.html:142
>
```