

Title Lorem Ipsum

01

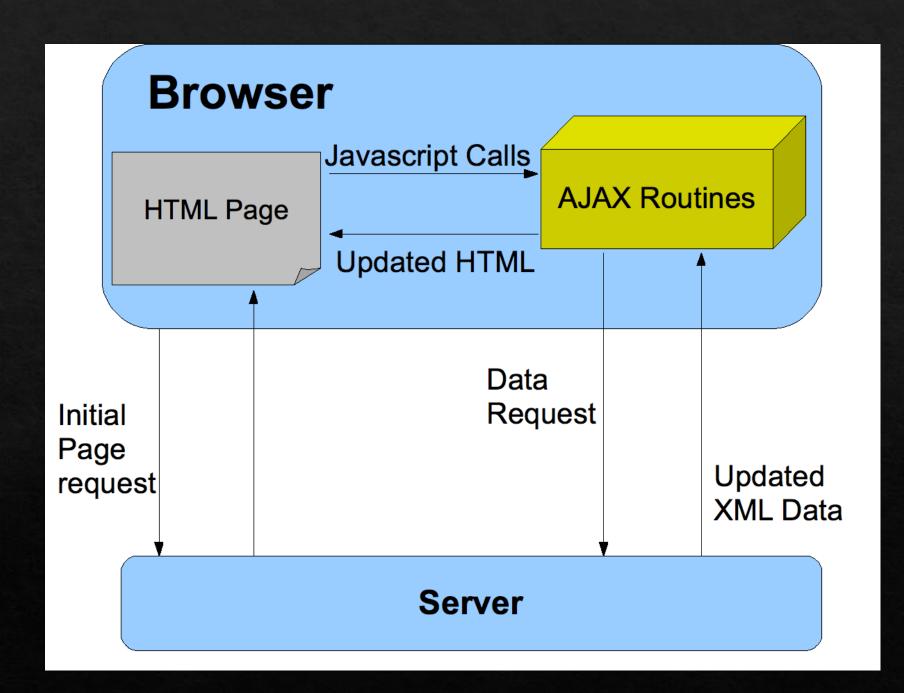
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02

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AJAX – Chapter 8 Sample Files





← → C i view-source:D:/!Courses/322_257/!BOOK/Chapter08/c08/data-html.html

```
<!DOCTYPE html>
                                        data-html.html
  <html>
    <head>
      <meta charset="UTF-8">
      <title>JavaScript &amp; jQuery - Chapter 8: Ajax &amp; JSON - Loading HTM
      <link rel="stylesheet" href="css/c08.css" />
    </head>
    <body>
      <header><h1>THE MAKER BUS</h1></header>
10
      <h2>The bus stops here.</h2>
11
      <section id="content"></section>
13
      <script src="js/data-html.js"></script>
14
15
    </body>
16
  </html>
```



← → C ① File D:/!Courses/322_257/!BOOK/Chapter08/c08/js/data-html.js

```
// NOTE: If you run this file locally
// You will not get a server status and the example will fail
// Comment out lines 9 and 11 if you are working locally
                                              // Create XMLHttpRequest object
var xhr = new XMLHttpRequest();
                                              // When response has loaded
xhr.onload = function() {
  // The following conditional check will not work locally - only on a server
                              // If server status was ok
  if(xhr.status === 200) {
   document.getElementById('content').innerHTML = xhr.responseText; // Update
xhr.open('GET', 'data/data.html', true);
                                               // Prepare the request
xhr.send(null);
                                               // Send the request
```

















Local file (no server)

The bus stops here.











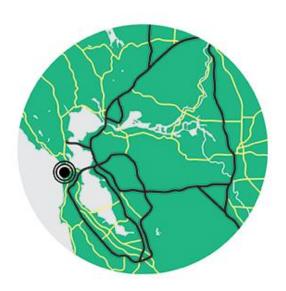




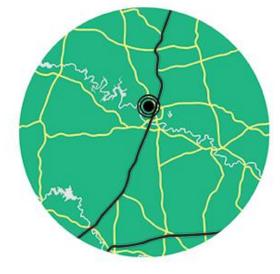


hosted file (web server)

The bus stops here.



San Francisco, CA May 1



Austin, TX May 15



New York, NY May 30

The Difference? Local File Access

html file (data/data.html)

Data-html.html could not access another folder and pass info back and forth using Finder or File Explorer.

AJAX is a client/server request. So datahtml.html is loaded, and the AJAX request is called through the JavaScript file:

xhr.open('GET', 'data/data.html', true);
xhr.send(null);

```
← → C i view-source:D:/!Courses/322_257/!BOOK/Chapter08/c08/data/data.html
```

The Difference? Local File Access

XML file (data/data.xml)

Same file (data-html.html) but it points instead to an XML file

(Extensible Markup Language)

xhr.open('GET', 'data/data.xml', true);
xhr.send(null);

```
← → C sile:///D:/!Courses/322_257/!BOOK/Chapter08/c08/data/data.xml
```

```
<?xml version="1.0" encoding="utf-8" ?>
<events>
  <event>
   <location>San Francisco, CA</location>
   <date>May 1</date>
    <map>img/map-ca.png</map>
  </event>
  <event>
   <location>Austin, TX</location>
   <date>May 15</date>
    <map>img/map-tx.png</map>
  </event>
  <event>
   <location>New York, NY</location>
   <date>May 30</date>
    <map>img/map-ny.png</map>
  </event>
</events>
```

XML Tags Describe the Data they Contain

← → C ⑤ file:///D:/!Courses/322_257/!BOOK/Chapter08/c08/data/data.xml

```
<?xml version="1.0" encoding="utf-8" ?>
<events>
 <event>
   <location>San Francisco, CA</location>
   <date>May 1</date>
   <map>img/map-ca.png</map>
 </event>
 <event>
   <location>Austin, TX</location>
   <date>May 15</date>
   <map>img/map-tx.png</map>
 </event>
 <event>
   <location>New York, NY</location>
   <date>May 30</date>
   <map>img/map-ny.png</map>
 </event>
</events>
```

The Difference? Local File Access

XML file (data/data.xml)

Same file (data-html.html) but it points instead to an JSON file

(JavaScript Object Notation)

xhr.open('GET', 'data/data. json', true);
xhr.send(null);

```
i File D:/!Courses/322_257/!BOOK/Chapter08/c08/data/data.json
"events": [
    "location": "San Francisco, CA",
    "date": "May 1",
    "map": "img/map-ca.png"
    "location": "Austin, TX",
    "date": "May 15",
    "map": "img/map-tx.png"
    "location": "New York, NY",
    "date": "May 30",
    "map": "img/map-ny.png"
```

Don't Be Deceived... It's Just Text (for now)

- Do pay attention to the structure
- Text organizes String into Data set, using Key:Value Pairs
- ♦ Key on the left are repeated data elements that are matched with unique values, ie
- "location": "San Franciso, CA", "days", 21
- Left side is Always in Dbl Quotes
- Right side in quotes if value is String
- Quotes NOT require if VALUE is num's

```
D:/!Courses/322_257/!BOOK/Chapter08/c08/data/data.json
"events": [
    "location": "San Francisco, CA",
    "date": "May 1",
    "map": "img/map-ca.png"
    "location": "Austin, TX",
    "date": "May 15",
    "map": "img/map-tx.png"
    "location": "New York, NY",
    "date": "May 30",
    "map": "img/map-ny.png"
```