Web Programming with Python and JavaScript

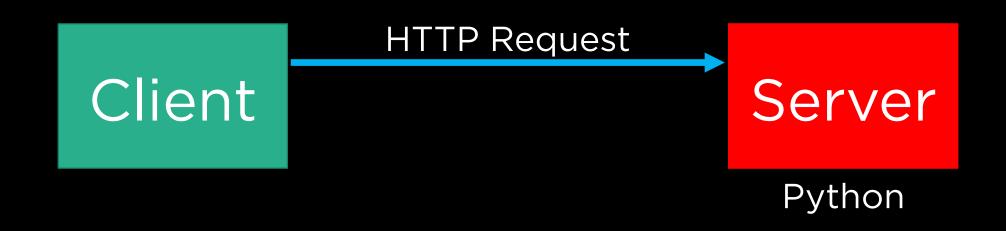
Lecture 5: JavaScript

July 12, 2018

Client

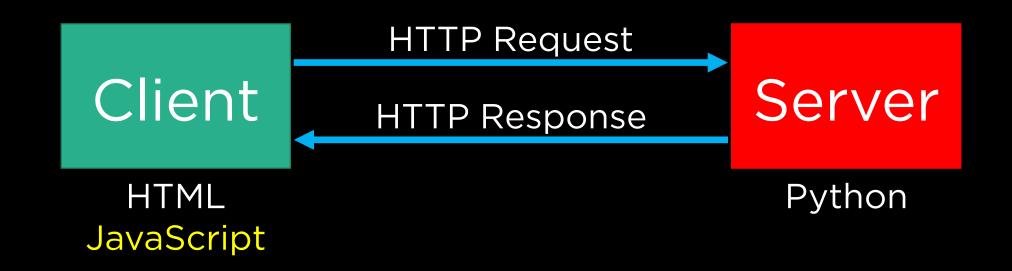
Server

Client HTTP Request Server









JavaScript

JavaScript ES6

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

Functions

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

Functions

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

Events

- onclick
- onmouseover
- onkeydown
- onkeyup
- onload
- onblur

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Query Selector

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

Ways to Define Variables

- const
- •let
- var

Arrow Functions

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

Arrow Functions

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

Arrow Functions

$$x => x * 2;$$

Higher-Order Functions

Higher-Order Functions

(aka passing functions as arguments to other functions)

Local Storage

Using Local Storage

- localStorage.getItem(key);
- •localStorage.setItem(key, value);

Ajax

Ajax Example

```
const request = new XMLHttpRequest();
request.open(method, url);
request.onload = function() {
    // do something
};
const data = new FormData();
data.append(key, value);
request.send(data);
```

Socket.IO

Socket.IO

- on
- emit