Streaming Video Solutions for Higher Education

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FMS Case Study - University of Denver

DU Website Videos

- DU Today
- Departmental websites
- Archived speeches

Live Events

- Concert performances
- Building dedications
- Commencements

CourseMedia™ Content

- CourseMedia™ video / audio
- Sharing on Blackboard
- Internal generator / player for public videos

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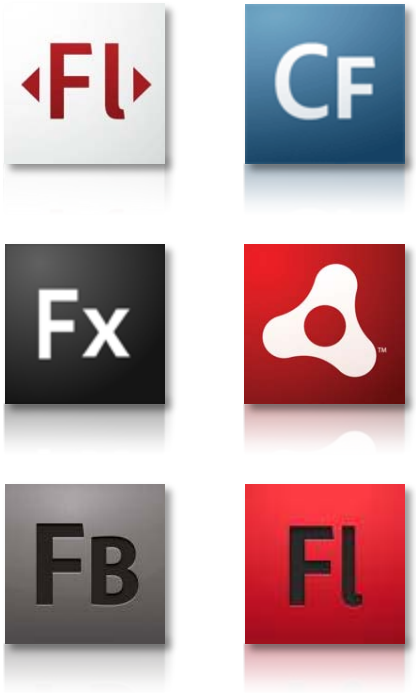
History of Streaming Media at DU

Flash Media Interactive Server

- Streaming Media Committee
- Using FMS since 2004
- Explored Flash Video and Quicktime
- First used for video-on-demand (QT for live feeds)
- Now used for both video-on-demand and live
- Two FMS instances in current use
- One server dedicated to CourseMedia™



Adobe Flash Platform

- Coldfusion servers
- Flex framework
- Flash Player
- Adobe AIR Runtime

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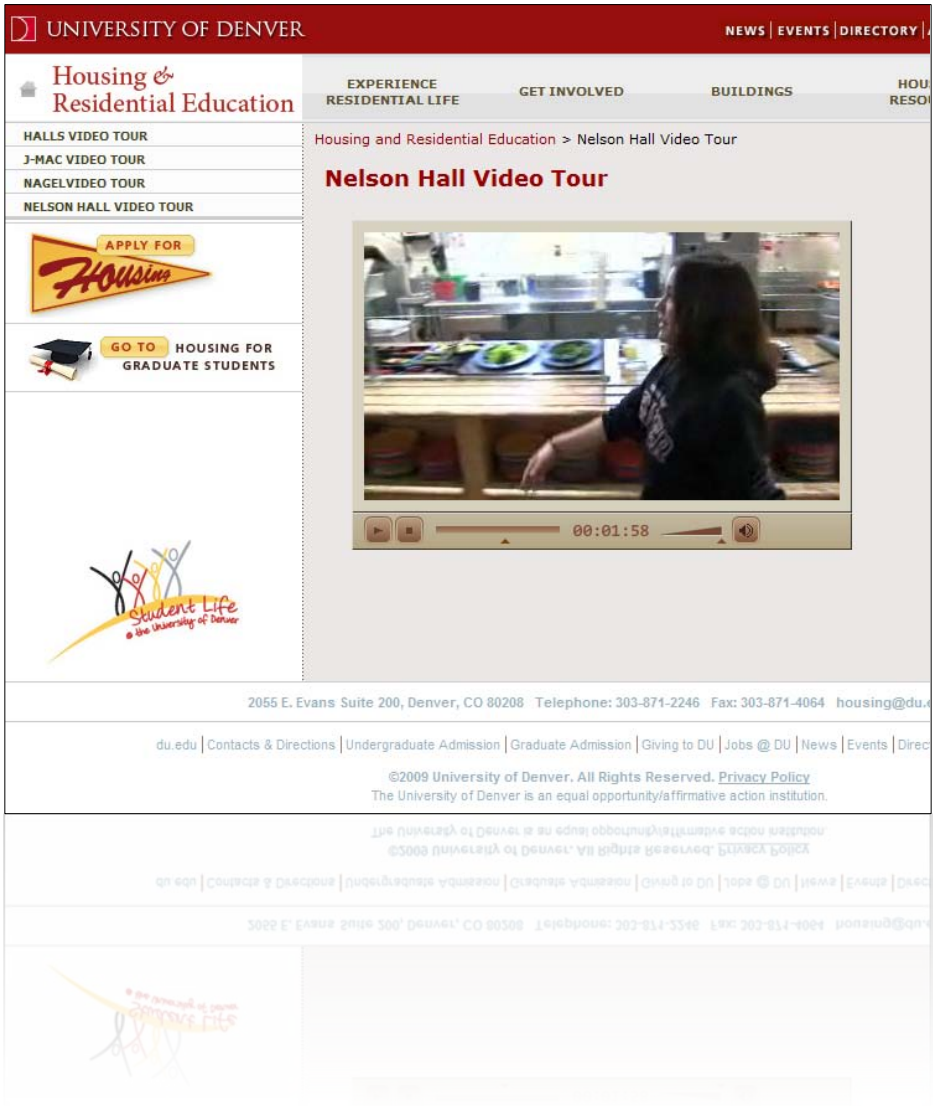
Video Streamed Through the DU Website

Web-Based Video-on-Demand

- DU Today news features
- Speech archives
- Deans' welcome messages
- Campus tours
- Departmental website videos

Additional Usage

- BCR's Collaborative Digitization Program
- Assessment materials (DU Portfolio)
- Course lecture distribution
- University College language courses
- AIR-based installation kiosks



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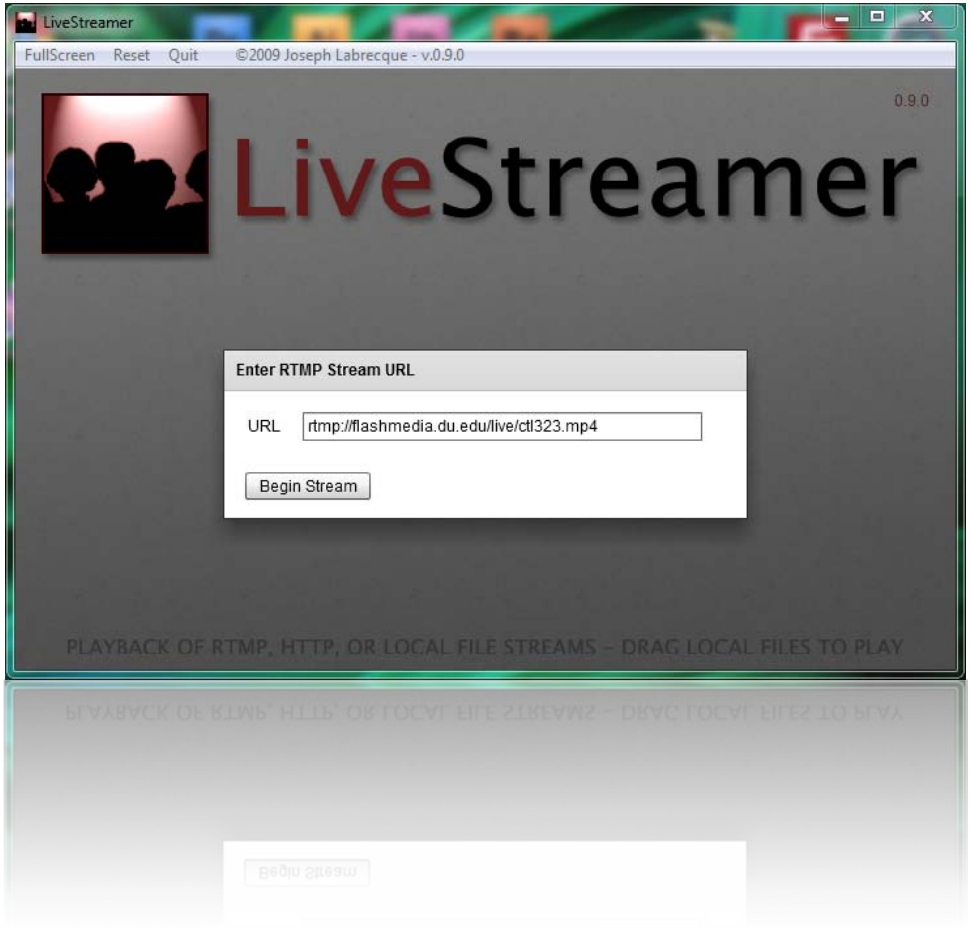
DU Live Event Audio and Video Streams

Live Video Streams

- Guest speakers
- Commencements
- Chancellor's inauguration
- Lamont School of Music performances
- Building dedications
- Bridges to the Future
- Cross-campus streams



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DU CourseMedia™ and Related Offerings

CourseMedia™

- ColdFusion based web application with an integrated Flash toolset.
- Web-based video clip generator
- Per-object narrative recorder
- Embed code generator for Blackboard
- Integrated media viewer
- Content can be copyright-protected or public
- Content providers can generate embed codes for external, public videos

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Video Clip Generator

Features

- Faculty easily create video excerpts
- No duplication of video files
- Simply saves start and end data
- Full data display – length, position, etc.
- Multiple methods of creating a clip
- Social tagging and sharing
- Full metadata view
- Allows editing of existing clips

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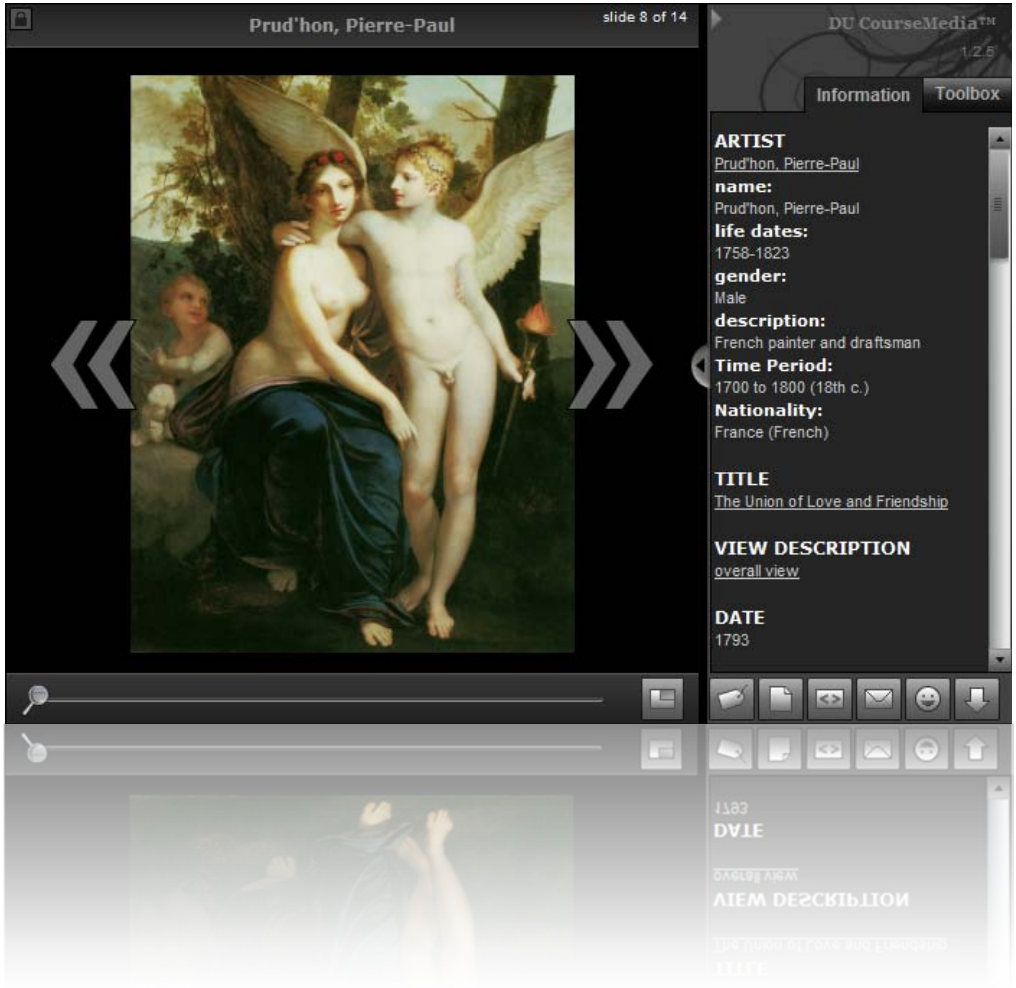
Media Viewer

Features

- View gallery objects as “slideshow”
- Full metadata records
- Object manipulation tools
- Social tagging and sharing
- Full embed functionality
- Instructor notes, discussions, links
- Instructor object narrations
- Per-object security feature



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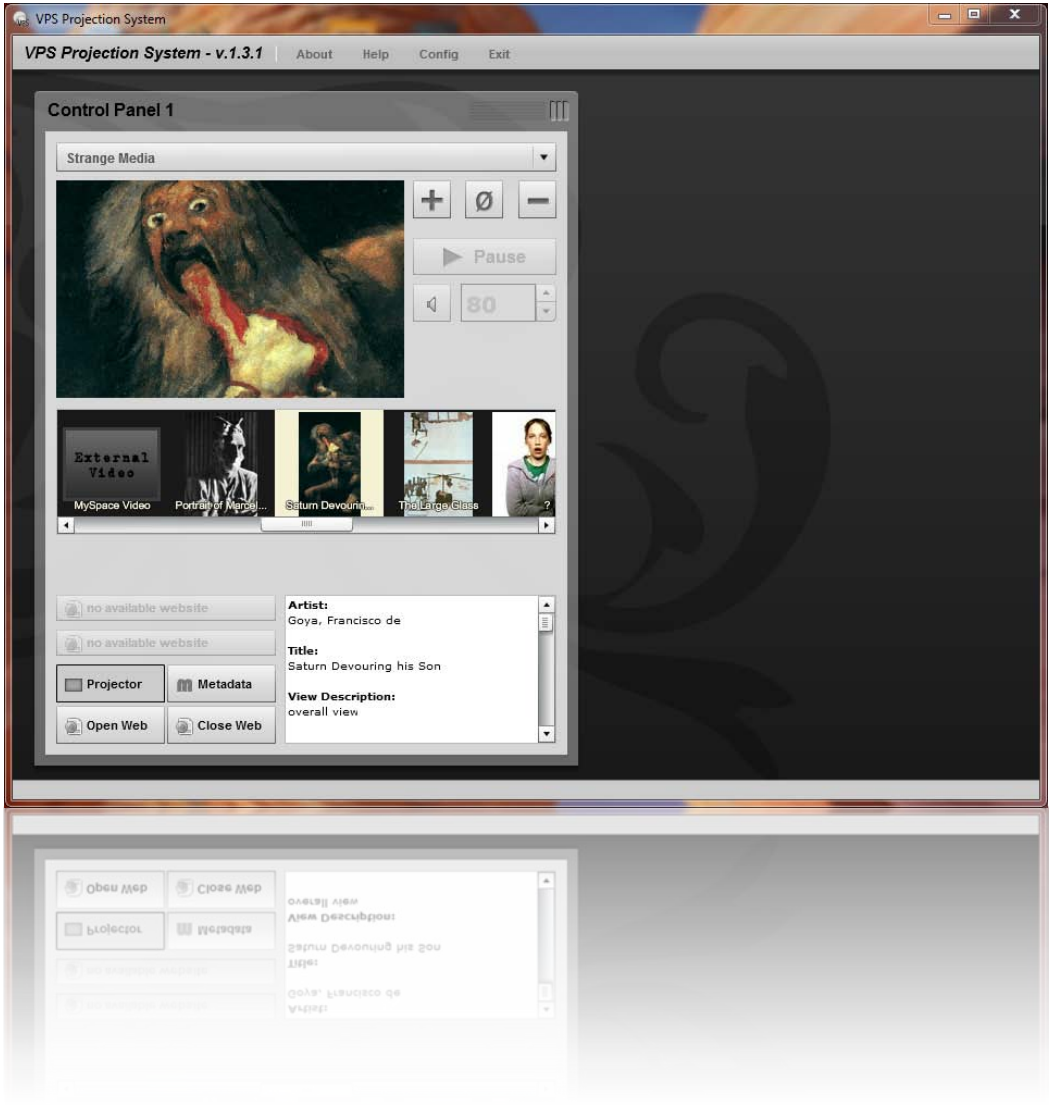
VPS Projection System

Features

- Projects any gallery item
- Compare different objects
- Compare full object with detail
- Detects number of projectors
- Split screen for single projector
- Allows transparent manipulation
- Settings are saved upon use
- Auto updates from server



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DU Video Roadmap

Social Video Event Player

- Working with University Communications
- Integrate social aspects into player
- Potential to use Social service library
- May also use Open Source Media Framework

AIR-Based Streaming Application

- Cross-platform, simple stream generator
- Similar in functionality to the Flash Media Live Encoder, but targeted for simplicity and DU specs
- Goal is to have anyone be able to stream live events on any platform

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