Miscellaneous

Robert Boedigheimer
@boedie

pluralsight
hardcore developer training

Outline – Miscellaneous

- **Fallbacks**
- **Content Expirations**
- **Minification and Bundling**
- **CDN**
- **Troubleshoot**
- **Resources**

Fallbacks

- **Utilize modern techniques where available, use jQuery plugin otherwise**

- **Caniuse.com**

- **Modernizr**
    - JavaScript library that detects support for new HTML5 and CSS3 features
    - http://www.modernizr.com/

Content Expirations

- **Leverage user's browser cache**
    - No use of your bandwidth or servers
- **My goal is returning visitor makes 1 request!**
- **Set expiration times for content folders**

- **"If-Modified-Since" and 304 response**

- **Rename the file if need to override browser caching**

Minification and Bundling

- **Minimize JavaScript and combine**
  - Remove whitespace, comments, excessive semicolons, etc
  - Combine files to reduce HTTP requests

- **Used for jQuery core library and all jQuery plugins**

ASP.NET Minification and Bundling

- **Runtime (but results cached in memory)**
- **Default order**
  - Common libraries first (jQuery, etc)
  - Alphabetical
- **Multiple bundles are ok**
- **API**
  - Customize ordering of files

CDN

- **Content Delivery Network (CDN)**
- **Improve performance for users**
  - ☐ Reduce latency for clients
- **Reduce bandwidth and server load**
- **Great for "static" files**

- **Options (core library)**
  - ☐ jQuery
  - ☐ Google
  - ☐ Microsoft

- **Host combined files (JS and CSS) and images**

Troubleshoot

- Browser "view source" is the original downloaded HTML
- Use developer tools to see live DOM

- Use Fiddler "Make JavaScript Pretty" to un-minify before reaching the client

Summary

- **Fallbacks**
- **Content Expirations**
- **Minification and Bundling**
- **CDN**

Resources

- **Finding plugins**
  - http://plugins.jquery.com
  - http://jquery-plugins.net/
- **jQuery**
  - http://blog.jquery.com/
  - http://forum.jquery.com/
  - http://learn.jquery.com/
- **Pluralsight**
  - Fiddler - http://tinyurl.com/d8xac75
  - Web Performance - http://tinyurl.com/7r687aw

Course Summary

- jQuery plugins are a major reason why jQuery is so popular
- Easily add advanced client capabilities without much code
- Often several free plugins available for tasks

- Develop a strategy for finding and using plugins
- Use minification, bundling, expirations, and a CDN to improve performance
- Test often with newer browsers and updated jQuery core library

- Have fun adding cool client techniques with jQuery plugins!