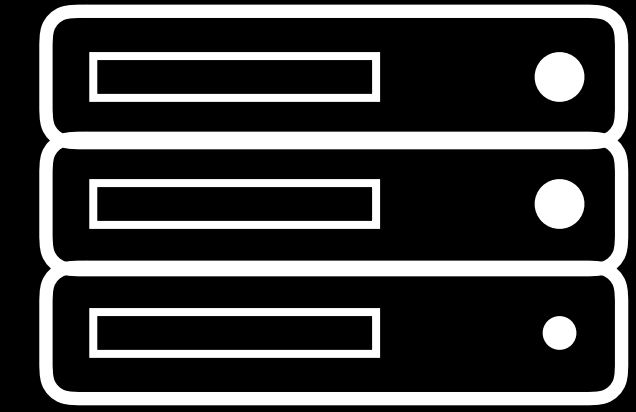


Web Programming with Python and JavaScript

Server



Client



JavaScript

ES6

JavaScript in a Web Page

```
<script>  
    alert('Hello, world!');  
</script>
```

Functions

```
function hello() {  
    alert('Hello, world!');  
}
```

Events

- `onclick`
- `onmouseover`
- `onkeydown`
- `onkeyup`
- `onload`
- `onblur`
- ...

querySelector

- `document.querySelector('tag')`
- `document.querySelector('#id')`
- `document.querySelector('.class')`

Variables

- `const`
- `let`
- `var`

Arrow Functions

```
() => {  
    alert('Hello, world!');  
}
```

Arrow Functions

```
x => {  
    alert(x);  
}
```

Arrow Functions

`x => x * 2`

Higher-Order Functions

Local Storage

Local Storage

- `localStorage.getItem(key)`
- `localStorage.setItem(key)`

Ajax

Ajax

```
const request = new XMLHttpRequest();
request.open(method, url);

request.onload = function() {
    // do something with request.responseText
};

const data = new FormData();
data.append(key, value);
request.send(data);
```

Socket.IO

Socket.IO

- on
- emit
- Rooms

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