

Ajax!

Asynchronous JavaScript and XML

- used to be an acronym
- now a technique

Why Ajax?

Why Ajax?

"Single Page Applications"

Postman, again

(demooooooh)

HTTP Status code ranges

- 2xx Success
- 3xx Redirection
- 4xx Client error
- 5xx Server error

[Wikipedia List of HTTP status codes](#)

HTTP Status code 418

google.com/teapot

HTTP Verbs

- GET
- POST
- PUT
- DELETE
- PATCH

REST(ful) Services

- POST: Create
- GET: Read
- PUT/PATCH: Update
- DELETE: Delete

Others

- JSON API
- GraphQL

cool! how do I use it?

```

function sendRequest(url,callback,postData) {
    var req = createXMLHTTPObject();
    if (!req) return;
    var method = (postData) ? "POST" : "GET";
    req.open(method,url,true);
    req.setRequestHeader('User-Agent','XMLHTTP/1.0');
    if (postData)
        req.setRequestHeader('Content-type','application/x-www-form-urlencoded');
    req.onreadystatechange = function () {
        if (req.readyState != 4) return;
        if (req.status != 200 && req.status != 304) {
            return;
        }
        callback(req);
    }
    if (req.readyState == 4) return;
    req.send(postData);
}

```

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    req.send(postData);
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```

Just kidding!

Ajax with jQuery

\$.get

```
var URL = 'http://dc-coffeerun.herokuapp.com/api/coffeeorders';  
$.get(URL)
```

\$.get(callback)

```
var URL = 'http://dc-coffeerun.herokuapp.com/api/coffeeorders';  
$.get(URL, function (data) {  
    console.log(data);  
});
```


\$.get(callback)

```
function storeData(orders) {  
  localStorage.setItem('coffeeOrders', JSON.stringify(orders));  
}
```

```
var URL = 'http://dc-coffeerun.herokuapp.com/api/coffeeorders';  
$.get(URL, storeData);
```

\$.post(data)

```
var URL = 'http://dc-coffeerun.herokuapp.com/api/coffeeorders';  
var myData = {  
  coffeeOrder: 'espresso',  
  emailAddress: 'chris.aquino@gmail.com'  
}  
$.post(URL, myData);
```

\$.post(data, fn)

```
var URL = 'http://dc-coffeerun.herokuapp.com/api/coffeeorders';
var myData = {
  coffeeOrder: 'espresso',
  emailAddress: 'chris.aquino@gmail.com'
}
$.post(URL, myData, function (resp) {
  console.log(resp);
});
```