

RE



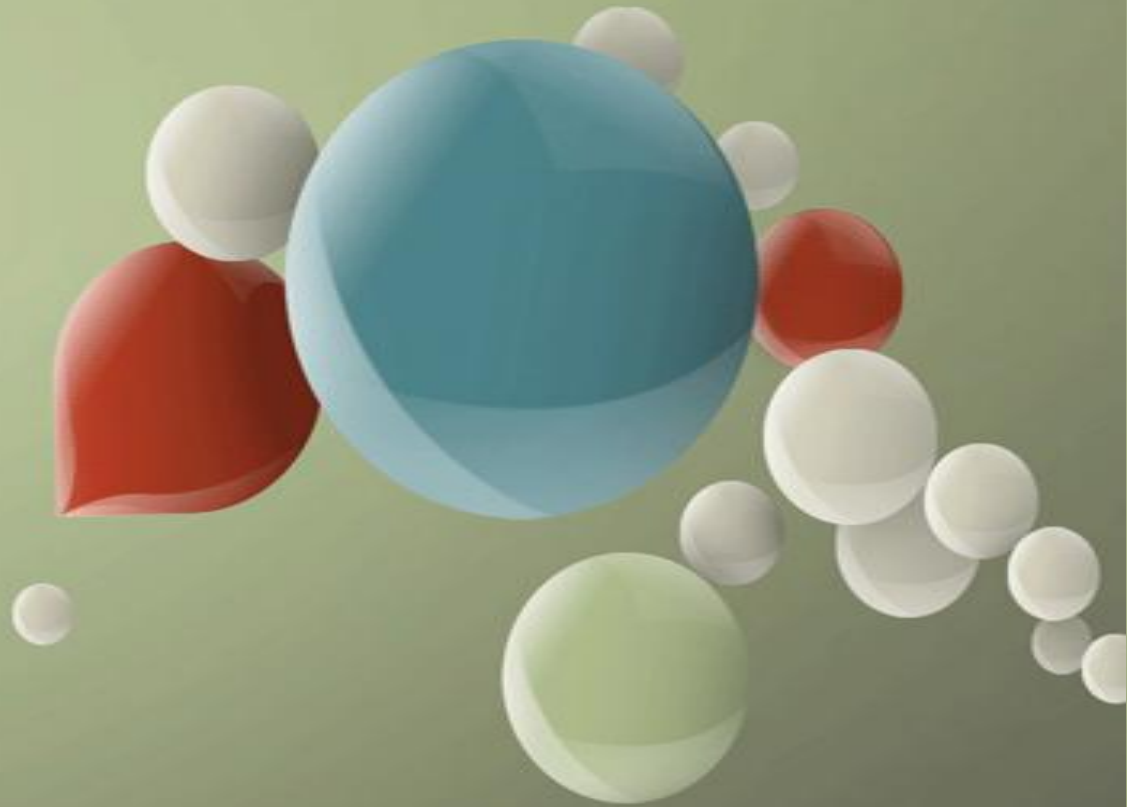
10

MOBILE.
WEB.
CLOUD.

now

ASP.NET과의 찰떡궁합 jQuery + jQuery-UI 활용법

한진수
Visual C# MVP
NEXON, 훈스닷컴



AGENDA

- jQuery
- jQuery-UI
- jQuery Structure
- Microsoft Support jQuery
- Client Data Binding
- Using ASP.NET Services
- Ajax History
- Demo
- Summary



jQuery

- Javascript와 HTML 사이의 상호작용을 강조하는 경량화된 웹 애플리케이션 프레임워크

- Write less, do more!

- Jone Resig

- 700line Sizzle Selector Engine

- <http://sizzlejs.com/>



Sizzle

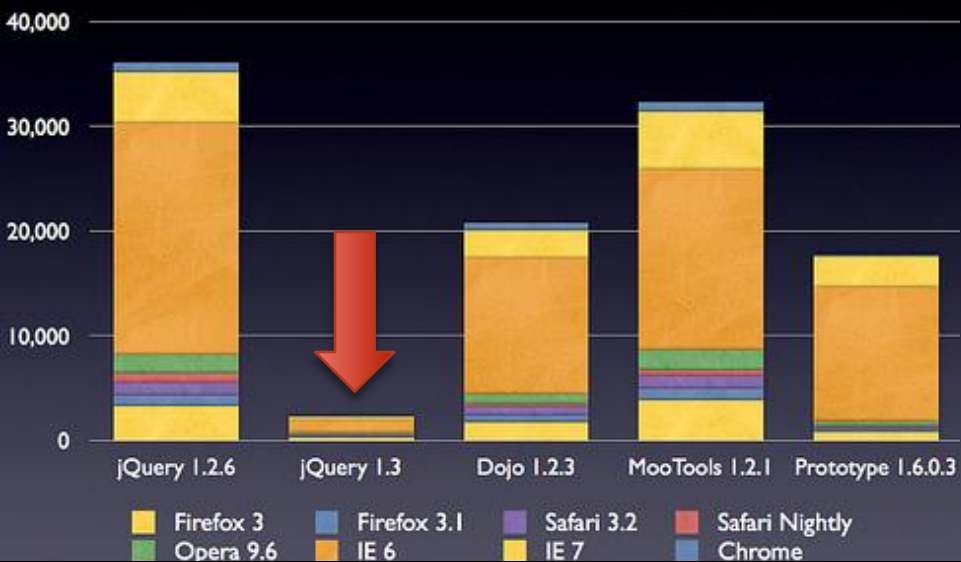
jQuery

- 2006-06-30 1.0a
- 2007-09-10 1.2
- 2008-05-24 1.2.6
- 2009-01-14 1.3
- 2009-02-20 1.3.2
- 2010-01-14 1.4
- 2010-01-25 1.4.1
- 2010-02-19 1.4.2

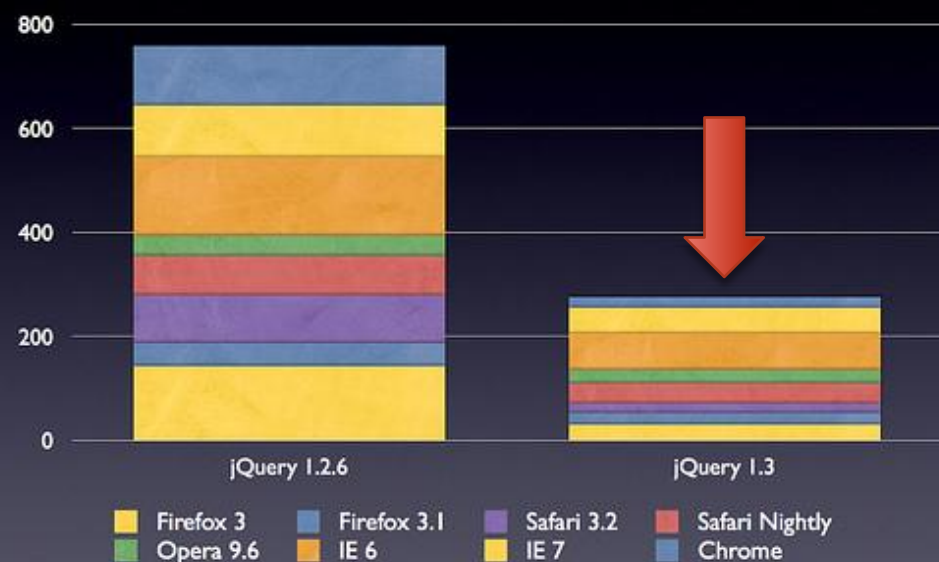
Sizzle Selector Engine

Last Release

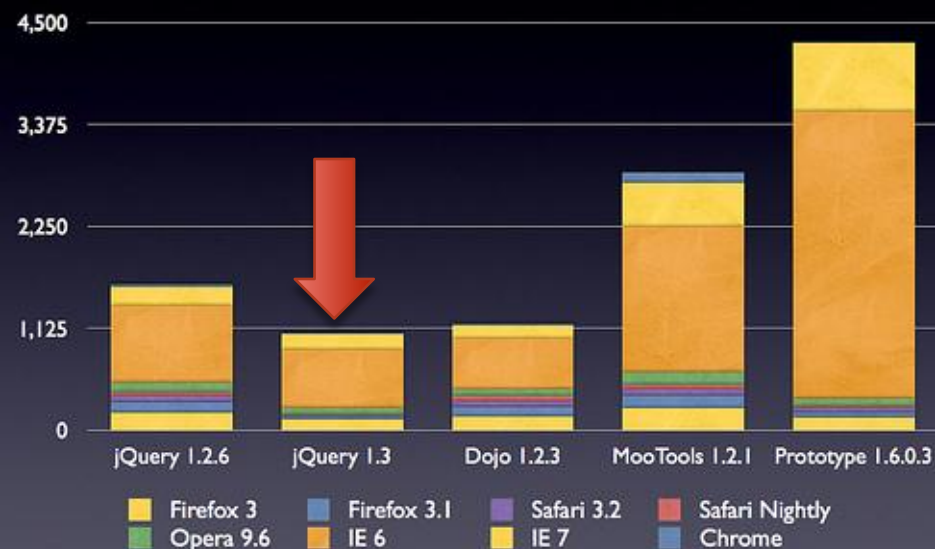
Delegation Filtering Performance



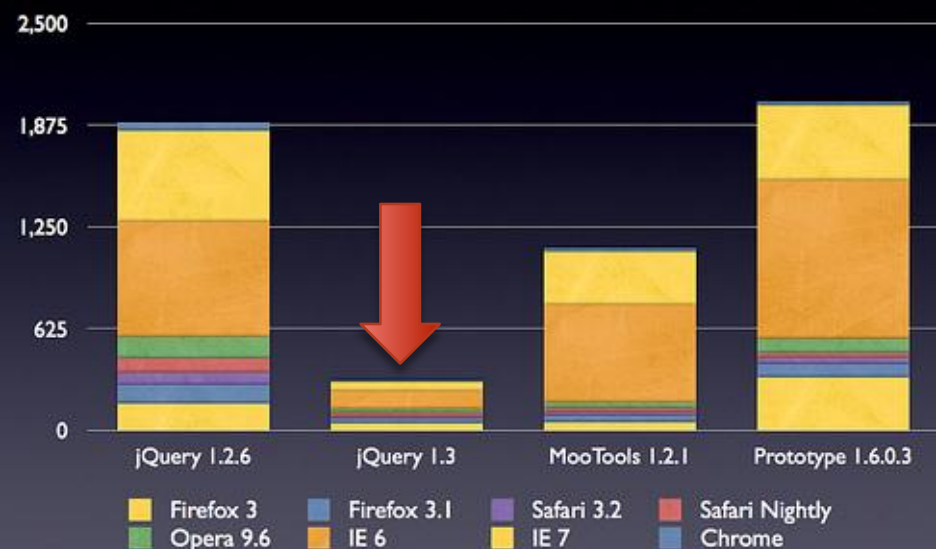
.offset() Performance



Selector Performance

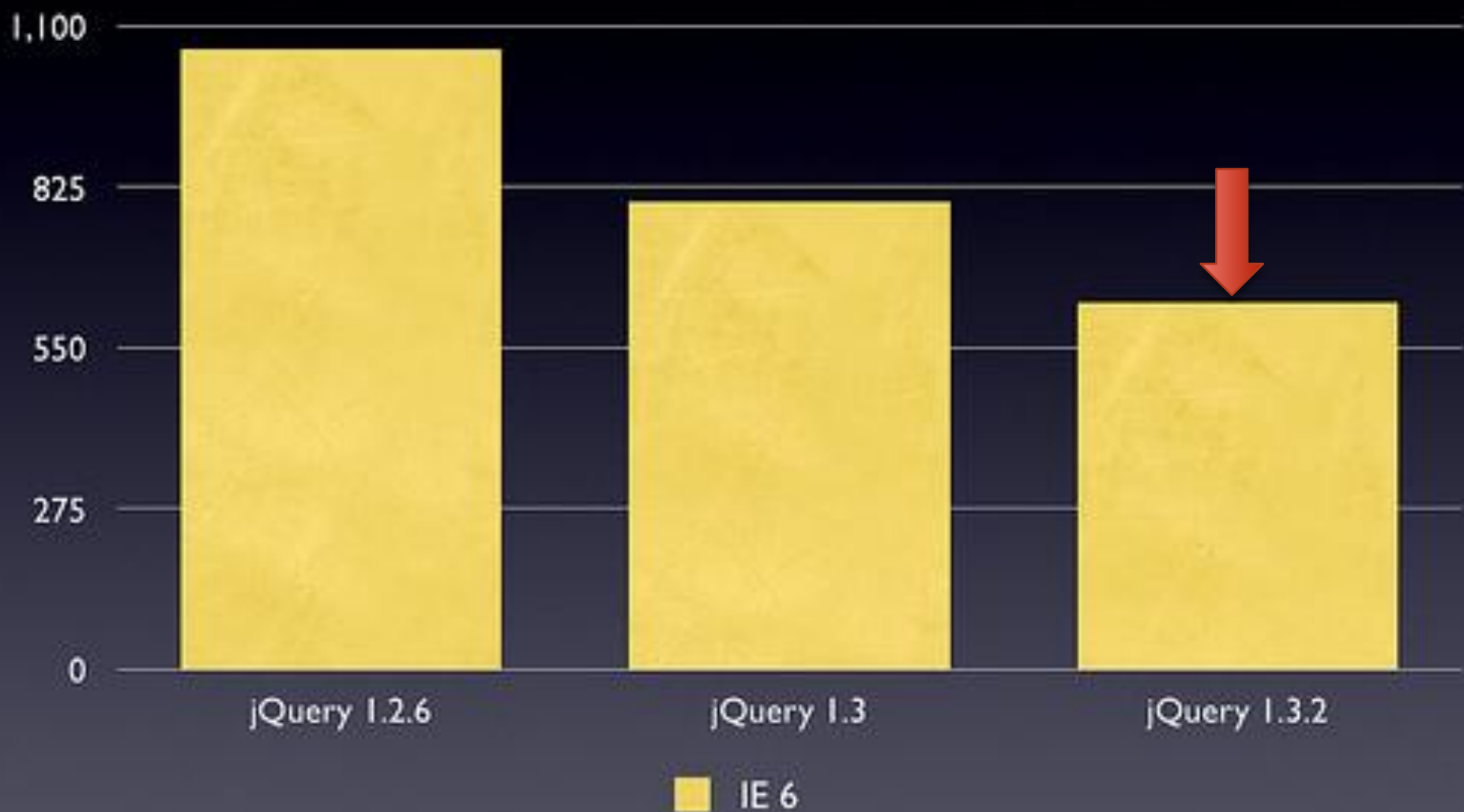


Element Insertion Performance



Selector Performance

(All times in milliseconds.)



Taskspeed Results (Time in ms, Smaller is Better)

22500

16875

11250

5625

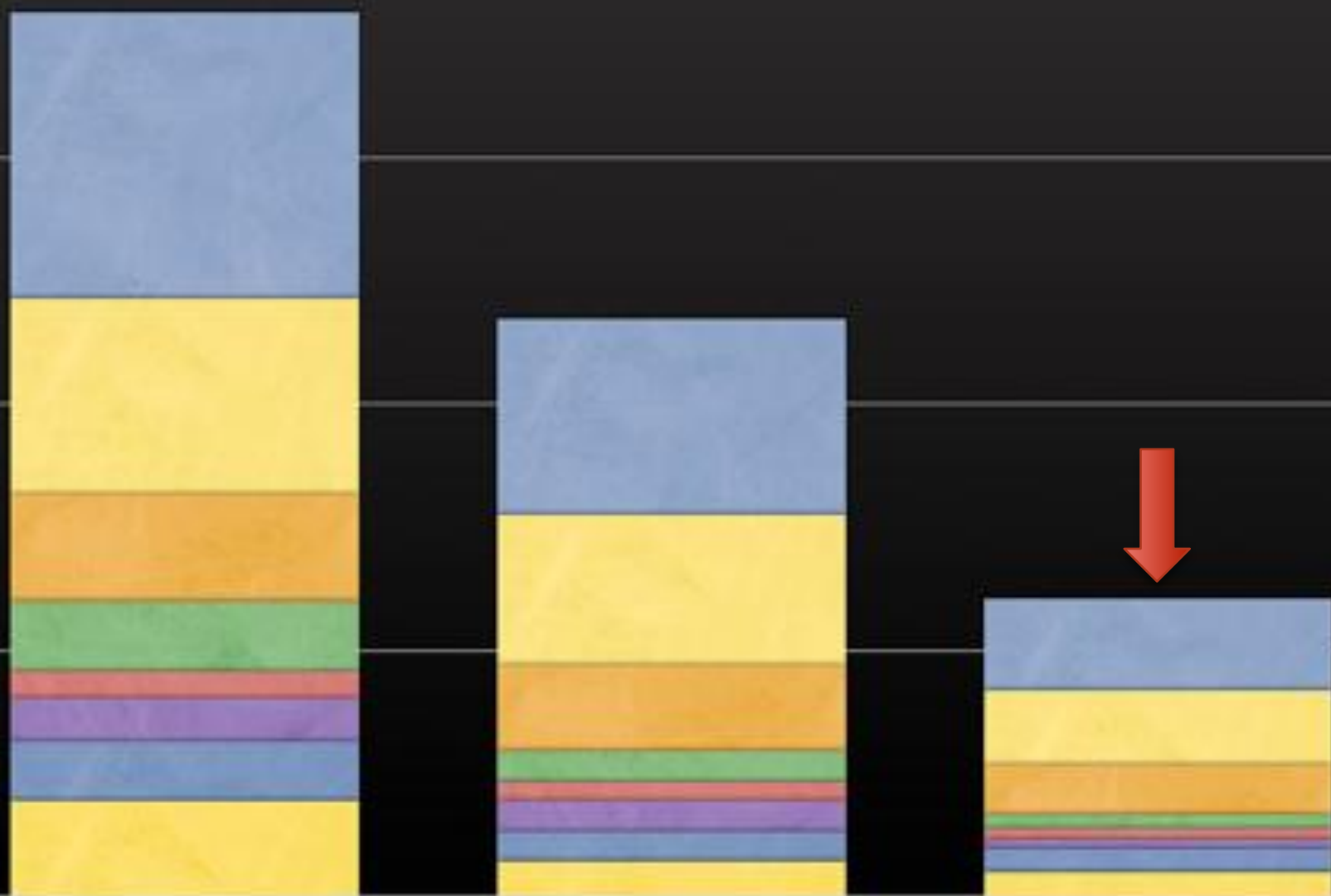
0

jQuery 1.3.2

jQuery 1.4.1

jQuery 1.4.2

FF 3.5 FF 3.6 Opera Safari Chrome IE 8 IE 7 IE 6



jQuery

- 스크립트 간소화
- Ajax 단순화
- HTML 애니메이션
- 강력한 DOM조작 및 이벤트 핸들링
- CSS, XPath 선택자를 이용한 DOM 선택
- 플러그인 확장
- Cross Browser 지원

jQuery

- Document

- <http://api.jquery.com/>

- Download

- [http://docs.jquery.com/Downloading jQuery](http://docs.jquery.com/Downloading_jQuery)

jQuery-UI

- jQuery를 기반으로 한 다이나믹한 User Interface 플러그인
- 풍부한 고급 효과와 유용한 UI 위젯
- 높은 수준의 Theme 제공

http://jqueryui.com/

ThemeRoller

Roll Your Own jQuery UI Theme

UI lightness UI darkness

Download Edit Download Edit

Smoothness Start

Download Edit Download Edit

Redmond Sunny

Download Edit Download Edit

Overcast Le Frog

Download Edit Download Edit

Flick Pepper Grinder

Download Edit Download Edit

April 2009 April 2009

Download Edit Download Edit

April 2009 April 2009

Download Edit Download Edit

Accordion

Section 1

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Section 2

Section 3

Tabs

First Second Third

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Dialog

Open Dialog

Overlay and Shadow Classes

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Button

A button element

Choice 1 Choice 2 Choice 3

Autocomplete

Slider

Datepicker

May 2010

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Progressbar

Highlight / Error

Hey! Sample ui-state-highlight style.

Alert: Sample ui-state-error style.

★ New! Bring ThemeRoller into any page: [Get the ThemeRoller Firefox Bookmarklet](#)

According to

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Section 3

First	Second	Third
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
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55	56	57
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61	62	63
64	65	66
67	68	69
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100	101	102

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Open Dialog

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A button element

Choice 1 Choice 2 Choice 3

May 2010						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

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i Hey! Sample ui-state-highlight style.

Alert: Sample ui-state-error style.

jQuery Structure

Selector

```
$("#id, .class, tagname").css("color", "red");
```

Factory

```
$("<div/>", { id: "id", css: { color: "red" }  
  click: function(){  
    $(this).css("color", "blue");  
  }  
}).appendTo("#target");
```


jQuery Structure

- jQuery 동작원리
 - 묵시적인 반복 수행
- 그렇다면, jQuery Object는 배열?

jQuery Structure

- [jQuery, jQuery, jQuery, ... jQuery]

- {

- Method: function(){},

- Method: function(){},

- Method: function(){},

- Length: 3,

- 0:[Element],

- 1:[Element],

- 2:[Element]

- }

jQuery Structure

- obj.data(key);
obj.data(key, value);
- \$.data(target, key, value);

```
... <!-- start content --  
[ ] <div id="content">  
  [ ] <div class="post">  
    [ + ] <h2>  
    [ + ] <div id="buttons" jQuery1275363968320="5">  
    [ - ] <div id="list" jQuery1275363968320="1">  
      [ + ] <div jQuery1275363968320="15">  
      [ + ] <div jQuery1275363968320="16">  
      [ + ] <div jQuery1275363968320="17">  
      [ + ] <div jQuery1275363968320="18">  
      ... <script type="text/javascript">var wcf = new  
    ... <!-- end content --
```

Microsoft Support jQuery



Microsoft Support jQuery



Microsoft Support jQuery

- Visual Studio 2010에서
웹폼 및 MVC 템플릿에 jQuery Library 포함
및 인텔리센스 지원
 - jQuery-1.4.1.js
 - jQuery-14.1.min.js
 - jQuery-1.4.1-vsdoc.js
- jQuery 플러그인 개발/협력/지원
 - jQuery.tmpl.js
 - jQuery.datalink.js

Microsoft Support jQuery

- Ajax Control Toolkit

- <http://www.asp.net/ajaxlibrary/Download.ashx>

- Microsoft Ajax Library CDN

- <http://www.asp.net/ajaxlibrary/CDN.ashx>

- jQuery

- jQuery Validation

- Ajax Control Toolkit

- ASP.NET Ajax

- ASP.NET MVC JavaScript Files

Client Data Binding

● HTML Render

```
var html = "<td>" + obj.Key + "</td>";  
elem.innerHTML = html;
```

Client Data Binding

● Templating

```
<script id="template" type="text/html">
```

```
<tr>
```

```
  <td>{{ key }}</td>
```

```
</tr>
```

```
</script>
```

```
$("#template").render(obj).appendTo("#result");
```

Client Data Binding

- My Plug-in (Jinsu Han)

```
<table id="list">  
  <tr>  
    <td>#key#</td>  
  </tr>  
</table>
```

```
$("#list").DataBinding(obj);
```

Using ASP.NET Services

- .aspx Web Form
- .ashx Generic Handler
- .asmx Web Services
- WCF Services
- Page Methods

Using ASP.NET Services

- Client JSON Helper scripts

- Json2.js(<http://www.json.org/js.html>)
 - JSON.parse(jsonText);
 - JSON.stringify(json);

- Server JSON Helper class

- DataContractJsonSerializer
 - JSON.Parse<T>(jsonText);
 - JSON.Stringify(T);

Ajax History

- 기록지점을 만들어 브라우저 기록스택에 추가하면 되는데..
- 브라우저 기록은 어떻게?
- 상태유지는 어떻게?

Ajax History

- ASP.NET AJAX History – Server
 - ScriptManager
 - AddHistoryPoint(key, value, title)
 - onnavigate event handler

Ajax History

- ASP.NET AJAX History – Client

- Sys.Application

- addHistoryPoint({ key:value }, title)

- add_navigate(handler)

DEMO

jQuery-UI

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Visual C# MVP

NEXON, 훈스닷컴

DEMO

Client Data Binding

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NEXON, 훈스닷컴

DEMO

Using ASP.NET Services

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DEMO

Ajax History

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SUMMARY

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