



INFRAGISTICS
DESIGN / DEVELOP / EXPERIENCE

HTML5 & jQuery Fundamentals

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Agenda

1 / Brief overview of the web today

2 / HTML5

3 / jQuery

4/ Infragistics

5 / Resources & Wrap Up

6 / Q & A

HTML5

New HTML Elements / CSS3 / JavaScript



RIA in the browser

HTML5 brings a slew of new features any web designer and designer should be excited over.

HTML5 includes updated:

- HTML tags
- CSS (CSS3)
- JavaScript API's

Designed for desktop as well as mobile experiences

- Still a Draft – Updated target for Recommendation is 2014
- Standards-based, plug-in free web experience
- Most new Tags are supported by all Major Browsers - with some exceptions
- Driven by Microsoft, Apple, Google
- Competitors
 - Adobe Flash
 - Microsoft Silverlight





The Semantic Web

Web designed for how we think, how we read

Generic tags replaced with semantic tags

`<object>` = `<video>`

`<div>` = `<footer>`

`` = `<nav>`

- New Mark up Elements
- Better browser consistency
- SEO Friendly
- Media Elements
- Canvas for Graphics
- Form Elements
- Built-in Input Types

```
<!doctype html>
<html>
  <head>
    <style>
      video
      {    width:640px;
          height:360px;}
    </style>
  </head>
  <body>
    <header>
      <h1>Playing HTML5 Med
    </header>
    <section>
      <h1>Video</h1>
      <video controls autop
        <source src="mp4v
        <source src="datav
        <source src="theo
        <source src="webm
      This browser does not sup
    </video>
  </section>
  <footer>
    Footers are at the bo
  </footer>
</body>
</html>
```



CSS3 Attributes

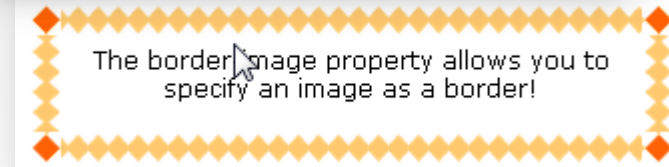
Designers now have control over visual design attribute with CSS 3 and ability to add transitions via CSS

- Border
 - Image
 - Radius
 - Shadow
- Animation
- 2D/3D Transforms
- Box Model
- Column Layout
- Text Effects
 - Shadow
 - Word Wrap

This box has rounded corners!



The border-image property allows you to specify an image as a border!



Text shadow effect!



Note: Internet Explorer does not support the column-count property.

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JavaScript API

More application scenarios made possible with the new JS API running inside of the browser

- Selectors
 - `getElementsByClassName`
 - `querySelectorAll`
 - `querySelector`
- GEO Location
- Local Storage including SQL Database storage
- Web Workers
- Web Sockets

GEO Location :



Geo Locate Me!

Your address: 420-436 Forsgate Dr, Cranbur

New HTML5, CSS3 & JavaScript Features
Cheat Sheets

DEMO

jQuery

Library / Widgets / Data / Styling

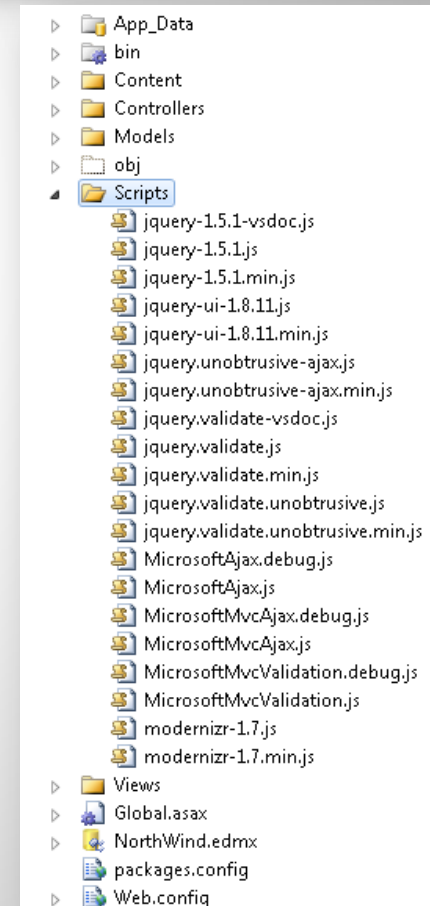
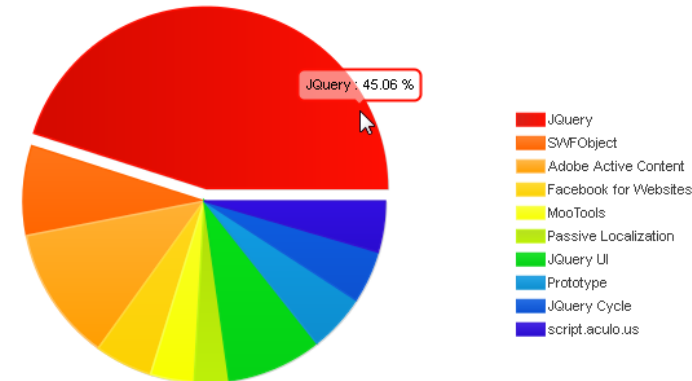


Library

jQuery is a fast and concise JavaScript Library that simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development. jQuery is designed to change the way that you write JavaScript.

- Light Weight 31 KB
- Over 45% market share
- X-Browser support
- Enterprise adoption
- Makes writing JavaScript fun
- Tooling available
- Open Source

JavaScript Distribution in Top Million Sites

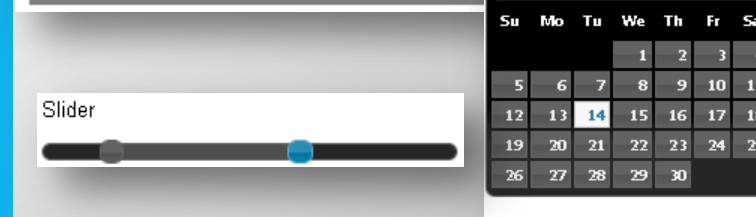
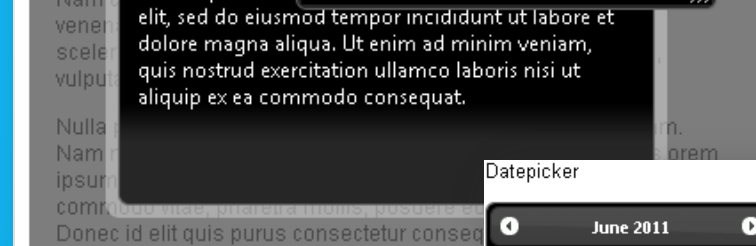
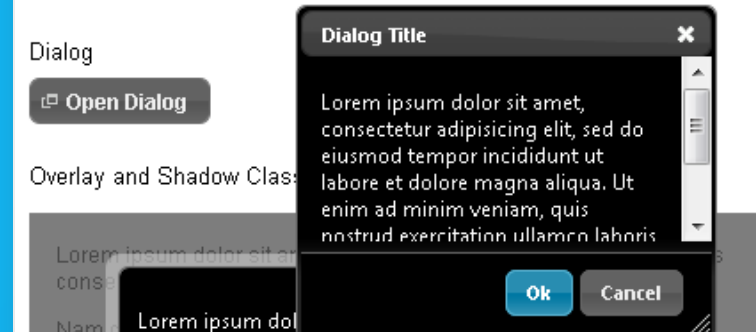
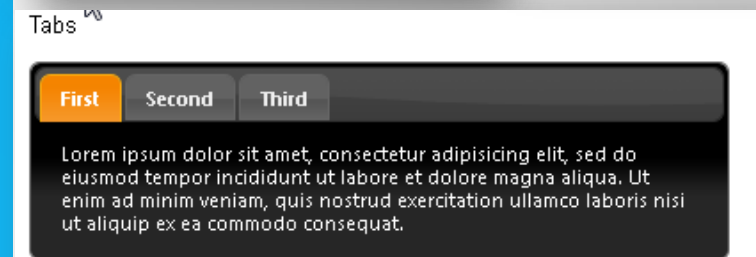
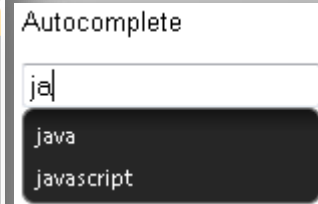
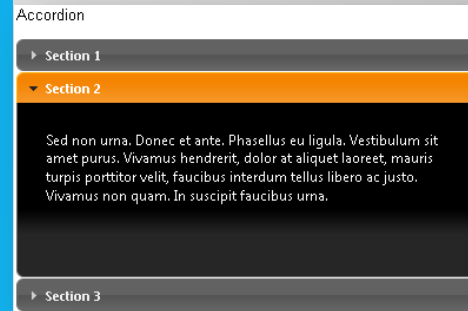




jQuery Widgets

jQuery UI provides abstractions for low-level interaction and animation, advanced effects and high-level, themeable widgets, built on top of the jQuery JavaScript Library, that you can use to build highly interactive web applications.

- Library of UI Widgets
- Built consistent Client UIs
- No Server Dependencies
- jQuery UI
 - Accordion
 - Tabs
 - Dialog
 - Button
 - Slider
 - AutoComplete
 - ...
- Plugins
 - jQuery Templates
 - Data-Linking
 - Globalization





Data Access

jQuery makes easy to bring data from the server to client via variety of methods.

- Get & Post Method
- Easily call to Web Forms WebMethod or ASP.NET MVC Controller Action
- Connect with WCF
- Connect with oData

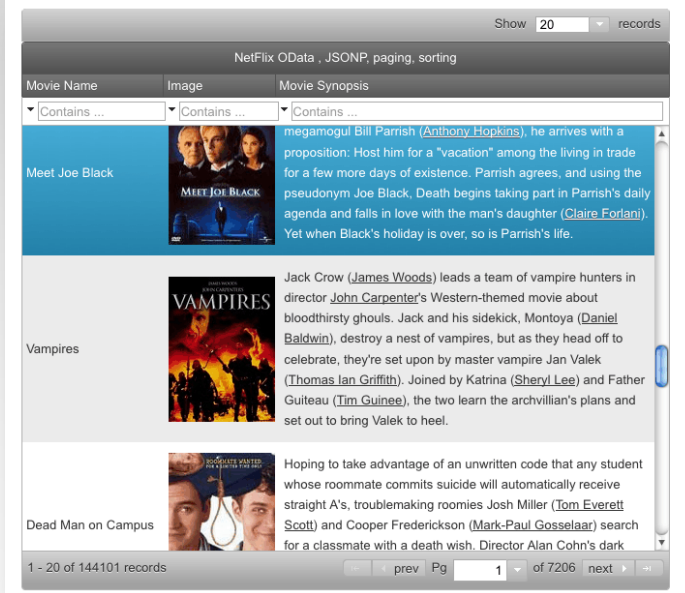





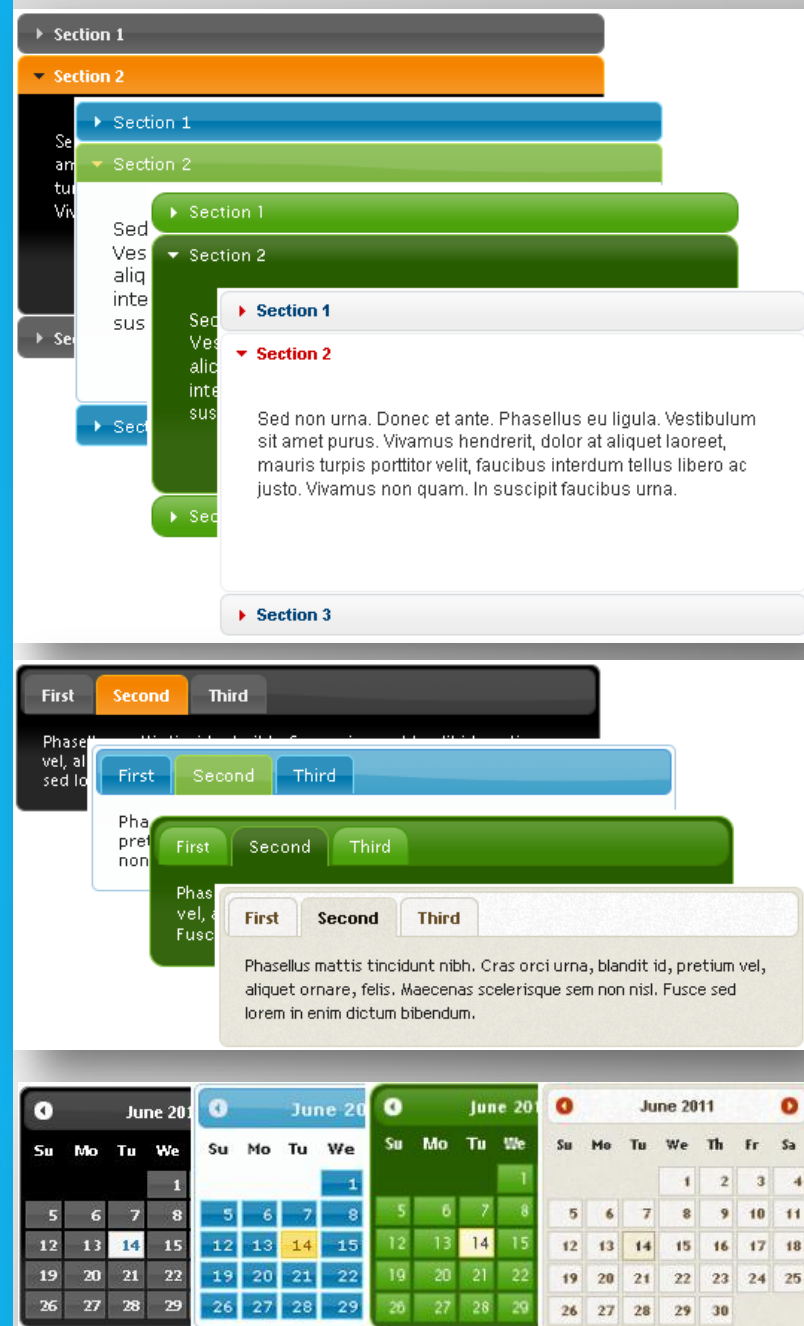


Image	Tweet	Sent at
	@IGsteph I also put it in the forums and already got a reply in there: http://bit.ly/kZVhmo	2:16:52 AM
	RT @Iprogrammerinfo: New jQuery controls from Infragistics http://bit.ly/ifo5dl	5:06:49 PM
	Show! RT @RenatoCantarino: @rodrigoval @djonatastenfen tem. http://bit.ly/mSCXw2	3:50:58 PM
	@rodrigoval @djonatastenfen tem. http://t.co/YsEWmpI	3:49:10 PM
	Geeking out all week at #Infragistics with fellow SEs and Evangelists	10:57:37 AM

Styling

Unique CSS framework, ThemeRoller tool and theme gallery makes creating a custom look and feel for your application fast and easy

- jQuery Styling Convention
- Open Source
- Theme Builder for jQuery UI
- Simple Copy & Replace



Library / Selectors / Widgets / Styling

Infragistics Controls

DEMO

Resources

- <http://www.infragistics.com>
- <http://community.infragistics.com>
- <http://samples.infragistics.com>
- Follow Me Twitter for Demos, HTML5 & jQuery Tips

@jasonberes

- Additional questions – jasonb@infragistics.com



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Thank You !!