



MAX

Learn to Build a Desktop Application using HTML, CSS, JavaScript and Adobe AIR

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<http://groups.google.com/group/air-html-js/>



Monday, October 25, 2010



Nashville
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where *design* & *DEV* meet

RIAForge



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Adobe MAX 2010 Lab Evaluation 463

Lab Date/Time: 10-25-2010 05:00PM

Lab Name: Learn to Build a Desktop Application using HTML, CSS, JavaScript and Adobe AIR

To participate in the gift giveaway, please print your Badge ID and contact information in the area below

My MAX 2010 Badge ID Number is: _____

If you are the selected winner, we will contact you at the email address noted below.

Email Address: _____

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Please complete the ratings and questions below.

ABOUT YOU

I am a: (choose one)

☐ Designer

☐ Designer/Developer

☐ Developer

☐ Developer/Designer

☐ Business Strategist

☐ Solution Provider

Introduction: BYOL Evaluation Form



	Excellent	Above Average	Average	Below Average	Poor
Overall lab evaluation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Information presented	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lab material well organized	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lab handouts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lab content matched title and description	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lab was at the educational level I needed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would recommend this lab to my peers	<input type="radio"/>	Yes	<input type="radio"/>	No	
This lab met my expectations	<input type="radio"/>	Yes	<input type="radio"/>	No	
The lab offered me an opportunity to learn	Yes	Minimally	No		
New Adobe products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Advanced skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Best practices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Case studies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
New approaches	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
New concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		



- Adobe AIR is a runtime that lets developers combine HTML, Ajax, Adobe Flash®, and Flex technologies to deploy Rich Internet Applications on the desktop as a single app installer that works across operating systems.
- jQuery is a fast and concise JavaScript Library that simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development.
- WebKit is a layout engine designed to allow web browsers to render web pages.



- Don't choose, do both!



Introduction: Why Choose JavaScript over Flash/Flex?



- Not everyone knows Flex or Flash
- HTML knowledge at varying levels is ubiquitous
- To develop in HTML / Javascript, all you need is a text editor and a browser.
- Availability of high quality free software, such as the Aptana Eclipse plugin, for HTML / JavaScript development makes it a good choice.
- Most importantly, transfer of skillset means smooth transition to AIR development.



jQuery is a fast and concise JavaScript Library that simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development. – jQuery.com

- First announced at BarCampNYC Jan 2006
- Version 1.0 released in August 2006
- Version 1.3.2 released in February 2009
- Version 1.4.2 released in February 2010
- Currently used by Google, Dell, Bank of America, Major League Baseball, Digg, NBC, CBS News, Netflix, Technorati, Mozilla, Wordpress, and many other sites

http://docs.jquery.com/History_of_jQuery



How does jQuery work?

At its most basic jQuery provides a way to interact with elements on an HTML page.

Selectors

Events

Effects

Selectors - Without them jQuery is useless.



Flickr - [kseedIV](#)

Events - Without them apps would do nothing.



Effects – Animation isn't just for Flash.



Flickr - buddythunder



Let's check out some code
code\intro-jquery



ADOBE® AIR™

Adobe AIR is a runtime that lets developers combine HTML, Ajax, Adobe Flash®, and Flex technologies to deploy Rich Internet Applications on the desktop as a single app installer that works across operating systems.
– Adobe.com

First released March 2007 as Apollo for OSX and Windows

- Renamed to AIR in June 2007, public beta released
- Version 1.0 released in Feb 2008
- Version 1.5 released in Feb 2009
- Version 2.0 released in Jun 2010
- As of Jun 2010, over 300 million installs worldwide

http://en.wikipedia.org/wiki/Adobe_Integrated_Runtime



ADOBE® AIR™

Writing to the File System

```
// very simple, with a few lines of code
var fs = new air.FileStream();

// determines where the file is stored, and opens a reference to this file
var settings = air.File.applicationStorageDirectory.resolvePath('settings.txt');

// create object to be written to the file system
var settingsObj = {};
settingsObj['color'] = 'blue';
settingsObj['shape'] = 'circle';

// open the file for writing
fs.open(settings, air.FileMode.WRITE);

// write to the contents of the file
fs.writeObject(settingsObj);

// close the file
fs.close();
```



ADOBE® AIR™

Writing a record to SQLite

```
// determines where the file is stored, and opens a reference to this file
var dbFile = air.File.applicationStorageDirectory.resolvePath('app.sqlite');

var db = new air.SQLiteConnection();

try {
    db.open(dbFile);
    // initiates a new SQL statement, and assigns the db connection to it
    dbQuery = new air.SQLiteStatement();
    dbQuery.sqlConnection = db;
    dbQuery.text = 'SELECT id, url, longurl FROM urls ORDER BY id';
    // executes the statement, retrieves result
    dbQuery.execute();
    results = dbQuery.getResult();
} catch (error) {
    air.trace('error opening db file');
    air.trace('DB error:', error.message);
    air.trace('Details:', error.details);
}
```



ADOBE® AIR™

Using the AIR Introspector

// first, include the AIR Introspector file

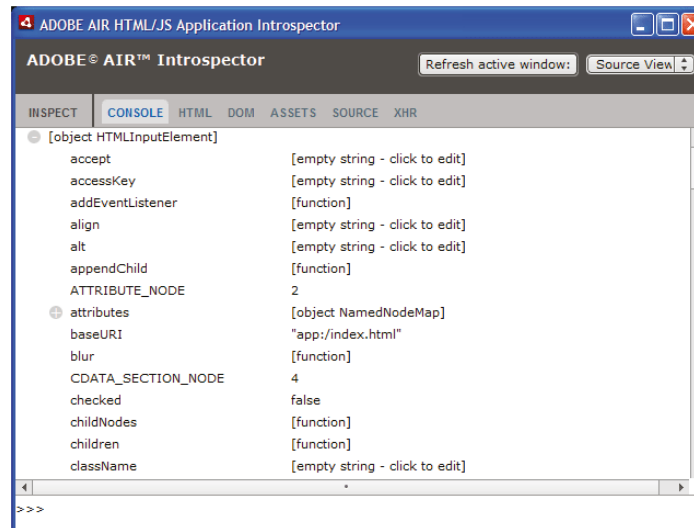
```
<script type="text/javascript" src="lib/air/AIRIntrospector.js" />
```

// log a string, or variable

```
air.Introspector.Console.log('opening file now'); air.Introspector.Console.log  
(someVariable);
```

// Also available

```
.info(), .error(), .warn()
```





CSS 3 @font-face

```
// define the font, and it's url
@font-face { font-family: Delicious; src: url('Delicious-Roman.otf'); }

// then use the font "name" like you would a variable
h1, h2, h3 { font-family: Delicious, sans-serif; }
```

CSS 3 Gradients

```
// inside a style declaration
background: -webkit-gradient(linear, 0% 0%, 0% 100%, from(#eee), to(#999));
```

CSS 3 Drop Shadow

```
// inside a style declaration
-webkit-box-shadow: 10px 10px 5px #888888;
```



DEMO TIME



Q & A



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