



Flash Video Development

Flash Video Development provides students the knowledge and hands-on practice they need to produce and deliver high-quality Flash Video over the internet using Flash Professional. This course will focus on delivering the best experience possible with Flash Video, exploring bandwidth scaling, progressive downloading, and streaming with the Flash Media Server.

Target Student: This course is for developers with extensive experience with Adobe Flash Professional.

Prerequisites: Before taking this course, you should have completed both the Flash Rich Content Creation course and the Flash Action Script course, or have equivalent experience and knowledge. Experience working with video is highly recommended.

Delivery Method: Instructor-led classroom-delivery learning model with structured hands-on activities.

Benefits: After completing this course, you will know all the ways to deliver video through the Flash Player. You will learn how to convert raw video to Flash Video. You will learn the different delivery methods for deploying video. You will also learn how to make custom video players as well as apply effects, closed captioning and other complex interactions. Finally you will learn how to create dynamic playlists and utilize the Flash Media Server.

What's Next:

Dreamweaver Website Development Learn to create web sites using Macromedia Dreamweaver. The course focuses on best practices and design, stressing the importance of usability.

Acrobat/PDF Create and secure PDFs for document distribution on the Web.

Flex Rich Client Applications Learn to create dynamic applications using Adobe Flex and build a fully functional, well-architected front end for a Rich Internet Application (RIA).

Performance-Based Objectives

Upon successful completion of this course, you will be able to:

- Develop a rich media player using the pre-built components as well as ActionScript 3.0.
- Use high-quality encoding techniques, including the new Flash Video codec enabling the delivery of higher quality video over lower bandwidth connections.
- Create live video.
- Export the new alpha-channeling and video color filters.
- Build a custom media player.
- Enhance the user experience.





Flash Video Development 2 Days

Capturing and Processing Video

- Designing the Video Experience
- Planning a Video Shoot
- Capturing Video
- Processing Video

Video Compression

- Working with Source Files
- Understanding Video Bitrates
- Flash Player Versions and Codec Options
- Determining Video Compression
- Encoding FLV Files

Delivery and Deployment

- File Formats
- HTTP vs RTMP Protocols
- Delivery Options
- Progressive Download vs Streaming
- Bandwidth and Transfer Rates

Using the Flash Video Playback Component

- Integrating Flash Video with Dreamweaver
- Flash CS3 Video Components
- Configuring Components
- Working with Cue Points
- Dynamically Placing Video on the Stage
- Modifying Video Component Skins
- Using Custom UI Components
- Creating Custom Media Players
- Using Video Objects

Working with NetConnection and NetStream Objects

- Building Basic Playback Controls
- Reading Video Metadata
- Responding to Video Metadata

Integrating Multiple Bitrates

- Bitrate Delivery Strategies
- Determining which Bitrates to Offer
- Preparing SMIL Files
- Calculating Available Bandwidth
- Enabling Dynamic Buffering for Real-time Streams

Extending Video

- Using Video Metadata and Cue Points for Navigation
- Making Flash Content Respond to Video Events
- Using XML to Build a Video Playlist
- Controlling Captioning Through Timed Text XML
- Using the FLVPlayback Captioning Component
- Using Alpha Channels in Video

Delivering a Reliable Video Experience

- Creating a Deployment Plan
- Encoding Flash Video
- Deployment Strategies