
Import a böngészőben

HWSW meetup

Naggggyon 2014...

index.html

Függőségek sorrendje

click.js

SEAF

Honnan jön ez a 'user'?

```
<html>
  <head>
    <title>2014</title>
    <script src="/user.js"></script>
    <script src="/click.js"></script>
  </head>
  <body>
    <!-- ... -->
  </body>
</html>

(function(window, user){
  var action = 'click';
  var name = user.name

  function click(){
    return name + ' has ' + action + 'ed';
  }

  window.click = click;
})(window, user);
```

Dependency hell

2014



Bundling

1. Browserify
 2. Webpack
 3. Rollup
 4. Parcel
-

common.js

`./user.js`

`./click.js`

`exports`

`app.js`

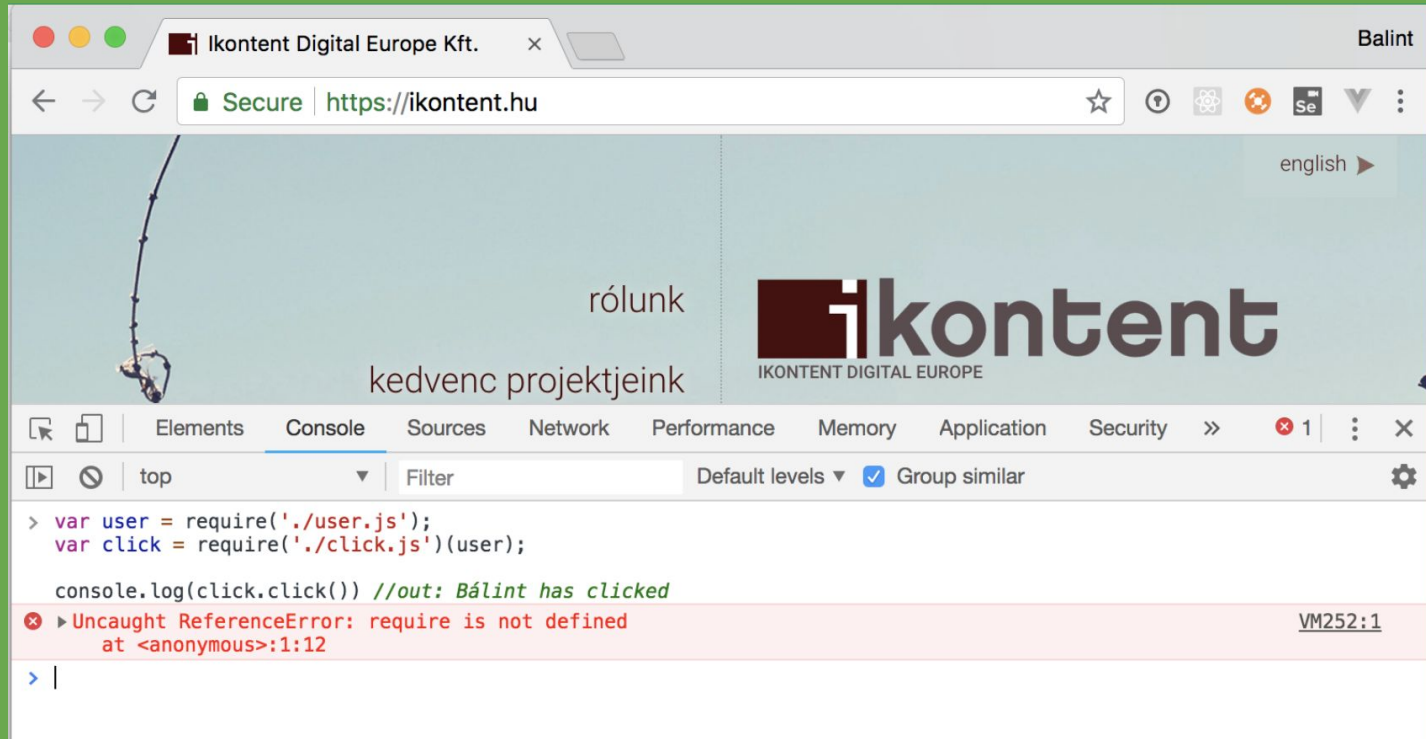
`node app.js`

Bálint has clicked

```
module.exports = {  
  name: "Bálint"  
};
```

```
module.exports = function(user) {  
  var action = 'click'  
  var name = user.name  
  
  function click(){  
    return name + ' has ' + action + 'ed'  
  }  
  
  return {  
    click: click  
  }  
}
```

```
var user = require('./user.js');  
var click = require('./click.js')(user);  
  
console.log(click.click()) //out: Bálint has clicked
```



Lássuk ezt a böngészőben....

2016, Bundle

index.html

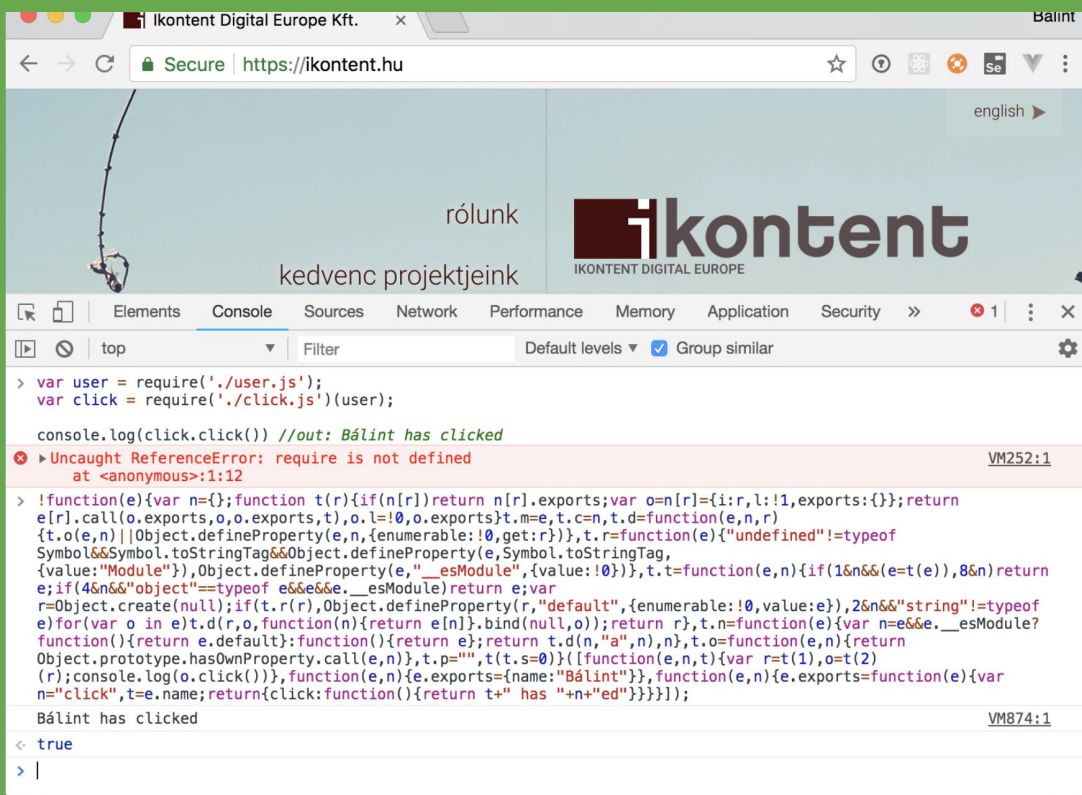
Csak egy fájl

dist/bundle.js

ismerős?

```
<html>
  <head>
    <title>2016</title>
    <script src="/build/bundle.js"></script>
  </head>
  <body>
    <!-- ... -->
  </body>
</html>
```

```
!function(e){var n={};function t(r){if(n[r])return n[r].exports;var o=n[r]=
={i:r,l:1,exports:{}};return e[r].call(o.exports,o,o.exports,t),o.l=!0,
o.exports}t.m=e,t.c=n,t.d=function(e,n,r){t.o(e,n)||Object.defineProperty
(e,n,{enumerable:!0,get:r})},t.r=function(e){"undefined"!==typeof Symbol&&
Symbol.toStringTag&&Object.defineProperty(e,Symbol.toStringTag,{
value:"Module"}),Object.defineProperty(e,"__esModule",{value:!0})},
t.t=function(e,n){if(1&&(e===t(e)),8&n)return e;if(4&n&&"object"===typeof
e&&e.__esModule)return e;var r=Object.create(null);if(t.r(r),
Object.defineProperty(r,"default",{enumerable:!0,value:e}),2&n&&
"string"!==typeof e)for(var o in e)t.d(r,o,function(n){return e[n]}.bind
(null,o));return r},t.n=function(e){var n=e&&e.__esModule?function()
{return e.default}:function(){return e};return t.d(n,"a",n),n},
t.o=function(e,n){return Object.prototype.hasOwnProperty.call(e,n)},
t.p="",t(t.s=0)}([function(e,n,t){var r=t(1),o=t(2)(r);console.log(o.click
()),function(e,n){e.exports={name:"Bálint"}},function(e,n)
{e.exports=function(e){var n="click",t=e.name;return{click:function()
{return t+" has "+n+"ed"}}}}]);
```



Heuréka

Import

1. Rövid és deklaratív
2. aszinkron

Import példa

lib.js

Nevesített export

```
export const sqrt = Math.sqrt;  
export function square(x) {  
  return x * x;  
}  
export function diag(x, y) {  
  return sqrt(square(x) + square(y));  
}
```

app.js

Nevesített import

```
import { square, diag } from './lib';  
console.log(square(11)); // 121  
console.log(diag(4, 3)); // 5
```

import

./user.js

./click.js

exports

app.js

node app.js

Bálint has clicked

```
export default {  
  name: "Bálint"  
}
```

```
export default (user) => {  
  var action = 'click'  
  var name = user.name  
  
  function click(){  
    return name + ' has ' + action + 'ed'  
  }  
  
  return {  
    click: click  
  }  
}
```

```
import user from './user.js';  
import click from './click.js';  
  
const clicker = click(user)  
document.body.innerHTML = clicker.click()
```

2018 Import x Balint

localhost:5000

Bálint has clicked

Elements

```
<html>
<head>
  <title>2018 Import</title>
  ... <script src="app.js" type="module"></script> == $0
</head>
<body>Bálint has clicked</body>
</html>
```

Network

View: [Icons] [] Group by frame [] Preserve log [x] Disable cache [] Offline On

Filter [] Hide data URLs

All | XHR | JS | CSS | Img | Media | Font | Doc | WS | Manifest | Other

20 ms 40 ms 60 ms 80 ms 100 ms

Name	Status	Type	Initiator	Size	Time	Waterfall
app.js	200	script	(index)	432 B	6 ms	[Waterfall bar]
click.js	200	script	app.js:2	472 B	9 ms	[Waterfall bar]
user.js	200	script	app.js:1	309 B	8 ms	[Waterfall bar]

3 / 4 requests | 1.2 KB / 1.6 KB transferred | Finish: 68 ms | DOMContentLoaded: 73 ms | Load: 77 ms



(Ne) próbáld ki otthon

1. `serve` csomag: a `file://` nem működik CORS miatt
 2. `type="module"`
-

köszönöm

Séra Bálint

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