# Ajax

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## Asynchronous JavaScript and XML

### Asynchronous

 Makes requests in the background, without interfering with the current page

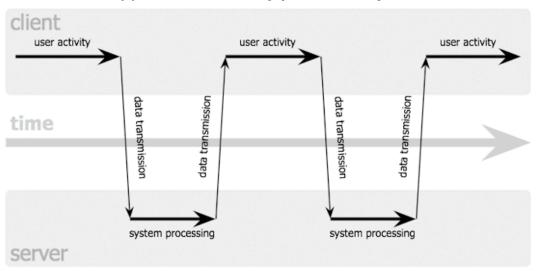
### ◆ JavaScript

 Used to initiate the back ground request and process the response

### XML

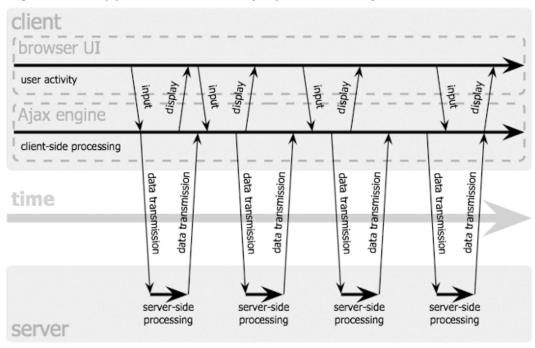
 The format of the data that is returned from the server. This is in contrast to the typical html page that is returned from a normal request

#### classic web application model (synchronous)



#### Ajax web application model (asynchronous)

Jesse James Garrett / adaptivepath.com



## Why?

- Allows you to load content without reloading the entire page
- You can fetch new content based on user input
- Perform long running tasks in the background

### How?

- XMLHttpRequest
- "a DOM API that can be used by JavaScript and other web browser scripting languages to transfer XML and other text data between a web server and a browser." – wikipedia
- DOM stands for Document Object Model; it defines an API for interacting with elements of an HTML or XML page

## example

## the easy way.

- There are many JavaScript frameworks available that hide the details of XMLHttpRequest.
- Prototype

```
new Ajax.Request('/some_url', { method:'get' });
```

YUI (yahoo! user interface)

```
YAHOO.util.Connect.asyncRequest('GET', sUrl, callback);
```

jQuery

```
$.get("test.php");
```