



AIR: Building Desktop Applications with AJAX

Duration: 2 days

Course Synopsis:

The Adobe Integrated Runtime (AIR) is a cross-operating system runtime which allows Rich Internet Applications (RIAs) to run as desktop applications. This is a two day course designed to equip web developers who have experience with AJAX technologies with the skills needed to develop robust desktop applications using the Adobe Integrated Runtime. This course focuses on the toolset available to HTML and Javascript developers.



ADOBE® AIR™

Who Should Attend:

This course is designed for application developers who would like to use the powerful combination of Adobe AIR and AJAX for desktop and web development. Please see the following prerequisites before registering for this class.

Prerequisites:

To gain the most from this course, you should have experience building HTML web applications with CSS and custom-written Javascript. Familiarity with AJAX (asynchronous Javascript and XML) techniques will enhance your learning the class.

What You Will Learn:

This course is designed to cover the following core basics and more:

- Getting Started with Adobe AIR
- Using the File System
- Creating Native Windows
- Using an Embedded SQL Database
- Persisting Application Data
- Connecting Applications

Time:

Class time is 9:00 a.m.- 4:00 p.m.

Breaks are scheduled throughout the day and lunch is typically scheduled 12-1. Students provide their own lunch.

Course Materials:

Course materials are provided. Our goal is to make sure your class meets your objectives, not ours. Therefore, all of our outlines are treated as guides to help steer the workshop. We may change or alter course topics to best suit the classroom situation.

Locations:

We have company-operated facilities in Atlanta, Chicago, Denver, San Diego and Washington DC. We also work with a network of rental facilities to offer our classes regularly across the United States and in Canada. Please double-check the location of your class with our office to make sure you get to the right location.

Related Courses:

We recommend the following courses that relate to this class: Flex 3: Developing Rich Client Applications and Adobe Dreamweaver. Please take a look at our other course outlines at our website, <http://www.ledet.com>.

Goals:

Sterling Ledet and Associates realizes the importance of education and we take pride in being able to offer you classes that are more custom fit to your needs. Call us at (770) 414-5007 if you have any special questions or e-mail us at sales@ledet.com.

Registration:

Please fill out our registration form and fax it to us at (312) 896-9094.

URL: <http://www.ledet.com> • Local: (770) 414-5007 • Toll Free: 1-877-819-COOL



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Lesson Plans

LESSON 1

Introducing the Course

- Introducing Mastery Learning
- Understanding the Course Format
- Reviewing the Course Prerequisites
- Reviewing the Course Outline

LESSON 2

Introducing Adobe Integrated Runtime (AIR)

- Exploring the AIR development Toolset
- Understanding the AIR SDK
- Looking at Dreamweaver
- Reviewing the AIR tools for Dreamweaver
- Creating AIR Sites
- Exporting AIR Applications
- Walkthrough: Review the course application

LESSON 3

Getting started with AIR

- Creating your first AIR application
- Creating an AIR project
- Creating an AIR application in Dreamweaver
- Creating a Site
- Creating a new AIR application in Dreamweaver
- Launching Your AIR application in Dreamweaver
- Packaging and deploying applications
- Using the Air Application Settings Wizard
- Selecting application content
- Code-signing an application
- Exporting an application

- Installing an application
- Understanding the contents of the .air file
- Exploring the AIR file format
- Understanding the application descriptor
- Understanding the application display attributes
- Learning AIR Fundamentals
- Understanding the application container
- Functionality of AIR
- Accessing AIR Features from Javascript
- Getting Debugging Information
- Extending the Runtime with ActionScript
- Getting help and other resources

LESSON 4

Using the File System

- Using the File class
- Introducing the file class
- Accessing common directories
- Allowing user to specify files or directories
- Interacting with the file system
- Referencing a file or directory
- Creating directories
- Moving and copying file system objects
- Removing file system objects
- Using file streams
- Reading and Writing Files
- Working with files asynchronously
- Compare synchronous and asynchronous methods

LESSON 5

Creating Native Windows

- Exploring the types of windows
- Customizing properties of the window
- Using the NativeWindow class
- Adding content to a window
- Manipulating windows
- Resizing a window
- Moving a window
- Using window events
- Using addEventListener()
- Identifying the window events

LESSON 6

Persisting Application Data

- Using an embedded SQL databases
- Understanding the database file
- Opening a database
- Creating a database
- Using SQL statements
- Managing the database
- Managing the data
- Using best practices with embedded databases
- Working with data types
- Using Date data type
- Using XML data type
- Using BLOB data type

LESSON 7

Using the clipboard

- Moving data with copy and paste
- Understanding the Clipboard
- Using the generalClipboard
- Getting data from the clipboard
- Writing data to the clipboard



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Lesson Plans

LESSON 8

Connecting Applications

- Communicating between applications
- Using LocalConnection
- Detecting network availability
- Monitoring network state changes
- Detecting HTTP connectivity
- Detecting Socket connectivity
- Connecting to web applications using URLRequest
- Requesting a URL via HTTP
- Using the URLRequest class
- Using the URLVariables class
- Using the URLoader class

LESSON 9

Understanding AIR Security

- Considering AIR security
- Learning about security sandboxes
- Understanding the domain considerations
- Understanding the need for Security Sandboxes
- Implementing Security Sandboxes
- Implementing the sandbox bridge
- Understanding application updates

LESSON 10

Customizing Application Deployment

- Setting the application's desktop icon
- Using application icons
- Using system tray icons