Reactin lyhyt oppimäärä

koko **koodi101**-kurssi yhdessä slides-esityksessä

Mikä ihmeen JavaScript

Python

```
# variables
     a = 1
     b = 2
     def sum(x, y):
         return x + y
     # printing
     print("hello world")
     # lists
     list = []
     list.append("kana") # list would be: ["kana"]
     # lists
17
     greetings = [
         'Hello',
         'Hi',
         'Bye',
          'Goodbye'
```

JavaScript

```
// variables
     let a = 1
     const b = 2
 6 \vee function sum(x, y) {
         return x + v
     // printing
     console.log("hello world")
     let list = []
     list.push("kana") // list would be: ["kana"]
17
18 ∨ let greetings = [
         'Hello',
         'Hi',
         'Bye',
         'Goodbye'
```

Listat

Python

```
# lists
17
     greetings = [
          'Hello',
          'Hi',
21
          'Bye',
22
          'Goodbye'
23
25
     # iterate over every single one
     for greeting in greetings:
         print(greeting)
     prints:
         Hello
         Bye
         Goodbye
```

JavaScript

```
// lists
18 ∨ let greetings = [
         'Hello',
          'Hi',
          'Bye',
21
          'Goodbye'
22
23
     // iterate over every single one
26 ∨ greetings.forEach( function(greeting) {
         console.log(greeting)
27
     })
     prints:
         Hello
         Bye
         Goodbye
34
```

Listojen muuttaminen

```
Python

37  # add "!" to every greeting

38  for i in range(len(greetings)):

39   greetings[i] = greetings[i] + "!"

40

41

42  print(greetings) # greetings is now ["Hello!", "Hi!", ...]
```

Listojen muuttaminen

```
JavaScript

// add "!" to every greeting

for (let i = 0; i < greetings.length; i++) {

greetings[i] = greetings[i] + "!"

}

console.log(greetings); // greetings is now ["Hello!", "Hi!", ...]</pre>
```

.map()

```
JavaScript

44  // add "!" to every greeting with map

45  let better_greetings = greetings.map( function(greeting) {

46     return (greeting + "!")

47  })

48

49  console.log(better_greetings)
```

HTML

Suomalaisittain "hötömölö"

HTML:n perusteet

HTML

```
<body>
         <h1>Hello World</h1>
10
         you can format webpages with html
11
12
     </body>
```

O 127.0.0.1:5500/notes.html







Hello World

you can format webpages with html









HTML:n muokkaaminen

```
// you can modify webpage with JavaScript
let header = document.createElement('h1');
header.textContent = "Hello from JavaScript";

document.appendChild(header);
```

Ongelma?

Ratkaisu ongelmaa: React

```
function App() {
    return (
        <h1>Hello From React</h1>
```

hötömölöä ja javascriptiä

```
function Variable() {
          let kana = "kissa"
 8
          return (
              <h1>{kana}</h1>
10
11
12
```

palautetaan elementtejä

```
33 \vee function HelloElement() {
          return <h1>Hello World</h1>
34
35
36
37 \sim function App() {
          return <HelloElement />
38
```

palautetaan lista hötömölöä

```
14 ∨ function Greetings() {
15 ×
         let greetings = [
16
             'Hello',
             'Hi',
17
18
              'Bye',
19
             'Goodbye'
20
21
22
         return (
23 ∨
             <>
24
25 ~
                     greetings.map( function(greeting) {
                         return {greeting}
26
                      })
27
28
29
30
31
```

Hello

Ηi

Bye

Goodbye