Fundamental JQuery

TRAINING HARI #3 - ACHMAD SOLICHIN (@ACHMATIM)

Agenda

- ☐ Apa itu JQuery?
- ☐ jQuery Basics
- Animating, Scrolling, Resizing
- ☐ Image and Slideshow
- ☐ Forms

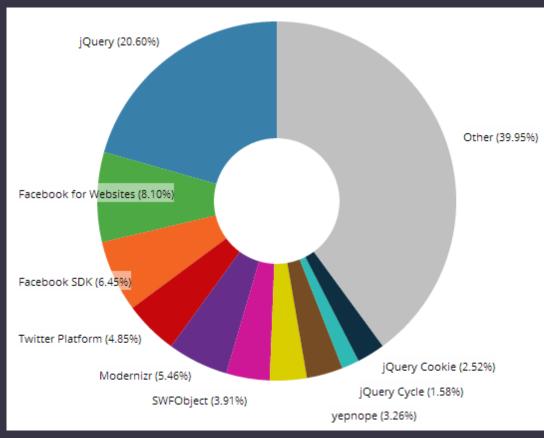
Apa itu JQuery?

Apa itu JQuery?

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript. (http://jquery.com)



JQuery Usage Statistics



Sumber: http://trends.builtwith.com/javascript/

Mengapa JQuery?

- Mengakses bagian halaman tertentu dengan mudah.
- Dapat mengubah tampilan bagian halaman tertentu saja.
- Mengubah isi dari halaman.
- Merespond interaksi user dalam halaman
- Menambahkan animasi ke halaman
- Mengambil informasi dari server tanpa me-refresh seluruh halaman
- Menyederhanakan penulisan Javascript biasa.

Kegunaan JQuery

- Mengakses bagian halaman tertentu dengan mudah.
- Dapat mengubah tampilan bagian halaman tertentu saja.
- Mengubah isi dari halaman.
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- Menyederhanakan penulisan Javascript biasa.

JQuery Basics

Download dan Install

Download

http://jquery.com

☐ Install (local)

<script src="path/to/jquery.js"></script>

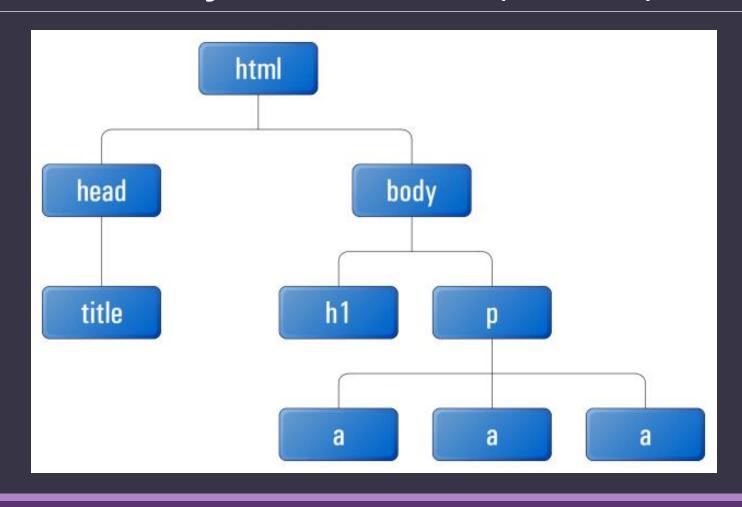
☐ Install (CDN) — Content Delivery Network

```
<script src="http://code.jquery.com/jquery.js"></script>
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.4.0/
jquery.min.js"></script>
```

Struktur JQuery

selector	action	parameters
jQuery('p')	.css	('color', 'blue');
\$(' p')	.css	('color', 'blue');

Document Object Model (DOM)



JQuery Hello World!

```
$(document).ready(function() {
    alert('Hello World!');
});

$(function() {
    alert('Ready to do your bidding!');
});
```

Selector

```
☐ Tag
```

```
$(\h2')
```

```
$('#celebs')
```

Class

```
$('.data')
```



Selector

```
$(document).ready(function() {
  alert($('#celebs tr').length + ' elements!');
$(document).ready(function() {
  alert($('#celebs tbody tr').length + ' elements!');
});
$(document).ready(function() {
  alert($('#celebs tbody tr:even').length + ' elements!');
});
$('p,div,h1,input')
```

Contoh

```
<head>
          <title>Belajar JQuery</title>
          <script type="text/javascript" src="jquery-1.3.min.js"></script>
          <script type="text/javascript">
         $(document).ready(function(){
    $('a.show').click(function() {
                 $('p.jquery').show("slow");
             3);
             $('a.hide').click(function() {
                 $('p.jquery').fadeOut("slow");
             3);
          });
          </script>
      </head>
      <body>
          <h1>Hello World with JQuery</h1>
          <a href="" class="show">Show</a> <a href="" class="hide">Hide</a>
          atau dengan kata lain kesederhanaan dalam penulisan code, tetapi menghasilnya
          tampilan yang lebih. Inilah yang menjadi daya tarik tersendiri buat para pengembang
          web untuk menggunakan <a href="http://jguery.com">JQuery</a>.
          </body>
```

jQuery dan CSS

Membaca Property CSS

```
$(document).ready(function() {
  var fontSize = $('#celebs tbody tr:first').css('font-size');
  alert(fontSize);
});
```

Mengubah Property CSS

```
$(document).ready(function() {
    $('#celebs tbody tr:even').css('background-color','#dddddd');
});

$('#celebs tbody tr:even').css('background-color','#dddddd');
$('#celebs tbody tr:even').css('color', '#6666666');

$('#celebs tbody tr:even').css(
    {'background-color': '#dddddd', 'color': '#666666')}
);
```

jQuery dan CSS

Menambah dan Menghapus Class CSS

```
.zebra {
  background-color: #dddddd;
  color: #666666;
}

$('#celebs tr:even').addClass('zebra');

$('#celebs tr.zebra').removeClass('zebra');
```

jQuery Event Handler

HTML

```
<input type="button" id="hideButton" value="hide" />
```

Menyembunyikan suatu komponen pada saat tombol diklik

```
$('#hideButton').click(function() {
   $('#disclaimer').hide();
});
```

☐ Selector 'this' yang mengacu pada lingkup dirinya sendiri

```
$('#hideButton').click(function() {
   $(this).hide(); // a curious disappearing button.
});
```

jQuery Event Handler

☐ Toggle (Show/Hide)

```
$('#toggleButton').click(function() {
  if ($('#disclaimer').is(':visible')) {
    $('#disclaimer').hide();
  } else {
    $('#disclaimer').show();
  }
});
```

jQuery Manipulasi Elemen

Menambahkan elemen baru

```
$('<input type="button" value="toggle" id="toggleButton">')
    .insertAfter('#disclaimer');

$('<input type="button" value="toggle" id="toggleButton">')
    .insertBefore('#disclaimer');

$('<strong>START!</strong>').prependTo('#disclaimer');

$('<strong>END!</strong>').appendTo('#disclaimer');
Menambahkan di dalam elemen
```

☐ Menghapus elemen

```
  We recommend that you have JavaScript enabled!

$('#no-script').remove();
```

jQuery Manipulasi Elemen

☐ Mengganti Isi Elemen

```
$('p').html('good bye, cruel paragraphs!');
$('h2').text('All your titles are belong to us');

$('p').html('<strong>Warning!</strong> Text has been replaced ... ');
$('h2').text('<strong>Warning!</strong> Title elements can be ...');
```

☐ Apa perbedaan .html() dan .text()?

jQuery mouseover() dan hover()

```
background-color: #FFFACD;
}

$('#celebs tr').mouseover(function() {
   $(this).addClass('zebraHover');
});

$('#celebs tr').mouseout(function() {
   $(this).removeClass('zebraHover');
});
```

tr.zebraHover {

```
$('#celebs tbody tr').hover(function() {
   $(this).addClass('zebraHover');
}, function() {
   $(this).removeClass('zebraHover');
});
```

JQuery Animating, Scrolling, Resizing

jQuery animate()

Animasi di semua paragraf saat halaman ditampilkan

```
$('p').animate({
  padding: '20px',
  borderBottom: '3px solid #8f8f8f',
  borderRight: '3px solid #bfbfbf'
}, 2000);
```

Animasi aktif saat hover()

```
$('#navigation li').hover(function() {
   $(this).animate({paddingLeft: '+=15px'}, 200);
}, function() {
   $(this).animate({paddingLeft: '-=15px'}, 200);
});
```

Color Animation

```
$('#disclaimer').animate({'backgroundColor':'#ff9f5f'}, 2000);
```

jQuery animate()

Easing

```
$('p:first').toggle(function() {
    $(this).animate({'height':'+=150px'}, 1000, 'linear');
}, function() {
    $(this).animate({'height':'-=150px'}, 1000, 'swing');
});
```

```
$('p:first').animate({height: '+=300px'}, 2000, 'easeOutBounce');
$('p:first').animate({height: '-=300px'}, 2000, 'easeInOutExpo');
$('p:first').animate({height: 'hide'}, 2000, 'easeOutCirc');
$('p:first').animate({height: 'show'}, 2000, 'easeOutElastic');
```

jQuery animate() - Bouncing

```
<div id="bio">
 <h2>Who's Hot Right Now?</h2>
 <h3>Beau Dandy</h3>
 <div>
   <img src="../images/beau_100.jpg" width="100"</pre>
     height="100" alt="Beau Dandy"/>
   Content about Beau Dandy
 </div>
 <h3>Johnny Stardust</h3>
 <div>
   <img src="../images/johnny 100.jpg" width="100"</pre>
     height="100" alt="Johny Stardust"/>
   Content about Johny Stardust
 </div>
 <h3>Glendatronix</h3>
 <div>
   <img src="../images/glenda_100.jpg" width="100"</pre>
     height="100" alt="Glendatronix"/>
   Content about Glendatronix
 </div>
</div>
```

```
$('#bio h3').click(function() {
   $(this).next().animate(
       {'height':'toggle'}, 'slow', 'easeOutBounce'
   );
});
```

jQuery animate() - Animated Navigation

```
<a href="#">Home</a><a href="#">About Us</a><a href="#">Buy!</a><a href="#">Gift Ideas</a>
```

```
$('<div id="navigation_blob"></div>').css({
  width: $('#navigation li:first a').width() + 10,
  height: $('#navigation li:first a').height() + 10
}).appendTo('#navigation');
```

```
// Mouse over function
$('#navigation_blob').animate(
    {width: $(this).width() + 10, left: $(this).position().left},
    {duration: 'slow', easing: 'easeOutElastic', queue: false}
);
```

```
// Mouse out function
$('#navigation_blob')
.stop(true)
.animate(
    {width: 'hide'},
    {duration: 'slow', easing: 'easeOutCirc', queue: false}
)
.animate(
    {left: $('#navigation li:first a').position().left;},
    'fast'
);
}
```

jQuery Scrolling

Fungsi scroll()

```
$('#news').scroll(function() {
   $('#header')
       .append('<span class="scrolled">You scrolled!</span>');
});
```

☐ Floating Navigation

```
#navigation {
   position: relative;
}

#content {
   height: 2000px;
}
```

```
$(window).scroll(function() {
   $('#navigation').css('top', $(document).scrollTop());
});

$(window).scroll(function() {
   $('#navigation')
    .stop()
    .animate({top: $(document).scrollTop()},'slow','easeOutBack');
});
```

jQuery Scrolling

□ Page Scroll → scrollTop

```
$('a[href=#]').click(function() {
   $('html').animate({scrollTop: 0},'slow');
  return false; // Return false to cancel the default link action
}
```

■ Manipulasi Scrollbar → plugin https://code.google.com/p/jscrollpane/

```
$('#fine_print').jScrollPane({
    scrollbarWidth: 10,
    scrollbarMargin: 10,
    showArrows: false
});
iusmod tempor incididunt ut
strud exercitation ullamco laboris
reprehenderit in voluptate velit
t cupidatat non proident, sunt in
```

jQuery Resize

☐ Fungsi resize()

```
$(window).resize(function() {
   alert("You resized the window!");
});
```

■ Membuat komponen dapat diubah ukurannya (resizable)

```
$('p').resizable();
```

Which member of the seminal calypso/lectro band *C&C Music Sweatshop* was spotted last night at *Dirt*, the trendy New York restaurant that serves only food caught and retrieved by the chef's own hands? Yes! It's the ever-effervescent, *Glendatronix*!

Resizable Textarea

```
$('textarea').resizable({
   grid : [20, 20],
   minWidth : 153,
   minHeight : 30,
   maxHeight : 220,
   containment: 'parent'
});
```

JQuery Image & Slideshow

jQuery Lightbox

- ColorBox http://www.jacklmoore.com/colorbox/
- LightBox http://lokeshdhakar.com/projects/lightbox2/
- ☐ FancyBox http://fancybox.net/
- Magnific Popup http://dimsemenov.com/plugins/magnific-popup/
- □ Nivo Lightbox http://dev7studios.com/plugins/nivo-lightbox/
- Featherlight http://noelboss.github.io/featherlight/

jQuery ColorBox

```
$(document).ready(function() {
   $('a[rel="celeb"]').colorbox();
});
```

```
$('a[rel=celeb]').colorbox({
  transition: 'fade',
  speed: 500,
  current: "{current} of {total} celebrity photos"
});
```

jQuery Cropping Image

- Jcrop http://deepliquid.com/content/Jcrop.html
- ☐ Image Cropper https://github.com/fengyuanchen/cropper
- ☐ CropPic http://www.croppic.net/
- ☐ Image Crop (paid) http://codecanyon.net/item/image-crop/5348464
- ☐ CropZoom http://www.cropzoom.com.ar/



jQuery Image Slider

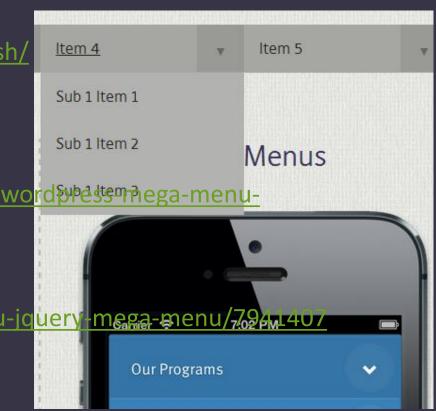
- ☐ ResponsiveSlider http://responsiveslides.com/
- WowSlider http://wowslider.com/
- ☐ Jquery Cycle http://jquery.malsup.com/cycle/
- BxSlider http://bxslider.com/
- ☐ SlideJS http://www.slidesjs.com/
- NivoSlider http://dev7studios.com/plugins/nivo-slider



JQuery Menu, Tabs, Panels, Tooltips

jQuery Menu

- SmartMenu http://www.smartmenus.org/
- SuperFish http://users.tpg.com.au/j birch/plugins/superfish/
- ☐ FlexNav http://jasonweaver.name/lab/flexiblenavigation/
- contextMenu https://github.com/s-yadav/contextMenu.js
- □ NOO Menu (paid) http://codecanyon.net/item/noo-menu-wordfoldstyllagin/7873697
- meanMenu https://github.com/meanthemes/meanMenu
- ☐ Zetta Menu (paid) http://codecanyon.net/item/zetta-menu-jquery-mega-menu/769641407
- And many more...



jQuery Accordion

- liteAccordion http://nicolahibbert.com/demo/liteAccordion/
- Slidorion http://slidorion.com/
- ☐ jQuery UI Accordion http://jqueryui.com
- Flat Jquery Accordion http://cssmenumaker.com/blog/flat-jquery-accordioms-menu-tutorial
- Vertical Accordion Menu <a href="http://thecodeplayer.com/walkthrough/vertical-weigh-we using-jquery-css3
- jQuery Accordion (paid) http://codecanyon.net/item/jquery-accordion/4826492
- And many more...

Widgets

Products

COMPANY

CONTACT

jQuery Tabs

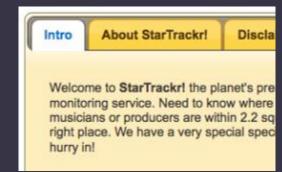
```
$('#info p:not(:first)').hide();

$('#info-nav li').click(function(e) {
    $('#info p').hide();
    $('#info-nav .current').removeClass("current");
    $(this).addClass('current');

var clicked = $(this).find('a:first').attr('href');
    $('#info ' + clicked).fadeIn('fast');
    e.preventDefault();
}).eq(0).addClass('current');
```

jQuery Tabs

- ☐ jQuery UI Tabs http://jqueryui.com
- ☐ EasyTabs http://os.alfajango.com/easytabs
- TabulousJS http://git.aaronlumsden.com/tabulous.js/
- ☐ Google Play's Tabs http://red-team-design.com/google-play-minimal-tabs-with-css3-jquery/
- □ Folder Tabs http://red-team-design.com/css3-jquery-folder-tabs/
- And many more...



jQuery Slide-down Login Panel

```
$('#login form').hide();
$('#login a').toggle(function() {
    $(this)
        .addClass('active')
        .next('form')
        .animate({'height':'show'}, {
            duration:'slow',
            easing: 'easeOutBounce'
        });
}, function() {
    $(this)
        .removeClass('active')
        .next('form')
        .slideUp();
});
```

```
$('#login form :submit').click(function() {
    $(this)
    .parent()
    .prev('a')
    .click();
});
```

jQuery Tooltips

```
// Hover over code
<a href="#" title="Check out all the ... ">New York</a>
                                                              var titleText = $(this).attr('title');
                                                              $(this)
.tooltip {
                                                                .data('tipText', titleText)
  display: none;
                                                                .removeAttr('title');
  position: absolute;
  border: 1px solid #333;
                                                              $('')
  background-color: #ffed8a;
                                                                .text(titleText)
  padding: 2px 6px;
                                                                .appendTo('body')
                                                                .css('top', (e.pageY - 10) + 'px')
                                                                .css('left', (e.pageX + 20) + 'px')
$('.location').hover(function(e) {
                                                                .fadeIn('slow');
  // Hover over code
}, function() {
                                                              // Hover out code
  // Hover out code
                                                              $(this).attr('title', $(this).data('tipText'));
}).mousemove(function(e) {
                                                              $('.tooltip').remove();
  // Mouse move code
});
                                                              // Mouse move code
                                                              $('.tooltip')
                                                                .css('top', (e.pageY - 10) + 'px')
                                                                .css('left', (e.pageX + 20) + 'px');
```

jQuery Tooltips

- ☐ jQuery UI Tooltips http://jqueryui.com
- Tooltipster http://iamceege.github.io/tooltipster/
- qTip2 http://qtip2.com/
- □ qTip http://craigsworks.com/projects/qtip/
- ☐ Toltipsy http://tooltipsy.com/
- ☐ And many more...

JQuery Forms

jQuery Form Validation

http://achmatim.net/2012/05/22/membuat-validasi-form-dengan-jquery-validation/

jQuery Check All Checkboxes

```
<div class="stats">
  <span class="title">Reason for Celebrity</span>
 <input name="reason"
   type="checkbox" value="net" />Famous on the internet<br/>
 <input name="reason"
   type="checkbox" value="crim" />Committed a crime<br />
 <input name="reason"
   type="checkbox" value="model" />Dates a super model<br />
 <input name="reason"
   type="checkbox" value="tv" />Hosts a TV show<br />
 <input name="reason"
   type="checkbox" value="japan" />Big in Japan<br />
 <hr />
 <input class="check-all"</pre>
   name="reason" type="checkbox" /><span>Check all</span>
</div>
```

```
$('.check-all:checkbox').change(function() {
  var group = ':checkbox[name=' + $(this).attr('name') + ']';
  $(group).attr('checked', $(this).attr('checked'));
});
```

jQuery Autocomplete

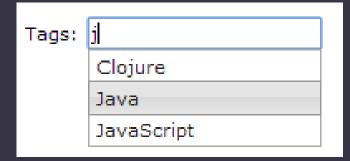
```
<label for="location">Last known whereabouts:</label>
<input type="text" id="location"/>

var cities = ['New York', 'Melbourne', 'Montreal', 'London' ... ];
$('#location').autocomplete(cities,{
   autoFill: true,
   selectFirst: true,
   width: '240px'
});
```

```
$('#location')
   .autocomplete(cities)
   .result(function(event, selection) {
    alert(selection);
});
```

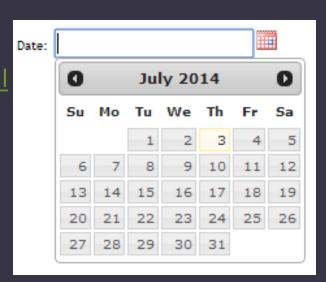
jQuery Autocomplete

- jQuery UI Autocomplete http://jqueryui.com/autocomplete/
- ☐ Autocomplete http://bassistance.de/jquery-plugins/jquery-plugin-autocomplete/
- Ajax Autocomplete http://www.devbridge.com/sourcery/components/jquery-autocomplete/
- ☐ Facebook Like Autocomplete http://www.web2ajax.fr/2008/02/03/facebook-like-jquery-and-autosuggest-search-engine/
- And many more...



jQuery Datepicker

- jQuery UI Datepicker http://jqueryui.com/datepicker
- □ DatePicker http://www.eyecon.ro/datepicker/
- Bootstrap Datepicker http://www.eyecon.ro/bootstrap-datepicker/
- ☐ glDatePicker http://glad.github.com/glDatePicker/
- ☐ Zebra DatePicker http://stefangabos.ro/jquery/zebra-datepicker/
- ptTimeSelect http://pttimeselect.sourceforge.net/example/index.html
- And many more...



jQuery Slider

☐ jQuery UI Slider – http://jqueryui.com/slider



Resources

- (Book) Jquery Novice to Ninja. Sitepoint
- □ http://jquery.com
- http://jqueryui.com
- □ http://achmatim.net

Terima Kasih

- □ http://achmatim.net
- □ <u>achmatim@gmail.com</u>
- http://twitter.com/achmatim
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- http://slideshare.net/achmatim

