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**FEWD**

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# HOW TO PULL IN DATA

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# AJAX

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## WHAT

Asynchronous JavaScript And XML

## HOW

Requests data from a server, uses JS to display data

## Browser

An event occurs...

- Create an XMLHttpRequest object
- Send HttpRequest

Internet

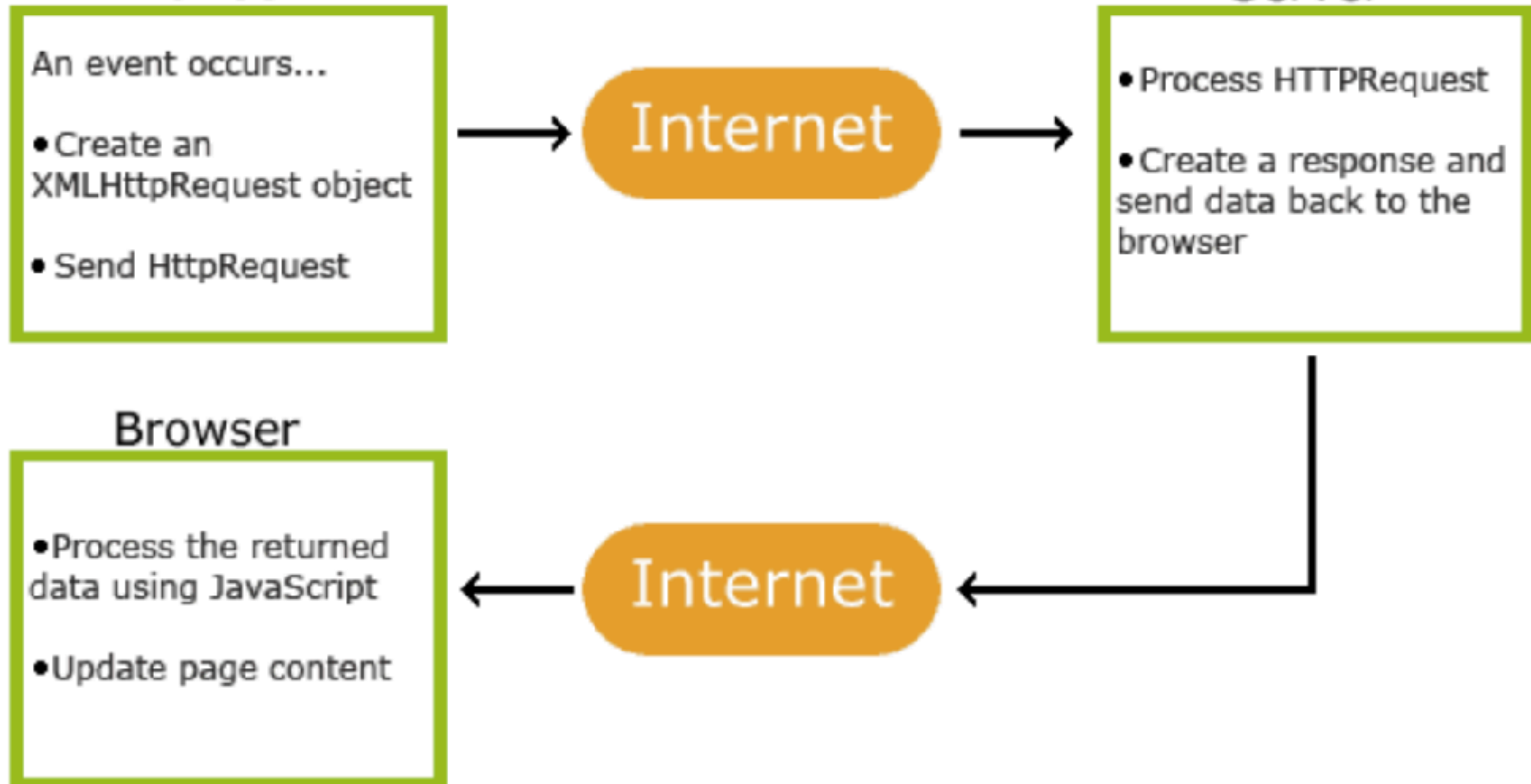
## Server

- Process HTTPRequest
- Create a response and send data back to the browser

## Browser

- Process the returned data using JavaScript
- Update page content

Internet



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# AJAX

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1. An event occurs in a web page (the page is loaded, a button is clicked)
2. An XMLHttpRequest object is created by JavaScript
3. The XMLHttpRequest object sends a request to a web server
4. The server processes the request
5. The server sends a response back to the web page
6. The response is read by JavaScript
7. Proper action (like page update) is performed by JavaScript

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## **WHAT IS XMLHTTPREQUEST?**

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## **HOW DO THEY WORK TOGETHER?**

- ▶ **With the jQuery AJAX methods, you can request text, HTML, XML, or JSON from a remote server and load the external data directly into the selected HTML elements of your web page!**

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**FEWD**

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# WHAT ABOUT JQUERY AND AJAX?

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## AJAX AND JQUERY

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### HOW DO THEY WORK TOGETHER?

- ▶ **With the jQuery AJAX methods, you can request text, HTML, XML, or JSON from a remote server and load the external data directly into the selected HTML elements of your web page!**

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## AJAX AND JQUERY

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```
$.ajax({  
    type: "POST, PUT, GET, or DELETE",  
    url: "your endpoint here",  
    data: { //Key value pairs of data here },  
    success: function(data, textStatus, jqXHR) { },  
    error: function(jqXHR, textStatus, errorThrown) { }  
});
```



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**IN WHAT FORMAT IS THE DATA RECEIVED OR SENT?**

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ANSWER: JSON

WHAT IS JSON: A data type comprised of key-value pairs

# JSON

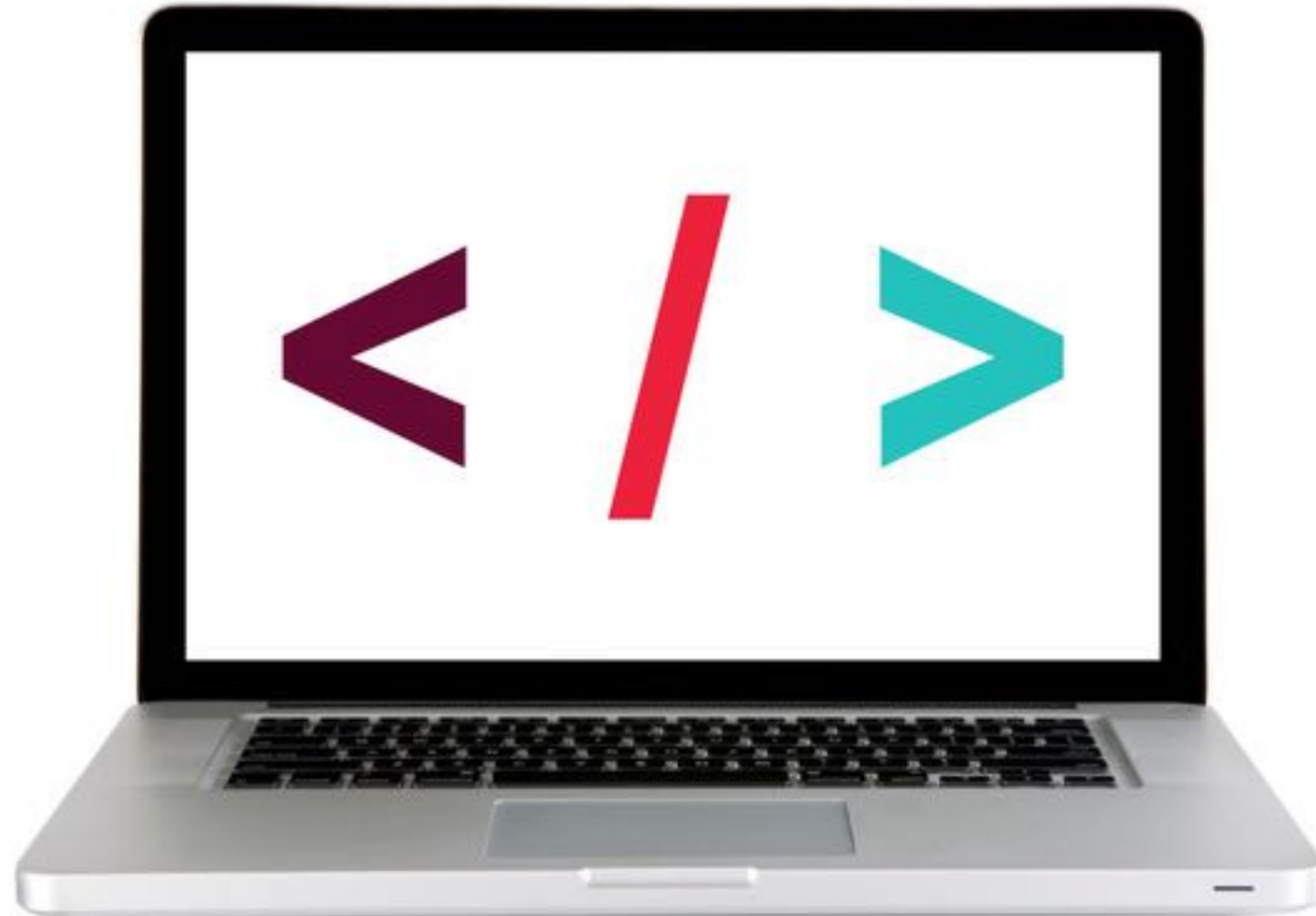
---

```
var userInfo = {  
    firstname: "Mel",  
    lastname: "Serra",  
    role: "Instructor",  
    pets: [  
        {  
            name: "Fido",  
            type: "Dog",  
            favorite_toy: "Tennis ball",  
            age: 7  
        },  
        {  
            name: "Kitty",  
            type: "Cat",  
            favorite_toy: "Feather on a stick",  
            age: 3  
        }  
    ],  
    favorite_number: 10  
};
```

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## LET'S TAKE A CLOSER LOOK

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# ACTIVITY

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**KEY OBJECTIVE**

**COME UP WITH AN ANALOGY**

**TIMING**

**5-10 MINUTES**

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# ACTIVITY

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**FINAL PROJECTS!!!**

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# PRESENTATIONS

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# GUIDELINES

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Walk us through your site!

- Tell us about the features
- Describe the functionality
- How did you accomplish what you accomplished?
- What is the ultimate goal of the site?
- Is your design responsive? Show us!

Talk about your process

- What was tricky?
- What are you especially excited about being able to accomplish?
- Are there any known bugs or features you'd like to add in the future?

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# EXIT TICKETS