



Learning ECMAScript 6: Moving to the New JavaScript

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Video 2.2

let Versus var Versus const



1x



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0:07 / 3:11

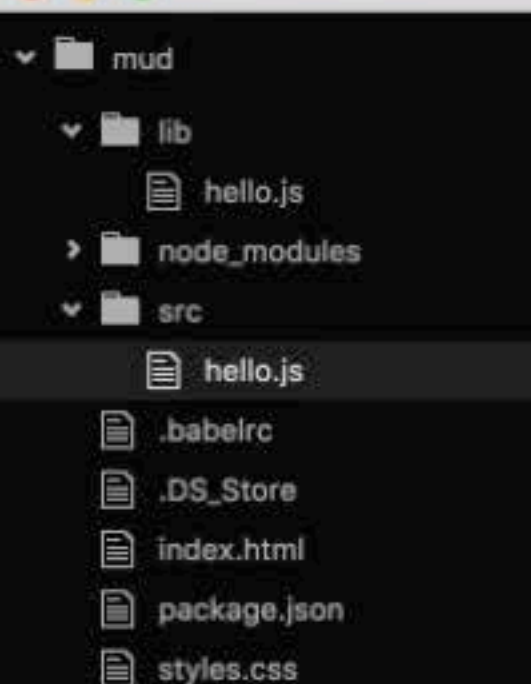


In this Video, we are going to take a look at...

- Variables
 - var
 - let
 - const

Let vs var vs const

```
1  function f() {  
2    {  
3      let x;  
4      {  
5        // okay, block scoped name  
6        const x = "sneaky";  
7        // error, const  
8        x = "foo";  
9      }  
10     // okay, declared with `let`  
11     x = "bar";  
12     // error, already declared in block  
13     let x = "inner";  
14   }  
15 }
```



```

1 function main() {
2   var enterEl = document.querySelector("#enter");
3
4   enterEl.addEventListener("click", onClickEnter, false);
5
6   addToOutput();
7 }
8
9 function addToOutput(newLine="Start your journey now!") {
10   var output = document.querySelector("#output");
11
12   output.innerHTML = output.innerHTML + "<br />" + newLine;
13 }
14
15 function onClickEnter() {
16   var commands = document.querySelector("#commands");
17
18   addToOutput(commands.value)

```

No issues.

File Explorer

- mud
 - lib
 - hello.js
 - node_modules
 - src
 - hello.js
 - .babelrc
 - .DS_Store
 - index.html
 - package.json
 - styles.css

```

9      addToOutput();
10     }
11
12     function addToOutput(newLine=defaultLine) {
13       let output = document.querySelector("#output");
14       let
15       output.innerHTML = output.innerHTML + BR + newLine;
16     }
17
18     function onClickEnter() {
19       var commands = document.querySelector("#commands");
20
21       addToOutput(commands.value)
22     }
23
24     main();
25
26     // ...

```

No issues.

Inspector / Console

File Explorer

- mud
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```

9      addToOutput();
10     }
11
12     function addToOutput(newLine=defaultLine) {
13       let output = document.querySelector("#output");
14
15       output.innerHTML = output.innerHTML + BR + newLine;
16     }
17
18     function onClickEnter() {
19       let commands = document.querySelector("#commands");
20
21       addToOutput(commands.value)
22     }
23
24     main();
25
26     // ...

```

No issues.

Output Console

mud x

MacBook-Pro-van-Joris:mud jorishermans\$ npm run build



mud

lib

hello.js

node_modules

src

hello.js

.babelrc

.DS_Store

index.html

package.json

styles.css

No runnable apps

index.html

hello.js — src

hello.js — lib

```
1  "use strict";
2
3  var defaultLine = "Start your journey now!";
4  var BR = "<br />";
5
6  function main() {
7      var enterEl = document.querySelector("#enter");
8
9      enterEl.addEventListener("click", onClickEnter, false);
10
11     addToOutput();
12 }
13
14 function addToOutput() {
15     var newLine = arguments.length <= 0 || arguments[0] === undefined ? defaultLine : arguments[0];
16
17     var output = document.querySelector("#output");
18
```

No issues. mud x

mud

- lib
 - hello.js
- node_modules
- src
 - hello.js
 - .babelrc
 - .DS_Store
 - index.html
 - package.json
 - styles.css

No runnable apps

index.html | hello.js — src | hello.js — lib

```

1  const defaultLine = "Start your journey now!";
2  const BR = "<br />";
3
4  function main() {
5      let enterEl = document.querySelector("#enter");
6
7      enterEl.addEventListener("click", onClickEnter, false);
8
9      addToOutput();
10 }
11
12 function addToOutput(newLine=defaultLine) {
13     let output = document.querySelector("#output");
14     I
15     BR = "<hr />";
16
17     output.innerHTML = output.innerHTML + BR + newLine;
18 }
    
```

No issues.

mud x

MacBook-Pro-van-Joris:mud jorishermans\$ npm run build

```
> mud@1.0.0 build /projects/es6/mud  
> babel src -d lib
```

18 | }

```
npm ERR! Darwin 15.5.0
npm ERR! argv "/Users/jorishermans/.nvm/versions/node/v4.0.0/bin/node" "/Users/jorishermans/.nvm/versions/node/v4.0.0/bin/npm" "run" "build"
npm ERR! node v4.0.0
npm ERR! npm v2.14.2
npm ERR! code ELIFECYCLE
npm ERR! mud@1.0.0 build: `babel src -d lib`
npm ERR! Exit status 1
npm ERR!
npm ERR! Failed at the mud@1.0.0 build script 'babel src -d lib'.
npm ERR! This is most likely a problem with the mud package,
npm ERR! not with npm itself.
npm ERR! Tell the author that this fails on your system:
npm ERR!   babel src -d lib
npm ERR! You can get their info via:
npm ERR!   npm owner ls mud
npm ERR! There is likely additional logging output above.

npm ERR! Please include the following file with any support request:
npm ERR!   /projects/es6/mud/npm-debug.log
MacBook-Pro-van-Joris:mud jorishermans$
```


Start your journey now!

Submit

Next Video

Using an Arrow