

Describe types of multimedia files used on the Web Configure hyperlinks to multimedia files Configure audio and video on a web page with HTML5 elements Configure a Flash animation on a web page Describe features and common uses of JavaScript and jQuery Use the CSS3 transform and transition properties Create an interactive image gallery with CSS Configure a drop-down interactive menu with CSS Describe the purpose of geolocation, web storage, offline web applications, and canvas HTML5 APIs Copyright © 2016 Pearson Education. Inc., Hoboken NJ

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Helper Applications & Plug-ins

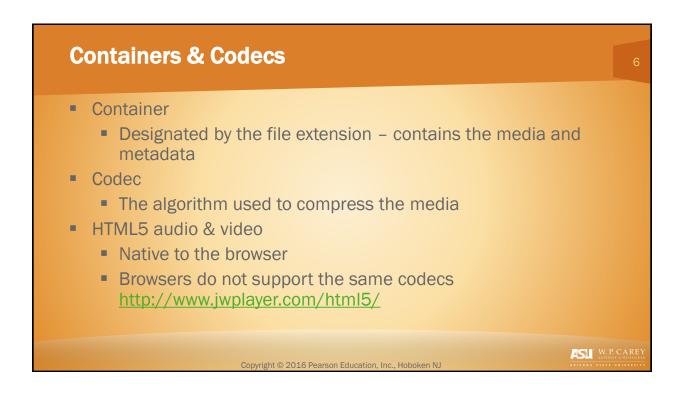
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- Helper Application
 - A program that can be designated to handle a particular file type (such as .wav or.mpg) to allow the user to view or otherwise utilize the special file.
 - The helper application runs in a separate window from the browser.
- Plug-In
 - A newer and more common method
 - Plug-ins run right in the browser window so that media objects can be integrated directly into the web page.

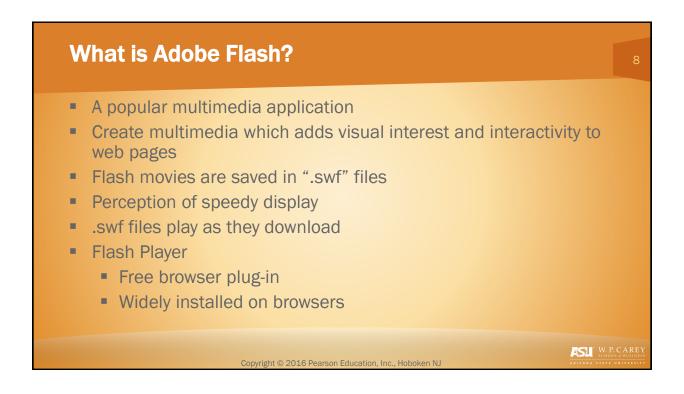
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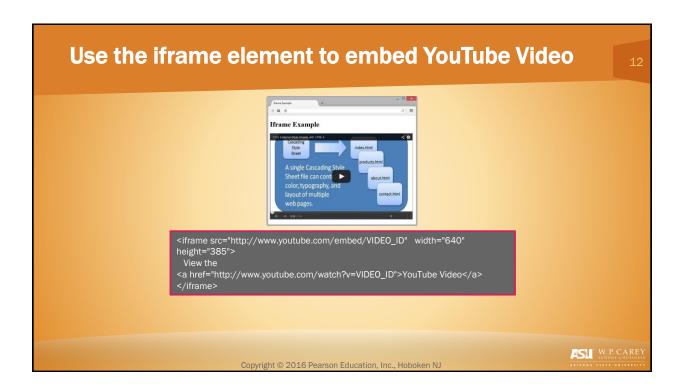


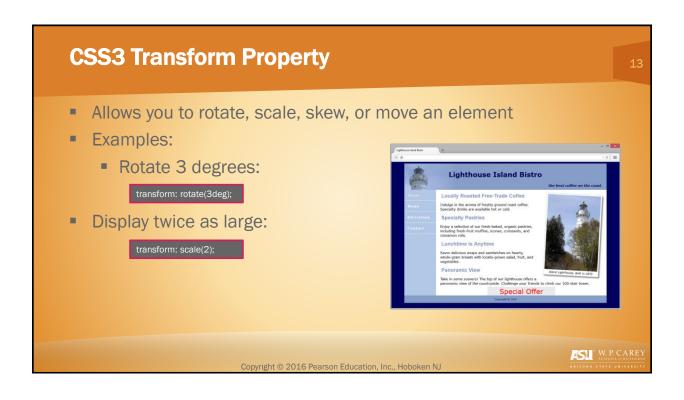






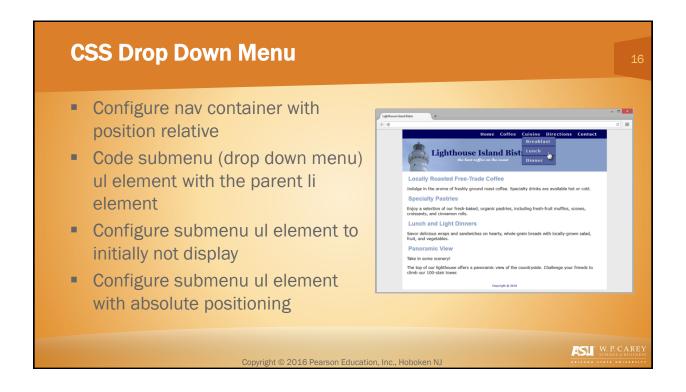




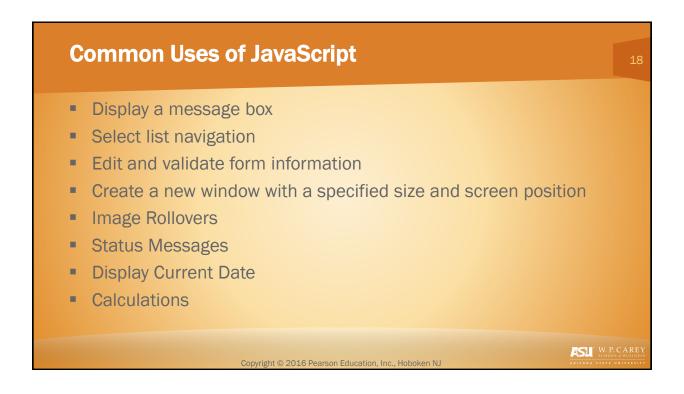








What is JavaScript? ■ Object-based scripting language ■ Manipulates the objects associated with a Web page document: ■ The window ■ The document ■ The elements such as forms, images, hyperlinks, etc.



Exploring jQuery A JavaScript library intended to simplify client-side scripting Example: http://webdevfoundations.net/jquery API - Application Programming Interface A protocol that allows software components to communicate – interacting and sharing data. The jQuery API can be used to configure many interactive features, including: Image slideshows, animation (moving, hiding, fading), event handling (mouse movements and mouse clicking), document manipulation, Ajax

HTML5 APIs ■ API – a protocol that allows software components to communicate – interacting and sharing data ■ A variety of APIs that are intended to work with HTML5, CSS, and JavaScript are currently under development and in the W3C approval process, including: ■ geolocation ■ web storage ■ offline web applications ■ canvas

HTML5 Geolocation

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- Allows your web page visitors to share their geographic location
- Their location may be determined by the IP address, wireless network connection, local cell tower, or GPS hardware depending on the type of device and browser.
- JavaScript is used to work with the latitude and longitude coordinates provided by the browser.
- Examples:
 - http://webdevfoundations.net/geo
 - http://html5demos.com/geo

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HTML5 Web Storage

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- Traditionally, the JavaScript cookie object has been used to store information in key-value pairs on the client (the website visitor's computer).
- NEW FOR HTML5: Web Storage API
 - provides two new ways to store information on the client side: local storage and session storage.
 - Advantage: increase in the amount of data that can be stored (5MB per domain).
 - The localStorage object stores data without an expiration date.
 - The sessionStorage object stores data only for the duration of the current browser
 - JavaScript is used to work with the values stored in the localStorage and sessionStorage objects.
- Examples:
 - <u>http://webdevfoundations.net/storage</u>
 - <u>http://html5demos.com/storage</u>

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