

Front-End Development



Simplifying JavaScript

Introduction

jQuery is a fast, small, & 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.

- Insert CDN link (*Works Online*)
Copy the code from code.jquery.com
Insert it on HTML <head> first!

Code Integration

```
<script  
  src="https://code.jquery.com/jquery-3.3.1.min.js"  
  integrity="sha256-FgpCb/KJQlLNfOu91ta32o/NMZxltwRo8QtmkMRdAu8=""  
  crossorigin="anonymous"></script>
```

The `integrity` and `corsorigin` attributes are used for [Subresource Integrity \(SRI\) checking](https://w3c.github.io/subresource-integrity/). This allows browsers to ensure that resources hosted on third-party servers have not been tampered with. Use of SRI is recommended as a best-practice, whenever libraries are loaded from a third-party source. Read more at srihash.org

- Download from jquery.com (*Works Offline*)
Save its file on your project directory (better on js folder), then link it to your HTML file.

```
<head>  
<script  
src="js/jquery-3.3.1.min.js">  
</script>  
</head>
```

1st jQuery Code

```
<head>
  <script src="js/jquery-3.3.1.min.js">
  </script>
</head>
<body>
  <h1> Belajar jQuery </h1>
  <script>
    $(document).ready(function(){
      $('h1').hide();
      // $('h1').show();
      // $('*').hide();
    });
  </script>
</body>
```



Selectors

```
<body>
  <h1 class="iniclass">Halo jQuery</h1>
  <h1 id="iniid">jQuery Itu Asik</h1>
  <p>Yuk kuasai <span>jQuery</span>!</p>
  <script>
    $(document).ready(function(){
      $('.iniclass').css('color', 'pink');
      $('#iniid').css('color', 'blue');
      $('p span').css('color', 'red');
    });
  </script>
</body>
```

Selectors

```
<body>
  <h1 class="iniclass">HaLo</h1>
<script>
  $(document).ready(function(){
    $(' .iniclass' ).css({
      color: 'pink',
      background: 'black' });
  });
</script>
</body>
```

Nested Selectors

```
<body>
  <ul class="daftar">
    <li>Andi</li>
    <li>Budi</li>
    <li>Caca</li>
    <li>Dedi</li>
  </ul>
  <script>
    $(document).ready(function(){
      $(' .daftar').css('background-color','yellow');
      $(' .daftar li:first').css('color','red');
      $(' .daftar li:last').css('color','blue');
      // $(' .daftar li:even').css('color','red');
      // $(' .daftar li:odd').css('color','blue');
    });
  </script>
</body>
```


Attribute Selectors

```
<body>
  <p><input type="text" value="Ketik di sini!">
  <p><input type="submit" value="Tombol 1">
  <p><input type="button" value="Tombol 2">
  <p><a href="http://google.com">Link 1</a>
  <p><a href="http://yahoo.com">Link 2</a>
<script>
  $(document).ready(function(){
    // $(':text').hide();
    // $(':submit').hide();
    // $(':button').hide();
    $(' [href]').css('color', 'pink');
    $('a[href="http://yahoo.com"]').css('color', 'red');
  });
</script>
</body>
```



Event *Click Alert*

```
<body>
  <button id="tombol1">Tombol 1</button>
  <button id="tombol2">Tombol 2</button>
<script>
  $(document).ready(function(){
    $('#tombol1').click(function(){
      alert('Tombol 1 ditekan!');
    });
    $('#tombol2').on('click', function(){
      alert('Tombol 2 ditekan!');
    });
  });
</script>
</body>
```

Event

Click Show & Hide

```
<body>
  <button id="tombol1">Tombol 1</button>
  <button id="tombol2">Tombol 2</button>
  <p class="note">Halo Dunia!</p>
<script>
  $(document).ready(function(){
    $('#tombol1').click(function(){
      $('.note').hide();
    });
    $('#tombol2').on('click', function(){
      $('.note').show();
    });
  });
</script>
</body>
```

Event

Click Toggle

```
<body>
  <button id="tombol1">Tombol 1</button>
  <p class="note">Halo Dunia!</p>
<script>
  $(document).ready(function(){
    $('#tombol1').click(function(){
      $('.note').toggle();
    });
  });
</script>
</body>
```

Event

Click Toggle with Delay

```
<body>
  <button id="tombol1">Tombol 1</button>
  <p class="note">Halo Dunia!</p>
<script>
  $(document).ready(function(){
    $('#tombol1').click(function(){
      $('.note').toggle(1000, function(){
        alert('Tombol ditekan!');
      });
    });
  });
</script>
</body>
```

Event

Double-Click

```
<body>
  <button id="tombol1">Tombol 1</button>
  <p class="note">Halo Dunia!</p>
<script>
  $(document).ready(function(){
    $('#tombol1').dblclick(function(){
      $('.note').toggle();
    });
  });
</script>
</body>
```

Event Hover

```
<body>
  <button id="tombol1">Tombol 1</button>
  <p class="note">Halo Dunia!</p>
<script>
  $(document).ready(function(){
    $('#tombol1').hover(function(){
      $('.note').toggle();
    });
  });
</script>
</body>
```

Event

Mouse Move

```
<body>
  <button id="tombol1">Tombol 1</button>
  <p class="note">Halo Dunia!</p>
<script>
$(document).ready(function(){
  $('#tombol1').on('mousemove', function(){
    $('.note').toggle();
  });
});
</script>
</body>
```


Event

Mouse Up & Down

```
<body>
  <button id="tombol1">Tombol 1</button>
  <p class="note">Halo Dunia!</p>
<script>
$(document).ready(function(){
  $('#tombol1').on('mousedown', function(){
    $('.note').toggle();
  });
  $('#tombol1').on('mouseup', function(){
    $('.note').toggle();
  });
});
</script>
</body>
```

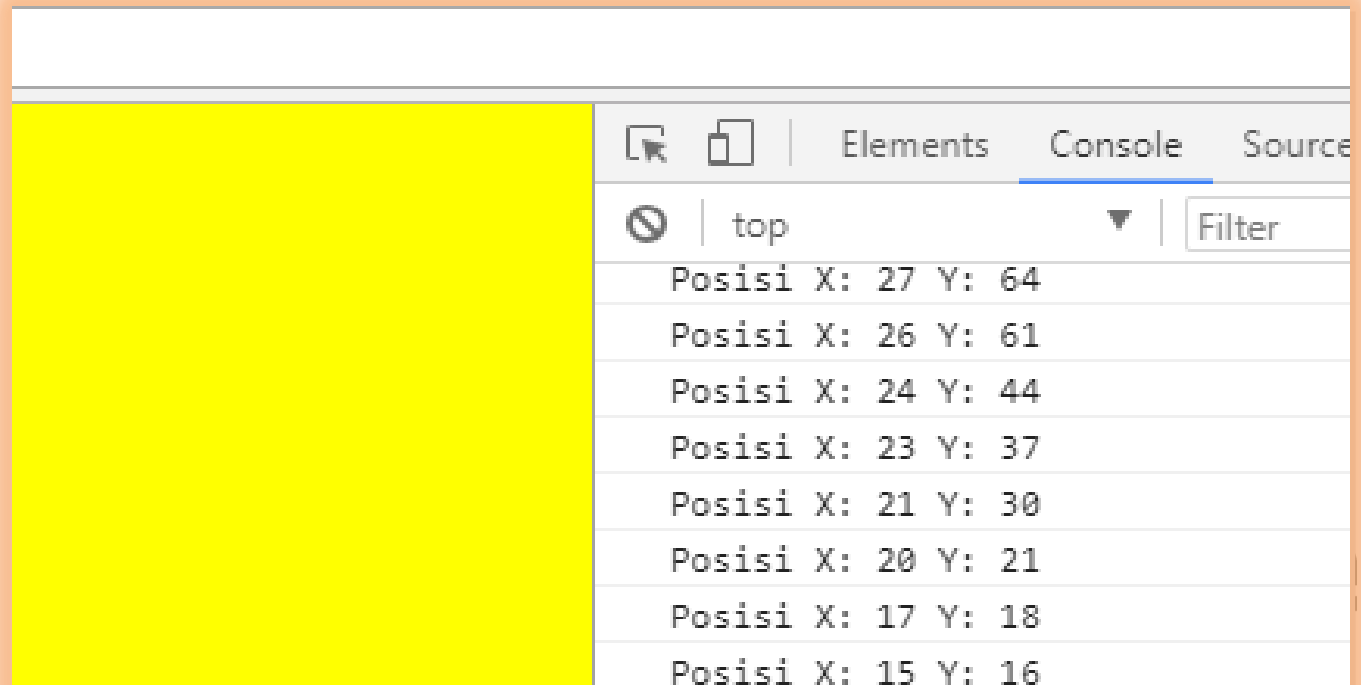


Getting Information from Browser

```
<body>
  <button id="tombol1">Tombol 1</button>
<script>
  $(document).ready(function(){
    $('#tombol1').click(function(x){
      console.log(x);
      // alert(x.currentTarget.id);
      // alert(x.currentTarget.innerHTML);
      // alert(x.currentTarget.outerHTML);
    });
  });
</script>
</body>
```

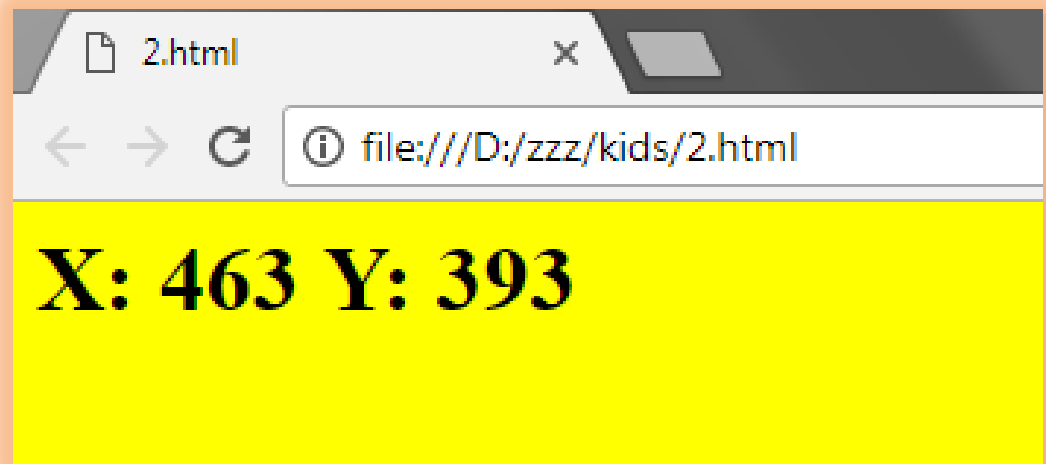
Getting Information: Cursor Position

```
<body style="background-color:yellow">
<script>
$(document).ready(function(){
$(document).on('mousemove', function(pos){
console.log('X: '+pos.clientX+ ' Y: '+pos.clientY);
});
});
</script>
</body>
```



Getting Cursor Position & Embed on Browser

```
<body style="background-color:yellow">
  <h1 id="a"></h1>
<script>
$(document).ready(function(){
$(document).on('mousemove', function(z){
$( '#a' ).html( 'X: ' +z.clientX+ ' Y: ' +z.clientY);
});
});
</script>
</body>
```





Event *Input Form*

```
<body>
  <input type="text">
<script>
  $(document).ready(function(){
    $('input').focus(function(){
      $(this).css('background', 'pink');
    });
    $('input').blur(function(){
      $(this).css('background', 'yellow');
    });
  });
</script>
</body>
```

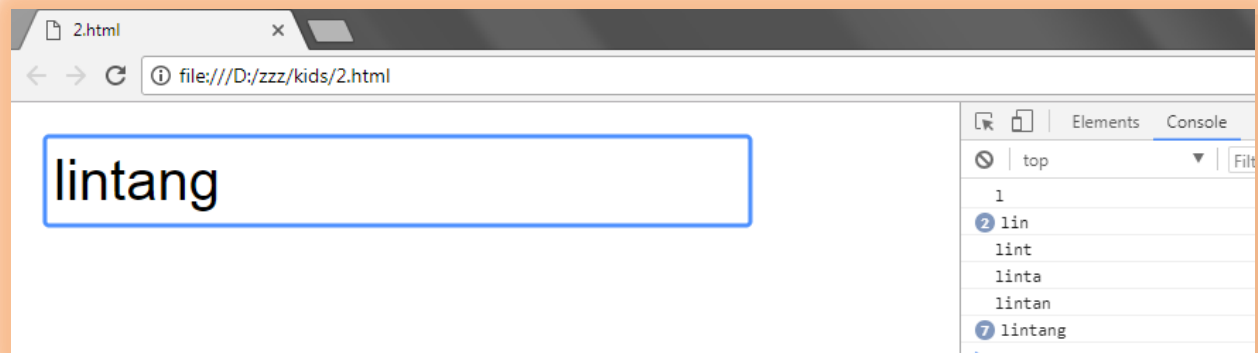
input di sini!

input di sini!

Event

Get User Input

```
<body>
  <input type="text">
<script>
  $(document).ready(function(){
    $('input').keyup(function(x){
      console.log(x.target.value);
    });
    //try too: .keydown
  });
</script>
</body>
```





Event

Select Form

```
<body>
  <select id="sex">
    <option value="Aku_Pria">Laki-laki
  </option>
    <option value="Aku_Wanita">Perempuan
  </option>
  </select>
<script>
$(document).ready(function(){
  $('select#sex').change(function(pilih){
    alert(pilih.target.value);
  });
});
</script>
</body>
```



Event

Full Form

```
<body>
  <form id="formulir">
    <p><input type="text" id="nama">
    <p><input type="number" id="usia">
    <p><select id="sex">
      <option value="pria">Laki-laki</option>
      <option value="wanita">Perempuan</option>
    </select>
    <p><input type="submit">
  </form>
<script>
  $( '#formulir' ).submit(function(x){
    x.preventDefault();
    console.log( 'Formulir terisi!' );
  });
</script>
</body>
```


Event

Get User Form Input

```
<script>
  $( '#formulir' ).submit(function(x){
    x.preventDefault();
    var nama = $( 'input#nama' ).val();
    var usia = $( 'input#usia' ).val();
    var sex = $( 'select#sex' ).val();
    console.log(nama+usia+sex);
  });
</script>
```

Front-End Development



Simplifying JavaScript