



# Pemrograman Web

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# JavaScript Library - JQuery

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# What is JQuery ?

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- ✚ JQuery is a fast and concise JavaScript Library that simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development. (jQuery.com)
- ✚ JQuery was created by John Resig and released 01/06
- ✚ Current release  
: 3.2.1 (<https://code.jquery.com/jquery-3.2.1.min.js> )
- ✚ Official web : jquery.com



# What is JQuery ?

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✚ JQuery : Framework JavaScript Open Source yang menyederhanakan proses scripting di sisi client (browser), untuk proses:

- ✚ Animasi
- ✚ DOM Manipulation
- ✚ AJAX
- ✚ Pengembangan library - plugins

# Loading JQuery

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```
<!DOCTYPE html>
<html>
<head>
  <title>JavaScript</title>
  <script language="javascript"
    src="js/jquery.min.js"></script>
</head>
<body>
</body>
</html>
```

```
/praktikum05/
| --- index.html
| --- src/
|   --- css/
|     --- mystyle.css
|   --- js/
|     --- jquery.min.js
```

Dapat juga diletakan di akhir dokumen HTML sebelum tutup tag <body>.

Akses JQuery library dapat juga dilakukan secara online di URL.

```
<script language="javascript"
  src="http://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
```

# JQuery : Penulisan Script

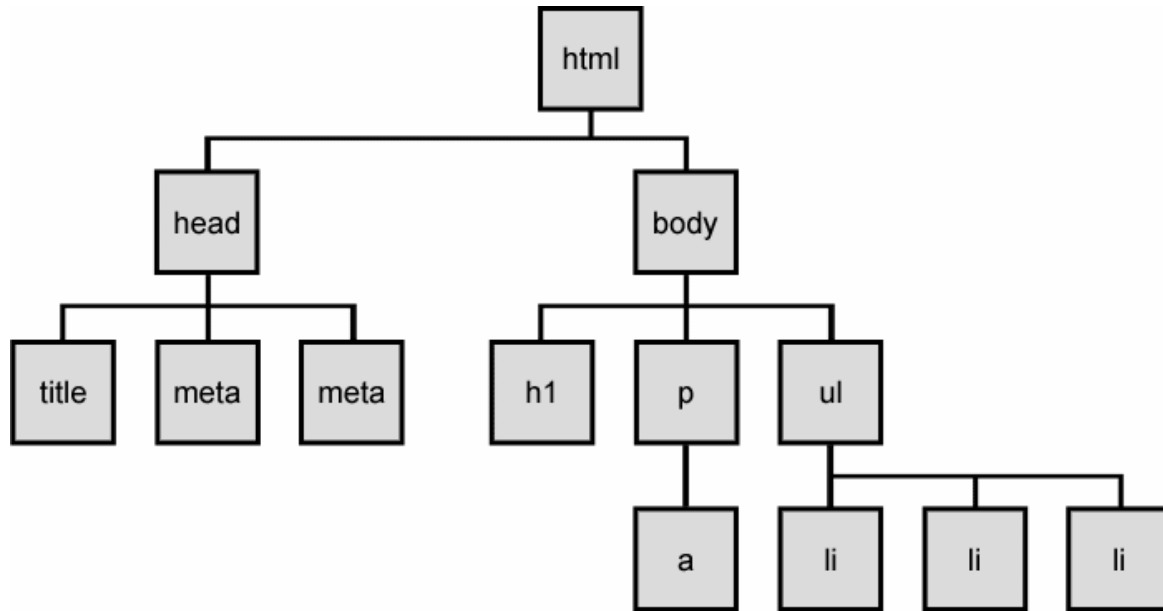
---

```
<script language="JavaScript">
    $( "document" ).ready( function() {
        // The DOM is ready!
        // The rest of the code goes here
    });
</script>
```

Atau cara singkatnya:

```
<script language="JavaScript">
    $(function() {
        // The DOM is ready!
        // The rest of the code goes here
    });
</script>
```

# DOM Tree :: JavaScript DOM Objects



name	description
<a href="#">getElementById</a>	returns array of descendents with the given tag, such as "div"
<a href="#">getElementsByTagName</a>	returns array of descendents with the given tag, such as "div"
<a href="#">getElementsByName</a>	returns array of descendents with the given name attribute (mostly useful for accessing form controls)
<a href="#">querySelector</a> *	returns the first element that would be matched by the given CSS selector string
<a href="#">querySelectorAll</a> *	returns an array of all elements that would be matched by the given CSS selector string

# jQuery - Work

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- HTML

```
<p>Hello World! I'm Eric</p>
```

- Script

```
$(function() {  
    $("p").addClass("isCool");  
    //keep telling yourself that..  
});
```

- Resulting HTML

```
<p class="isCool">Hello World! I'm Eric</p>
```



# jQuery – Detail Proses

```
$(function() { // = $(document).ready(function() {
```

`$`

Initiates the  
jQuery  
function

`$`  
=  
jQuery

`("p")`

Grabs a DOM element using a  
CSS selector.

Selector is in quotes.

Creates a jQuery "Collection"

`<p>`

`.addClass("isCool");`

Built in method that adds a  
class to the jQuery Collection

Class is in quotes.

ends with a semicolon.

```
});
```

# Jquery - Selector

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`$ ("p")`

`<p>`

`$ ("div")`

`<div>`

`$ ("#foo")`

`id="foo"`

`$ (".foo")`

`class="foo"`

[api.jquery.com/category/selectors/](https://api.jquery.com/category/selectors/)

# Get Class Selector

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- jQuery:

```
$ ("p") .addClass ("sophisticated") ;
```

- Before:

```
<p>
```

- After:

```
<p class="sophisticated">
```

# <p> hilangkan attribute class

---

- jQuery:

```
$ ("p") .removeClass ("sophisticated") ;
```

- Before:

```
<p class="sophisticated">
```

- After:

```
<p class="">
```

# <div> Hide and Seek

---

- jQuery:

```
$ ("div") .show ();
```

- Before:

```
<div style="display:none;">
```

- After:

```
<div style="display:block;">
```

# Mengubah konten text

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- jQuery:

```
$("#eric").text("Is Cool");
```

- Before:

```
<p id="eric">Is Lame</p>
```

- After:

```
<p id="eric">Is Cool</p>
```

# Chain Method : Penggunaan method bersamaan

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- `$ ("p")`
  - `.addClass ("sophisticated")`
  - `.text ("Hello World!")`
  - `.show () ;`

# Click Event

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- `$("#eric").click(function() {  
 $(this).text("Is Cool"); // this = #eric  
 alert("Take that High School!");  
});`
- `$("#eric").click(function(event) {  
 $(this).text("Is Cool"); // this = #eric  
 alert("Take that High School!");  
 event.preventDefault(); //Prevents default action  
});`



# Basic Method

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`.show()`

- Show a hidden element

`.wrap("<a></a>")`

- wrap an element with <a>

`.parent("p")`

- Select parent <p>

`.html()`

- Get/Set innerHTML

`.val()`

- Get/Set Value

[api.jquery.com/](http://api.jquery.com/)

# AJAX ?

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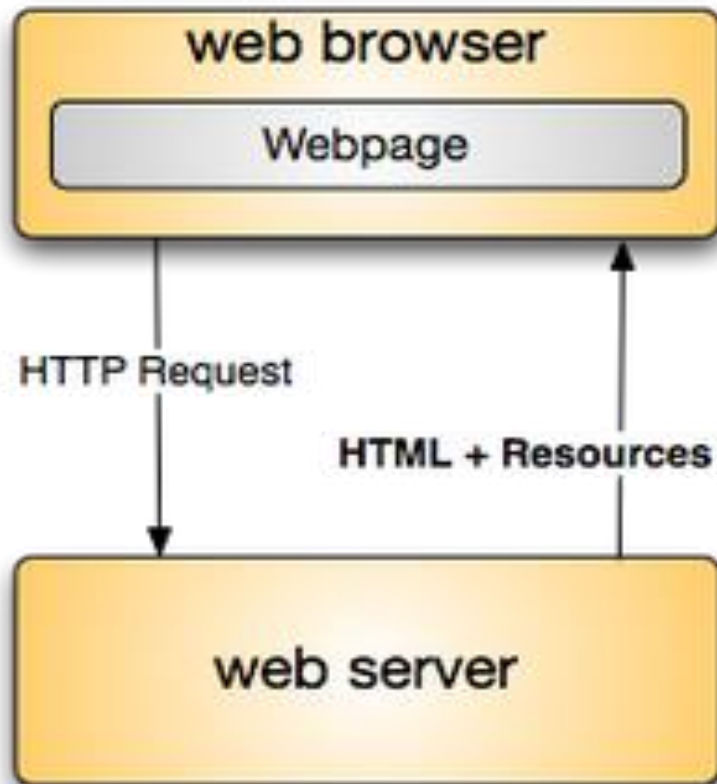
- Ajax bukanlah sebuah teknologi, Melainkan beberapa teknologi didalamnya.

AJAX terdiri dari :

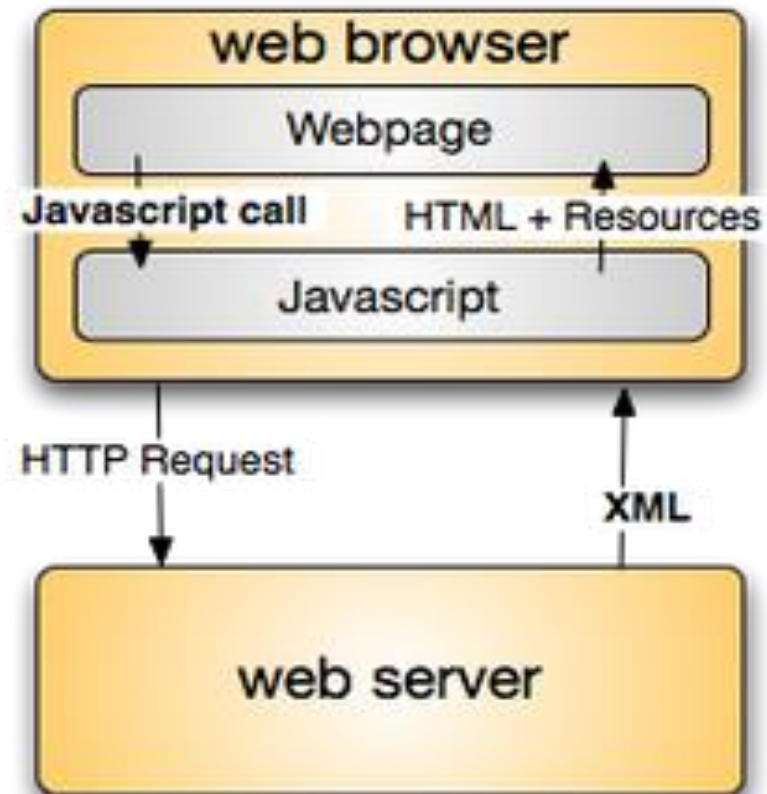
1. Web Standard dengan XHTML dan CSS
2. Web dinamis dan interaktif dengan Document Object Model (DOM)
3. Mengubah data beserta manipulasinya menggunakan XML dan XSLT
4. Mengambil data secara Asynchronous dengan XMLHttpRequest
5. JavaScript yang memadukan semua teknologi

# Web : tradisional VS AJAX

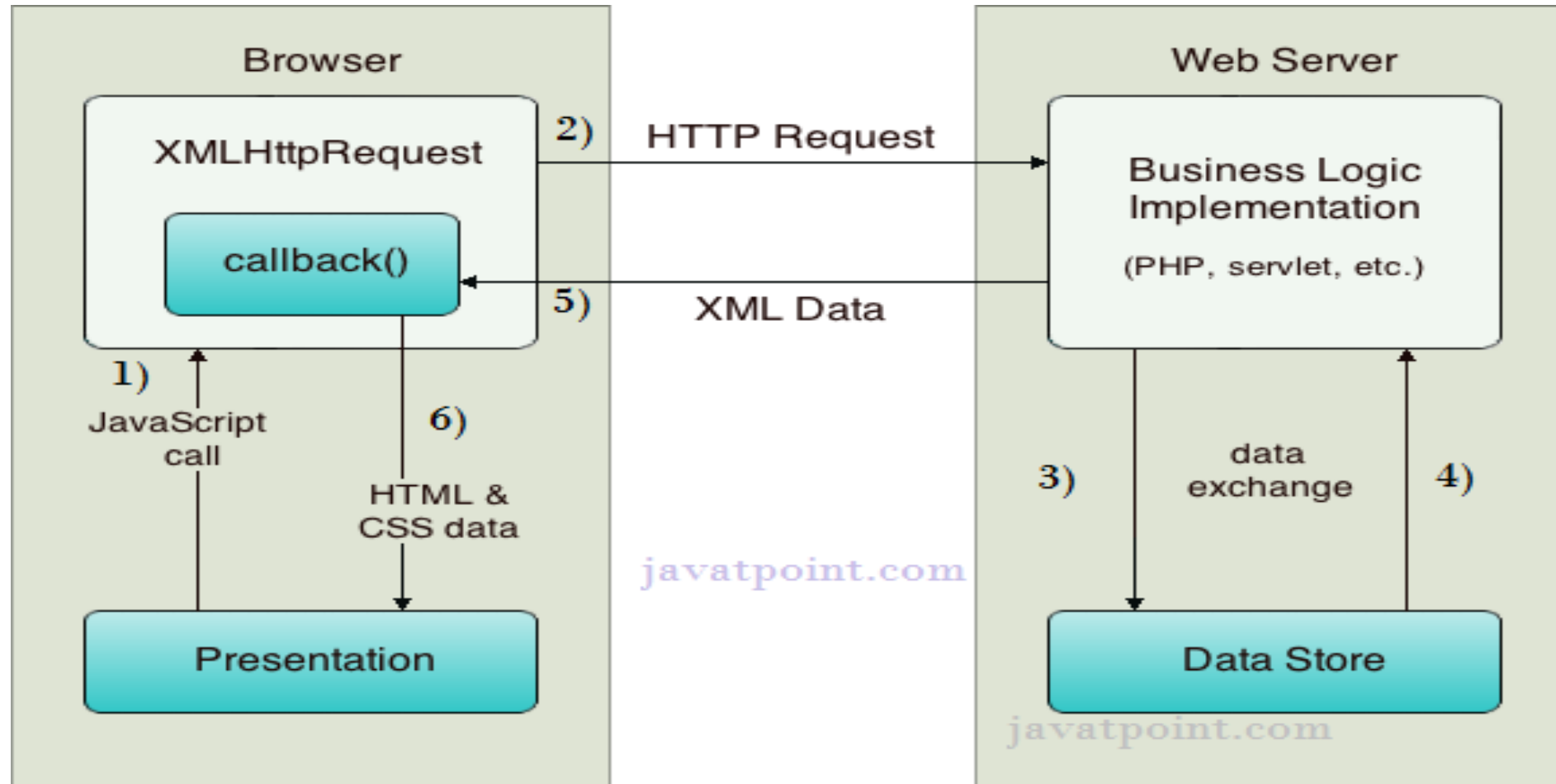
## Traditional web model



## AJAX web model



# AJAX - Server Side Application



# Contoh Implementasi Ajax

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- Web Searching

[https://www.w3schools.com/xml/tryit.asp?filename=tryajax\\_suggest\\_php](https://www.w3schools.com/xml/tryit.asp?filename=tryajax_suggest_php)

- Filtering Data Dropdown Menu:

[https://www.w3schools.com/php/php\\_ajax\\_database.asp](https://www.w3schools.com/php/php_ajax_database.asp)

<http://phpspot.com/demo/jquery-dependent-dropdown-list-countries-and-states/>

- Display image

<https://www.xul.fr/ajax/ajax-image-gallery.php>