DOM

DOM (Document Object Model) is a platform & language neutral interface that will allow programs & scripts to dynamically access & update the content, structure & style of documents.

It means DOM is an API to work with HTML-like document. Manipulating DOM means using this API to change the document: adding, removing or moving elements.

DOM Manipulation
Add/Remove Class

```html
<head>
    <script src="js/jquery-3.3.1.min.js"></script>
    <style>
    .myClass {
        color:yellow;
        background:blue;
    }
    </style>
</head>
<body>
    <div id="container">
        <button id="btn1">Tombol</button>
        <p class="para1">Ini paragraf 1</p>
        <p class="para2">Ini paragraf 2</p>
    </div>
<script>
    $(document).ready(function(){
      // $('p.para1').css({color:'red', background:'yellow'});
      // $('p.para2').addClass('myClass');
      // $('p.para2').removeClass('myClass');
    });
</script>
</body>
```

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```html
<head>
    <script src="js/jquery-3.3.1.min.js"></script>
    <style>
    .myClass {
        color:yellow;
        background:blue;
    }
    </style>
</head>
<body>
    <div id="container">
        <button id="btn1">Tombol</button>
        <p class="para1">Ini paragraf 1</p>
        <p class="para2">Ini paragraf 2</p>
    </div>
<script>
    $(document).ready(function(){
        $('#btn1').click(function(){
            $('p.para1').toggleClass('myClass');
            $('p.para2').toggleClass('myClass');
        });
    });
</script>
</body>
```

DOM Manipulation
Toggle Class

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DOM Manipulation
Set Content Value

```html
<body>
    <div id="myDiv"></div>
<script>
    $(document).ready(function(){
    // $('#myDiv').text('Halo semuanya!');
    // $('#myDiv').html('<h1>Halo!</h1>');
    // alert($('#myDiv').text());
    });
</script>
</body>
```

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```html
<body>
    <p class="para1">Ini paragraf 1</p>
    <p class="para2">Ini paragraf 2</p>
    <ul>
        <li>Ini list 1</li>
        <li>Ini list 2</li>
        <li>Ini list 3</li>
    </ul>
<script>
  $(document).ready(function(){
    // $('.para1').appendTo('.para2');
    // $('.para1').prependTo('.para2');
    // $('ul').append('<li>Ini append list</li>');
    // $('ul').prepend('<li>Ini prepend list</li>');
    // $('ul').before('<h4>Berikut adalah list:</h4>');
    // $('ul').after('<h4>Demikianlah list.</h4>');
    // $('ul').empty();
    // $('ul').detach();
  });
</script>
</body>
```

DOM Manipulation
Append & Prepend

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```html
<body>
    <p class="para1">Ini paragraf 1</p>
    <p class="para2">Ini paragraf 2</p>
    <ul>
        <li>Ini list 1</li>
        <li>Ini list 2</li>
        <li>Ini list 3</li>
    </ul>
<script>
  $(document).ready(function(){
    var x = $('.para1').text();
    $('ul').append('<li>' + x + '</li>');
  });
</script>
</body>
```

DOM Manipulation
Append & Prepend

DOM Manipulation
Add Attribute

```
<body>
  <a href="http://google.com">Klik!</a>
<script>
  $(document).ready(function(){
    // $('a').attr('target','_blank');
    // alert($('a').attr('href'));
    // $('a').removeAttr('target');
  });
</script>
</body>
```

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DOM Manipulation
Wrap Elements

```html
<body>
  <p class="para1">Ini paragraf 1</p>
  <p class="para2">Ini paragraf 2</p>
<script>
  $(document).ready(function(){
    // $('p').wrap('<h1>');
    // $('p').wrapAll('<h1>');
  });
</script>
</body>
```

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DOM Manipulation
Print Array On Console

```html
<body>
<script>
$(document).ready(function(){
  var myArr = ['Andi','Budi','Caca'];
  $.each(myArr, function(i,val){
    console.log(val);
  });
});
</script>
</body>
```

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DOM Manipulation
Print Array On Web Page

```html
<body>
  <ul id="users"></ul>
<script>
$(document).ready(function(){
  var myArr = ['Andi','Budi','Caca'];
  $.each(myArr, function(i,x){
    $('#users').append('<li>'+x+'</li>');
  });
});
</script>
</body>
```

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DOM Manipulation
Convert Lists to Array

```html
<body>
  <ul id="list">
    <li>Andi</li>
    <li>Budi</li>
    <li>Caca</li>
  </ul>
<script>
$(document).ready(function(){
  var newArr = $('ul#list li').toArray();
    $.each(newArr, function(i,val){
      console.log(val.innerHTML);
    });
});
</script>
</body>
```
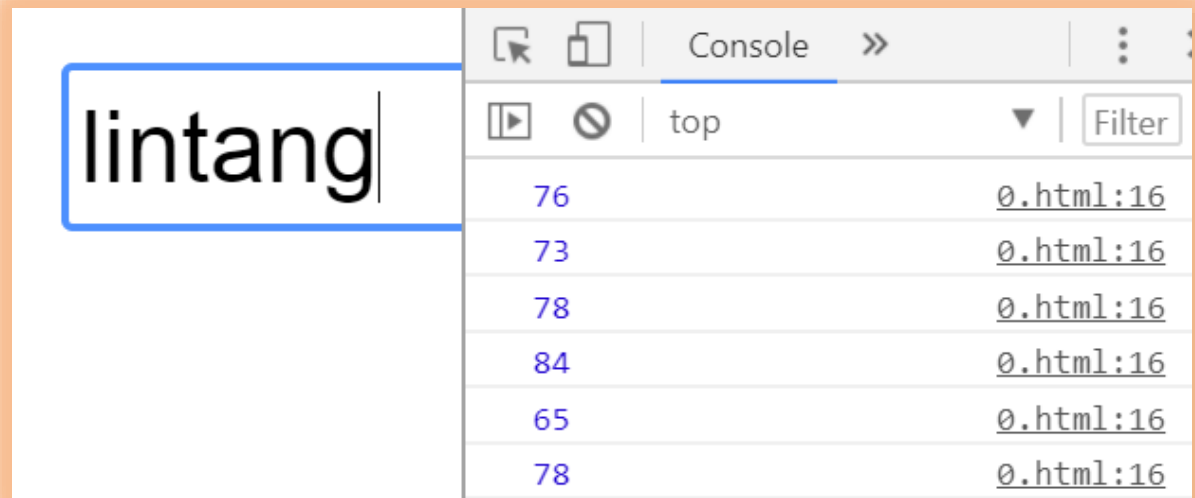
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backspace	8	e	69	numpad 8	104	insert	45	v	86	f11	122
tab	9	f	70	numpad 9	105	delete	46	w	87	f12	123
enter	13	g	71	multiply	106	0	48	x	88	num lock	144
shift	16	h	72	add	107	1	49	y	89	scroll lock	145
ctrl	17	i	73	subtract	109	2	50	z	90	semi-colon	186
alt	18	j	74	decimal point	110	3	51	left window key	91	equal sign	187
pause/break	19	k	75	divide	111	4	52	right window key	92	comma	188
caps lock	20	l	76	f1	112	5	53	select key	93	dash	189
escape	27	m	77	f2	113	6	54	numpad 0	96	period	190
page up	33	n	78	f3	114	7	55	numpad 1	97	forward slash	191
page down	34	o	79	f4	115	8	56	numpad 2	98	grave accent	192
end	35	p	80	f5	116	9	57	numpad 3	99	open bracket	219
home	36	q	81	f6	117	a	65	numpad 4	100	back slash	220
left arrow	37	r	82	f7	118	b	66	numpad 5	101	close braket	221
up arrow	38	s	83	f8	119	c	67	numpad 6	102	single quote	222
right arrow	39	t	84	f9	120	d	68	numpad 7	103		
down arrow	40	u	85	f10	121						

JavaScript Key Codes

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```
<body>
    <input type="text">
<script>
$(document).ready(function(){
$('input').keyup(function(x){
        var code = x.which;
        console.log(code);
});
});
</script>
</body>
```

lintang

Console »

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76	0.html:16
73	0.html:16
78	0.html:16
84	0.html:16
65	0.html:16
78	0.html:16

```
<body>
    <input type="text" id="newItem">
    <ol></ol>
<script>
$(document).ready(function(){
$('#newItem').keyup(function(x){
var code = x.which;
if(code==13){
x.preventDefault();
$('ol').append('<li>'+x.target.value+'</li>');
};
});
});
</script>
</body>
```

paha ayam 2 kg

1. beras 1 kg
2. gula 2 kg
3. paha ayam 2 kg
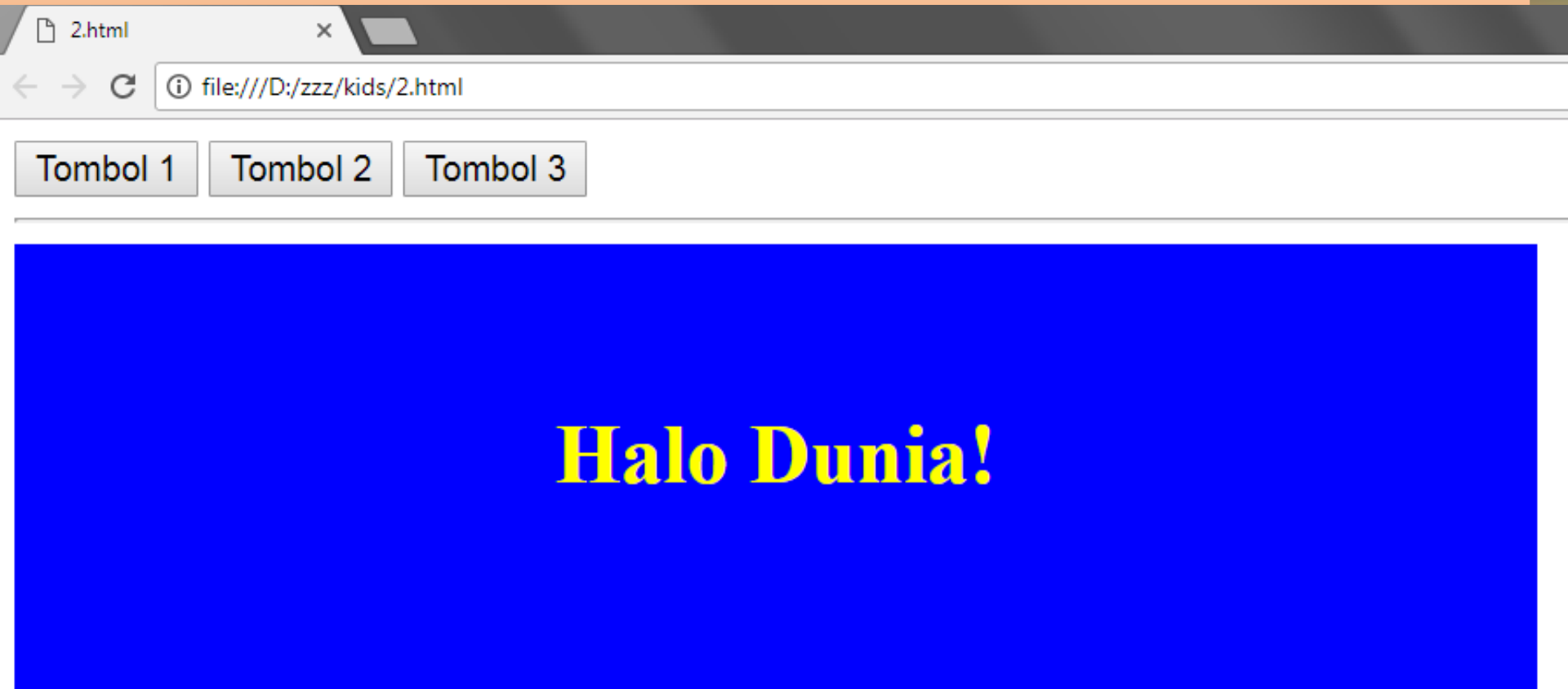
```html
<body>
    <input type="text" id="newItem">
    <ol></ol>
<script>
$(document).ready(function(){
$('#newItem').keyup(function(x){
var code = x.which;
if(code==13){
x.preventDefault();
$('ol').append('<li>'+x.target.value+'</li>');
    $(':text').val('');
    // x.target.value = '';
};});});
</script>
</body>
```

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```
<head>
<script src="js/jquery-3.3.1.min.js">
</script>
<style>
    #box{
        background:blue;
        color:yellow;
        width:500px;
        height:90px;
        padding:40px;
        text-align:center;
    }
</style>
</head>
```
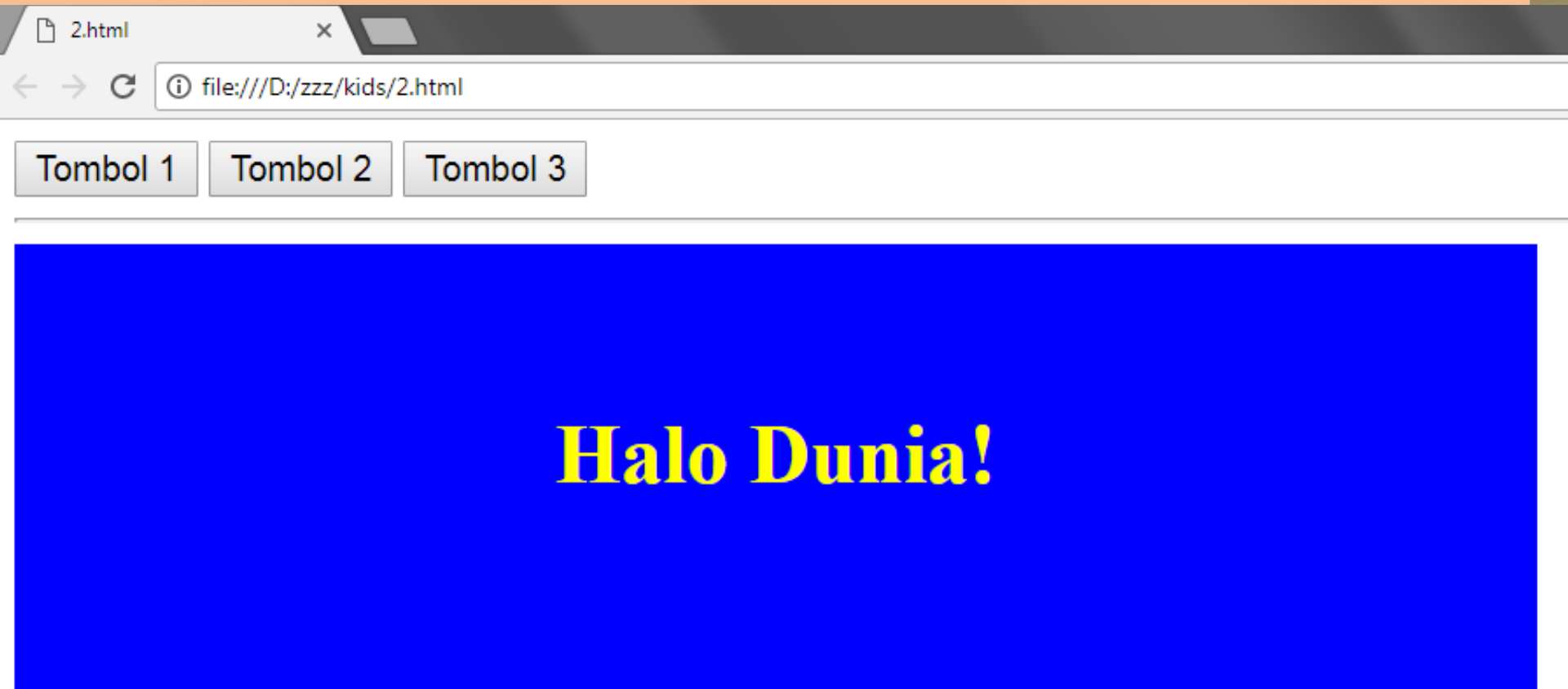
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```html
<body>
<div id="container">
  <button id="tombol1">Tombol 1</button>
  <button id="tombol2">Tombol 2</button>
  <button id="tombol3">Tombol 3</button>
  <hr>
  <div id="box"><h1>Halo Dunia!</h1></div>
</div>
<script>
  $(document).ready(function(){

  });
</script>
</body>
```

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Animation

Animation
Fade Effects

```html
<script>
$(document).ready(function(){
    $('#tombol1').click(function(){
        $('#box').fadeOut();
    });
    $('#tombol2').click(function(){
        $('#box').fadeIn();
    });
    $('#tombol3').click(function(){
        $('#box').fadeToggle();
    });
});
</script>
```

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Animation
Fade Effects Param

```
<script>
$(document).ready(function(){
    $('#tombol1').click(function(){
        $('#box').fadeOut('slow');
    });
    $('#tombol2').click(function(){
        $('#box').fadeIn('fast');
    });
    $('#tombol3').click(function(){
        $('#box').fadeToggle(2000);
    });
});
</script>
```

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Animation
Fade Effects Func

```
<script>
$(document).ready(function(){
  $('#tombol1').click(function(){
    $('#box').fadeOut(2000, function(){
      $('#tombol1').text('Box Hilang!');
    });
  });
});
</script>
```

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Animation
FadeTo Effects

```html
<script>
$(document).ready(function(){
  $('#tombol2').click(function(){
    $('#box').fadeTo(1000, 0.4);
  });
  $('#tombol3').click(function(){
    $('#box').fadeTo(1000, 0.8, function(){
      alert('Halo semuanya!');
    });
  });
});
</script>
```
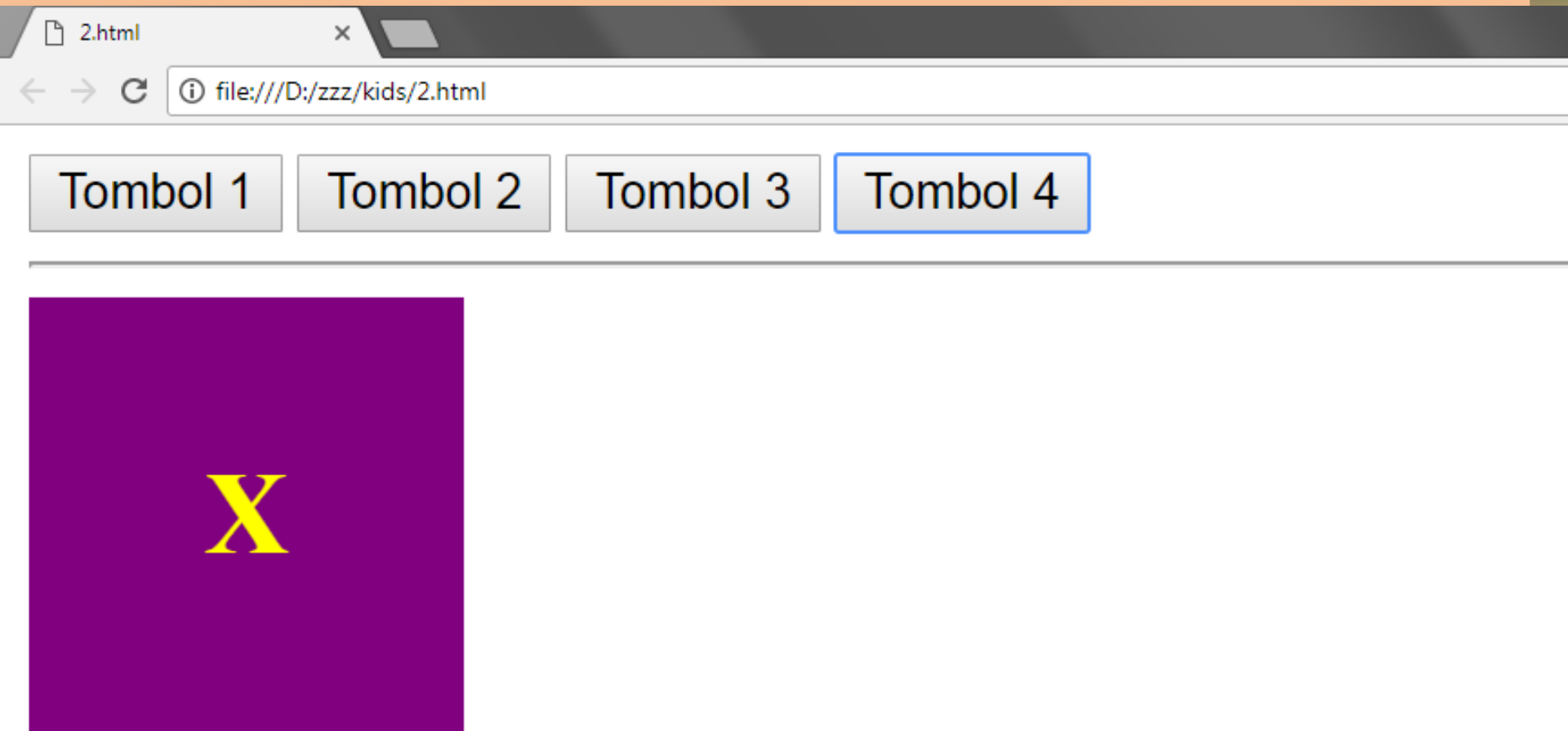
Animation
Slide Effects

```
<script>
$(document).ready(function(){
    $('#tombol1').click(function(){
        $('#box').slideUp(1000);
    });
    $('#tombol2').click(function(){
        $('#box').slideDown(1000);
    });
    $('#tombol3').click(function(){
        $('#box').slideToggle(1000);
    });
});
</script>
```

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Animation

```html
<head>
<script src="js/jquery-3.2.1.min.js">
</script>
<style>
    #box{
        background:purple;
        color:yellow;
        width:80px;
        height:80px;
        position:relative;
        text-align:center;
        padding: 20px
    }
</style>
</head>
```

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```html
<body>
<div id="container">
  <button id="tombol1">Tombol 1</button>
  <button id="tombol2">Tombol 2</button>
  <button id="tombol3">Tombol 3</button>
  <button id="tombol4">Tombol 4</button>
  <hr>
  <div id="box"><h1>X</h1></div>
</div>
<script>
  $(document).ready(function(){

  });
</script>
</body>
```
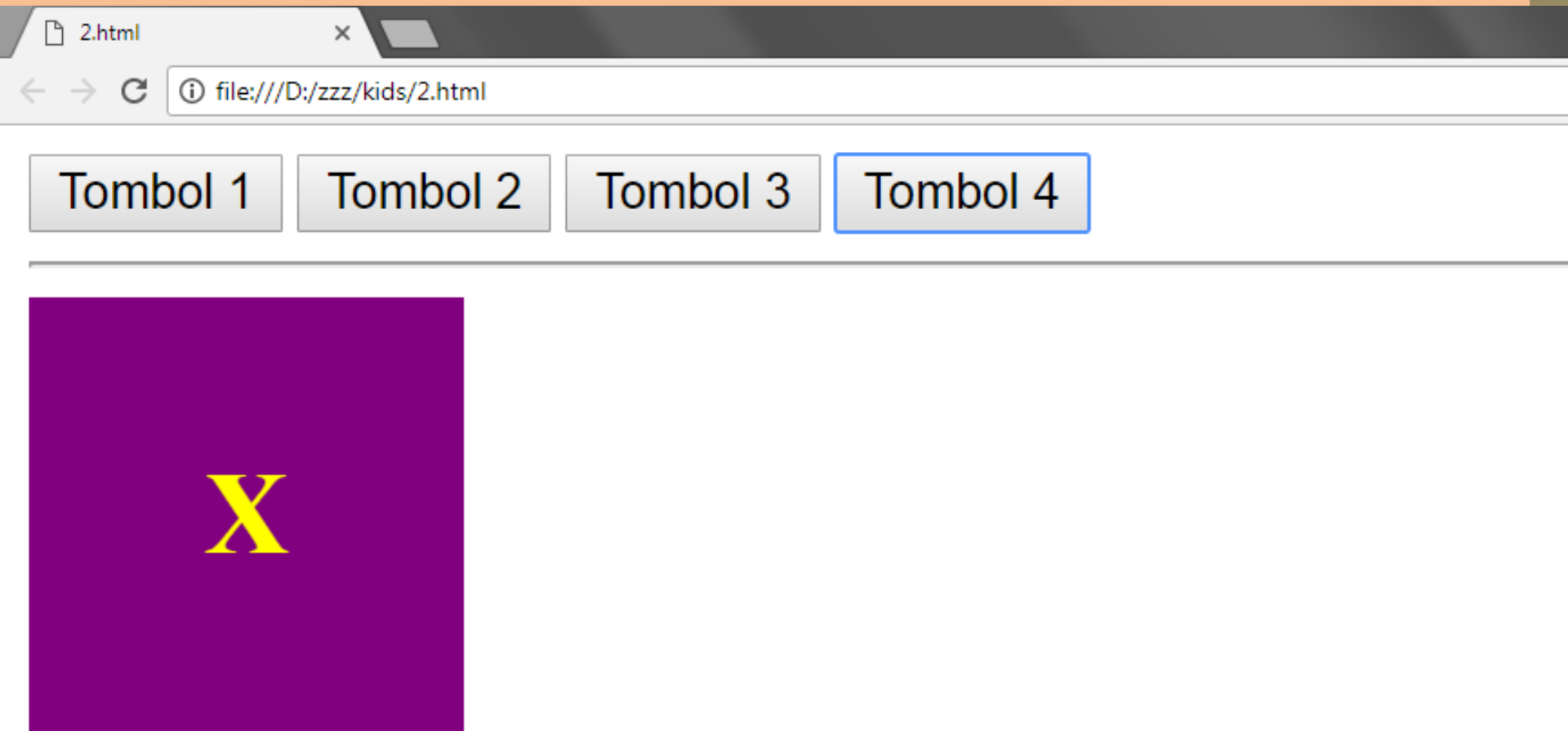
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Animation

```
<script>
$(document).ready(function(){
    $('#tombol1').click(function(){
        $('#box').animate({
            left: 300
        });
    });
    $('#tombol2').click(function(){
        $('#box').animate({
            left: 0
        });
    });
});
</script>
```

```
<script>
$(document).ready(function(){
    $('#tombol3').click(function(){
        $('#box').animate({
            top: 200
        });
    });
    $('#tombol4').click(function(){
        $('#box').animate({
            top: 0
        });
    });
});
</script>
```

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```
<script>
$(document).ready(function(){
    $('#tombol1').click(function(){
        $('#box').animate({
            left: 0,
            height: '400px',
            width: '400px',
            opacity: '0.5'
        }, 2000);
    });
});
</script>
```

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