Java Script Libraries



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What is JavaScript?

- The JavaScript code is executed within the scope of the web browser.
- JavaScript is an object oriented programming language with functional programming capabilities.

Sample

Sample

```
function sum(numA,numB)
{
    return numA+numB;
}
```

Sample

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E\dede\mydemo.html	C E:\dede\mydemo.html ×	6) 12 😳

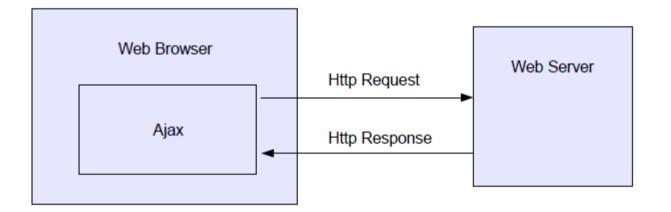
bla bla





Ajax

• We can develop JavaScript code that perform the HTTP interaction with the server side.



DOM

• The JavaScript programming language allows us to interact with the web page DOM and even change it.

CSS

 CSS files are responsible for the look & feel of our web site. We can use Java Script to introduce changes in the look & feel CSS properties.



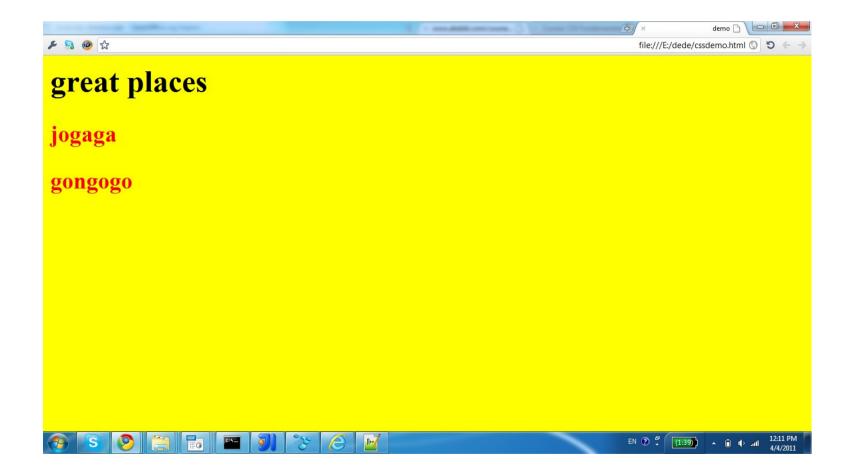
body {background-color:yellow}
h2 {color:red}

simple.css



```
<html>
<head>
<title>demo</title>
<link rel="stylesheet" type="text/css" href="simple.css"/>
</head>
<body>
<h1>great places</h1>
<h2>jogaga</h2>
<h2>gongogo</h2>
</body>
</html>
```





HTML5

 HTML5 new coming standard is mainly about JavaScript. The new coming HTML5 specification defines various JavaScript APIs for performing various useful operations.

JavaScript Libraries

- The web browsers differs in their support for executing JavaScript.
- The result was the emergence of various JavaScript libraries that ease our development process and provide a solution for the web browsers differentiation.

The jQuery Library

• This library allows us to develop cross platform user interface compatible with most available web browsers.



The jQuery Library

Basic dialog	
	-
This is the default dialog	
which is useful for	
displaying information. The	
dialog window can be	
moved, resized and closed	-
with the 'x' icon.	-



Nunc tincidunt Proin dolor Aenean lacinia

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The jQuery Mobile Library

- The jQueryMobile is a JavaScript library that enables the creation of unified GUI components across most mobile telephones web browsers, includin iPhone, android, Black Berry and others.
- The jQueryMobile library is an open source project. It uses the jQuery library.



The MooTools Library

• This library is known as the JavaScript programming language extension.

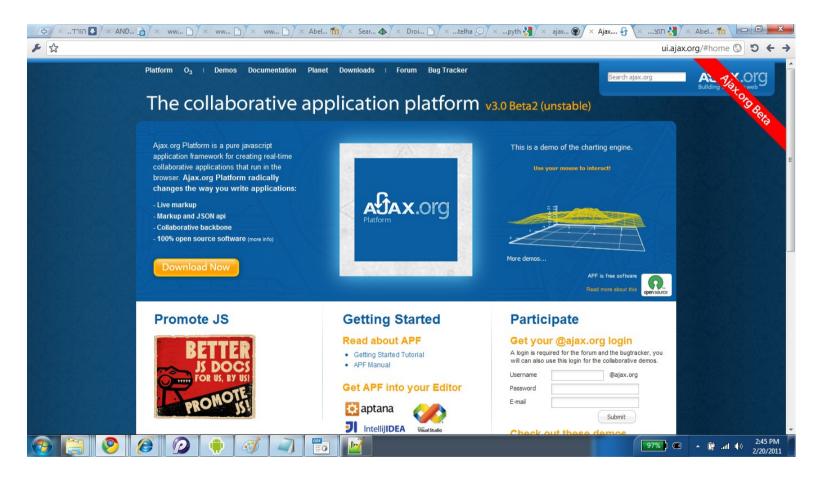
The MooTools Library

```
<script type="text/javascript" src="mootools-core-1.3-full-</pre>
compat.js"></script>
<script type="text/javascript">
var Rectangle = new Class({
// properties
width: 0,
height: 0,
// methods
initialize: function(wVal, hVal)
    this.width = wVal;
    this.height = hVal;
},
details: function()
{
    alert("width=" + this.width + " height=" + this.height);
},
});
var rec = new Rectangle(5,4);
rec.details();
</script>
```

The ajax.org Library

• This library is known for its various capabilities and especially the one that allows us to develop 3D rich charts models.

The ajax.org Library

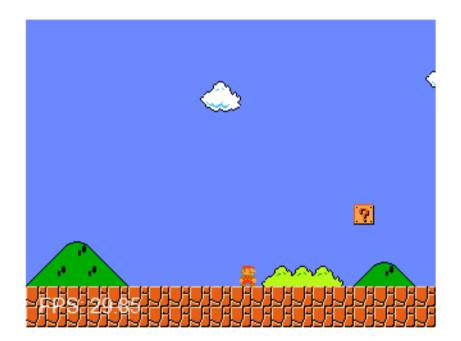


http://ui.ajax.org/#home

Coco2SD

- The Cocos2d-javascript is a 2D game/graphics engine based on cocos2d-iphone designed to run in a web browser.
- Cocos2D-javascript uses HTML 5 for creating 2D graphics without the need for plug-ins such as Adobe Flash.

Coco2SD



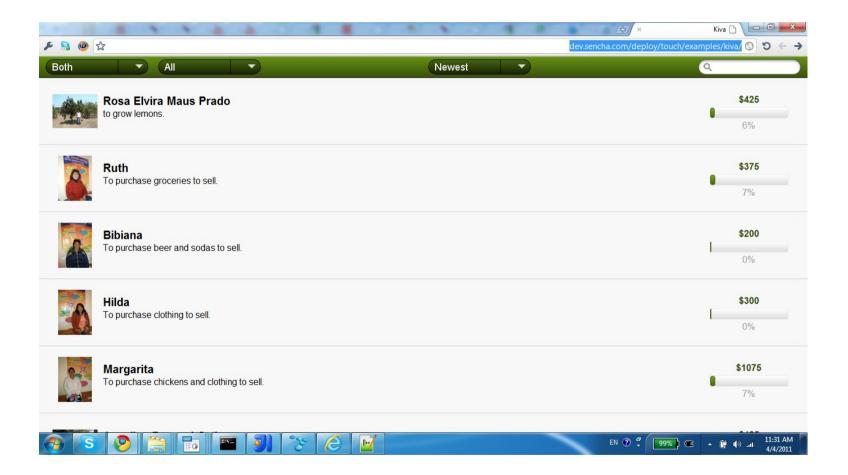
http://cocos2d-javascript.org/about

Sencha Touch

 The Sencha Touch JavaScript library allows us to develop mobile web applications that look and feel like native iPhone, Android and BlackBerry applications.

http://www.sencha.com/products/touch/

Sencha Touch



http://dev.sencha.com/deploy/touch/examples/kiva/

Sencha CSS3 Animator

 The Sencha CSS3 Animator enables us to create rich animations based on CSS3 and JavaScript.
 http://www.sencha.com/products/animator/demos/

Sencha CSS3 Animator



http://dev.sencha.com/animator/demos/cogs/