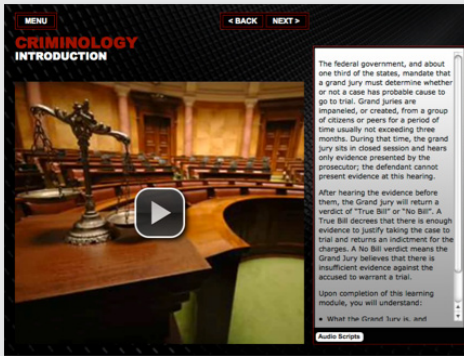# *M* monarch*media*

## Monarch Media, Inc., Case Study

## Cengage Replaces Flash-Based Learning Objects with Modules Built in HTML5 for Greater Accessibility

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## Overview

Cengage Learning's Criminal Justice modules are designed to teach students situational crime prevention, a theory of criminology that attempts to reduce the opportunity for crimes to be committed.  The goal is for students to understand the basics of situational crime prevention upon completing the learning modules.

Cengage decided to update the modules because they were coded in Flash, a technology that isn't compatible with some mobile devices, such as iPhones and iPads. Flash also can create problems with passing data through to learning management systems. Finally, Cengage wanted to update the design and layout of the modules to make them more attractive and user friendly.

Monarch Media developed a modernized version of the learning objects in HTML5 to play on both Flash- and non-Flash compatible browsers effortlessly.  Media queries allow the styles and layouts to adjust to fit the width and height of the screen of the desktop computer or mobile device, making the course clear and easy.

## Client

Cengage Learning

## Challenge

To update Cengage's Criminal Justice course to increase accessibility on non-Flash compatible mobile devices and on learning management systems (LMS), as well as to modernize the graphics and layout.

## Solution

Converting Flash-based assets into learning objects coded in HTML5 and testing across mobile devices and LMS. Updating outdated design with new layout, photos, and narration. *View video demo.*
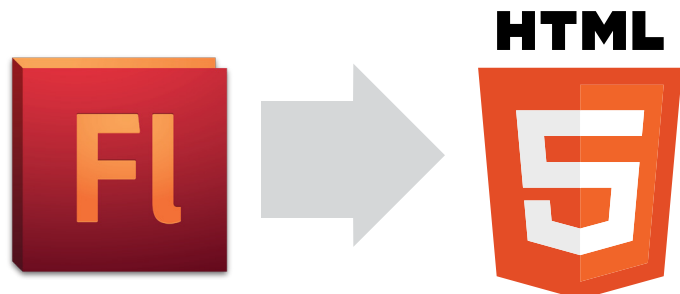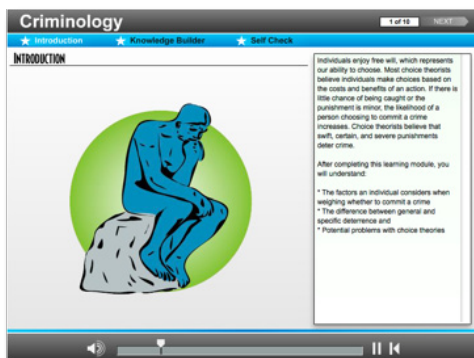
## Key Benefits

- Plays on iPhones and iPads seamlessly
- Ties in well with most LMS
- Reduces the chance the modules will be made obsolete by future technologies
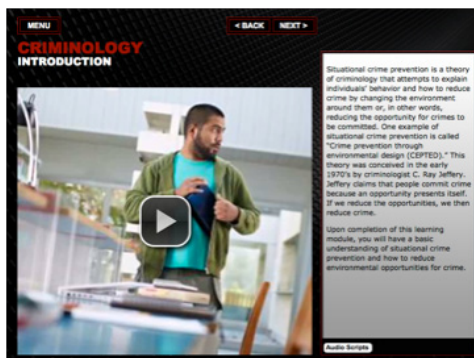- Viewable on all desktop computers and mobile devices

*The project launch went well. The feedback I have is really how well communications and changes were managed during the course of the project. I am very impressed."*

*-- Andy Yap,*
*Cengage Learning*



*Before*



*After*

# Developing the Modules

HTML5 is commonly used to refer to a group of new open-standards Web coding technologies. To convert Cengage's Flash-based learning objects, Monarch Media used HTML, CSS, JavaScript, jQuery, and compliant multimedia to replicate Flash animations and interactions.

Monarch Media's goal was for the modules to be viewable on all major mobile and desktop browsers. Two strategies allowed us to accomplish this goal. First, we used media queries in the modules' style sheets, which allowed us to define styles and layouts specifically for the width and height of the screen. For example, the text for the modules displays to the right of the video if you're viewing them on a computer screen, but displays below the video if you're viewing them on a mobile browser.

Second, an open-source HTML5 player was used for video play-back. The player supports both Flash and HTML5 rendering modes, so it plays on Flash and non-Flash-compatible browsers seamlessly.

In addition to the programming, Monarch created a modern interface and sourced all the photography used in the videos to replace the previous illustration-based design.

# More Information

To learn more about how Monarch Media can help you with your next eLearning project, please call, email, or visit our website:

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