

HTML Basic

HTML Basic

<html>

</html>

HTML Basic

<html>

<head></head>

</html>

HTML Basic

```
<html>
```

```
  <head></head>
```

```
  <body></body>
```

```
</html>
```

HTML Basic - head

`<head>`

`</head>`

HTML Basic - head

<head>

<meta charset="UTF-8">

</head>

HTML Basic - head

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <script src="test.js" />
```

```
</head>
```

HTML Basic - head

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <script src="test.js" />
```

```
  <link rel="stylesheet" href="test.css" />
```

```
</head>
```


HTML Basic - body

<body>

</body>

HTML Basic - body

<body>

HTML DOM elements

</body>

DOM elements?

DOM elements?

Simply....

: object elements with attributes that are presented in a HTML page

DOM elements?

Simply....

: object elements with attributes that are presented in a HTML page

e.g.

<div>, <table>, <h1>, , <input>, etc....

HTML Basic - body

```
<body>
```

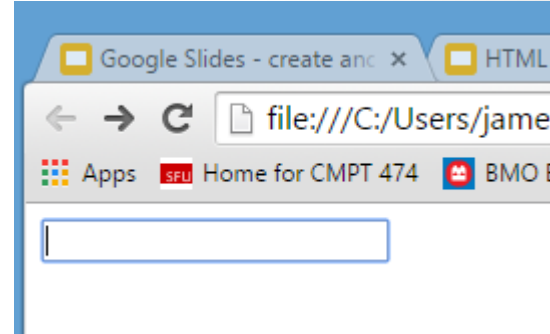
```
<input type="text" />
```

```
</body>
```

HTML Basic - body

`<body>`

`<input type="text" />`



`</body>`

HTML Basic - body

<body>

여보게 구글로 갑세

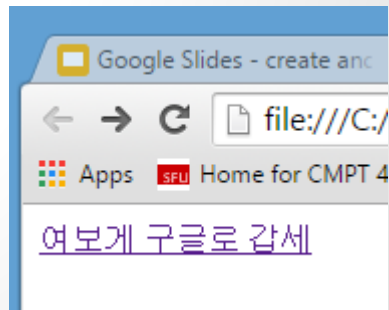
</body>

HTML Basic - body

<body>

여보게 구글로 갑세

</body>

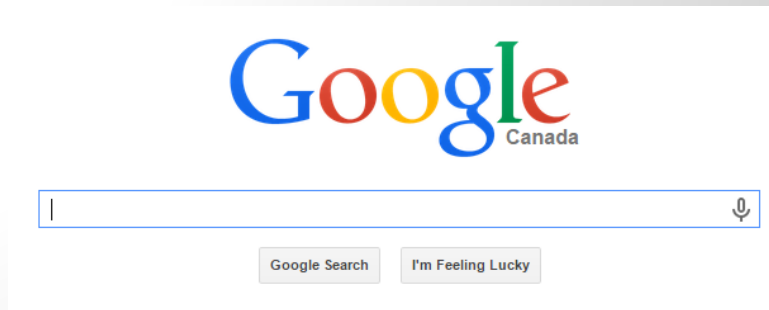


HTML Basic - body

<body>

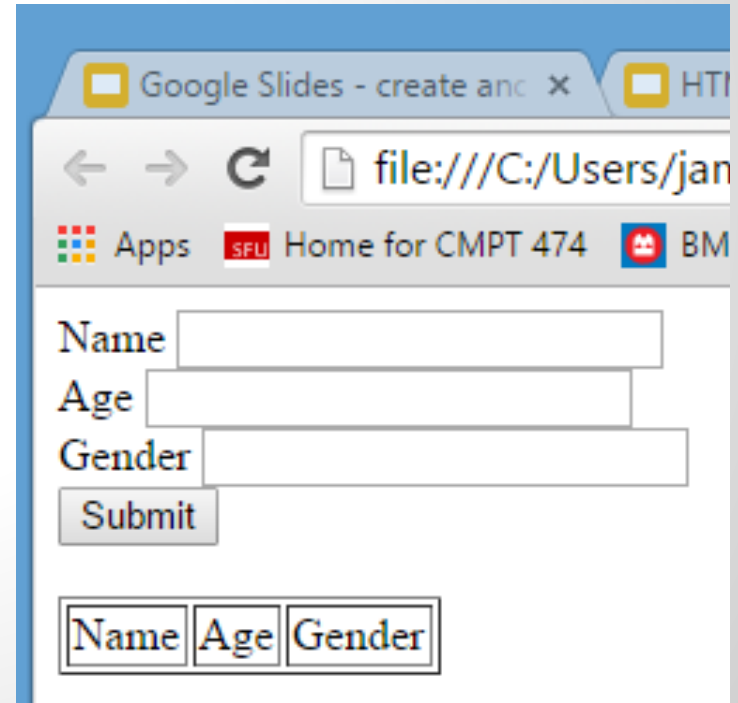
여보게 구글로 갑세

</body>



Quick exercise #1

<http://mjk-heejun.github.io/Web-Tech-Tutorial/qex1/>

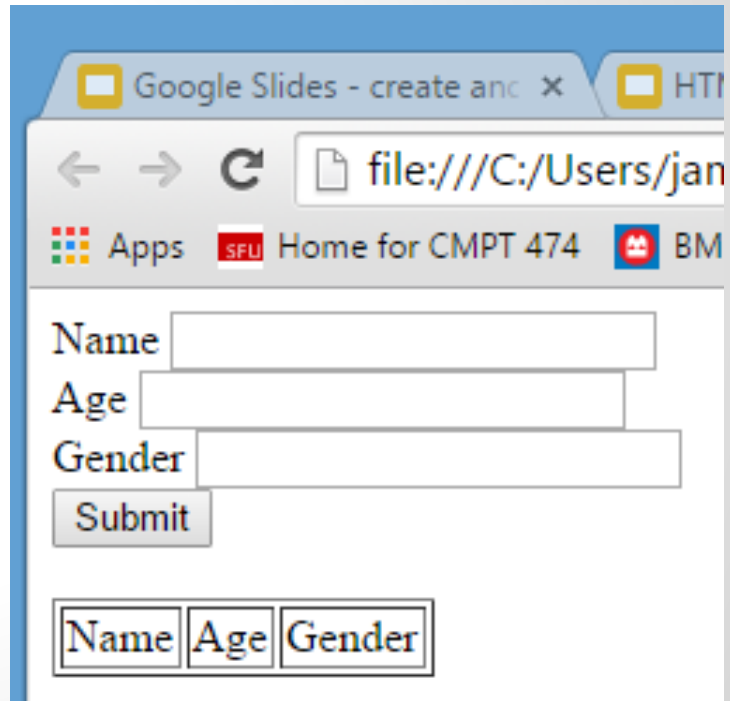


The screenshot shows a web browser window with two tabs: "Google Slides - create and ..." and "HTI...". The address bar displays "file:///C:/Users/jan...". Below the address bar, there are icons for "Apps", "SFLU Home for CMPT 474", and "BM". The main content area contains a form with three input fields labeled "Name", "Age", and "Gender", followed by a "Submit" button. At the bottom of the form, there is a table with three columns: "Name", "Age", and "Gender".

Name	Age	Gender
------	-----	--------

Quick exercise #1

`<table border='1'>`

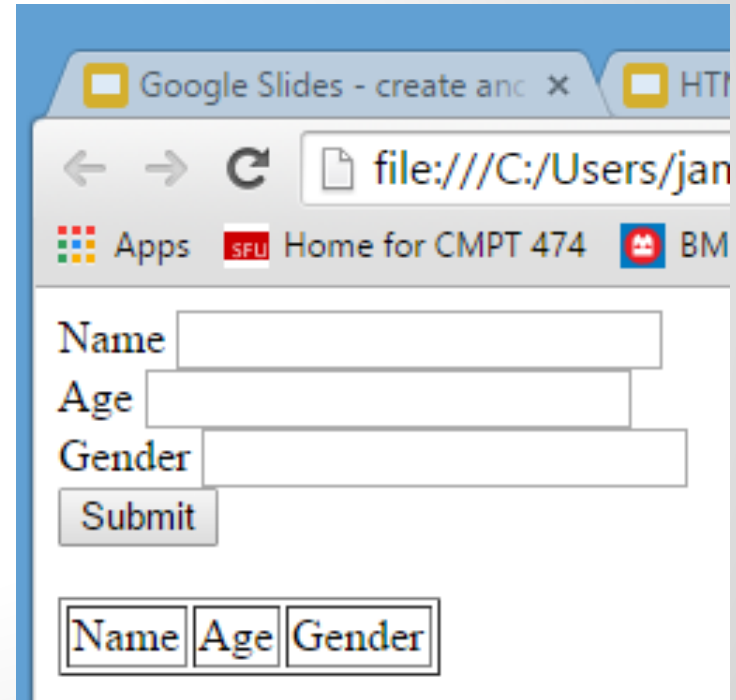


The screenshot shows a web browser window with the address bar displaying `file:///C:/Users/jan`. The browser's toolbar includes navigation buttons and a search bar. Below the toolbar, there are several icons and text labels: "Apps", "SFLU", "Home for CMPT 474", and "BM". The main content area of the browser displays a form with three input fields labeled "Name", "Age", and "Gender". Below these fields is a "Submit" button. At the bottom of the form, there is a table with three columns labeled "Name", "Age", and "Gender".

Name	Age	Gender
------	-----	--------

Quick exercise #1

```
<table border='1'>
  <tr>
    <td>Name</td>
    <td>Age</td>
    <td>Gender</td>
  </tr>
</table>
```



A screenshot of a web browser window. The address bar shows a local file path: `file:///C:/Users/jan`. The browser has several tabs open, including "Google Slides - create and" and "HT". The page content includes a form with three input fields labeled "Name", "Age", and "Gender", followed by a "Submit" button. Below the form is a table with three columns labeled "Name", "Age", and "Gender".

Javascript basic

Javascript basic

```
<head>
```

```
  <script src="myScript.js" />
```

```
</head>
```

Javascript basic

```
<head>
```

```
  <script>
```

```
    alert( "Hello World" );
```

```
  </script>
```

```
</head>
```


Javascript basic

```
<div id="myElement">  
    some text inside  
</div>
```

Javascript basic

```
<div id="myElement">
```

some text inside

```
</div>
```

```
<script>
```

```
    element = document.getElementById("myElement");
```

```
</script>
```

Javascript basic

```
<div id="myElement">
```

some text inside

```
</div>
```

```
<script>
```

```
    element = document.getElementById("myElement");
```

```
    alert( element.innerText );
```

```
</script>
```

Javascript basic

```
<div id="myElement">
```

some text inside

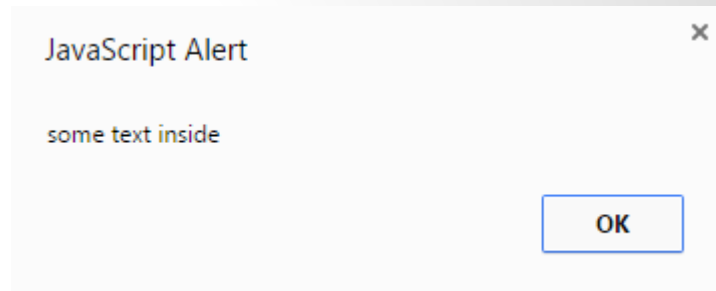
```
</div>
```

```
<script>
```

```
    element = document.getElementById("myElement");
```

```
    alert( element.innerText );
```

```
</script>
```



Jquery basic

Jquery basic

The most popular Javascript library in use today

Easier syntax !

Jquery basic

How to use?

- 1) Download the jQuery script and use it locally
- 2) Use CDN instead

Jquery basic

```
<div id="myElement">
```

some text inside

```
</div>
```

```
<script>
```

```
    element = document.getElementById("myElement");
```

```
    alert( element.innerText );
```

```
</script>
```


Jquery basic

```
<div id="myElement">
```

some text inside

```
</div>
```

```
<script>
```

```
    element = $("#myElement");
```

```
    alert( element.text() );
```

```
</script>
```

Jquery Event

List of events

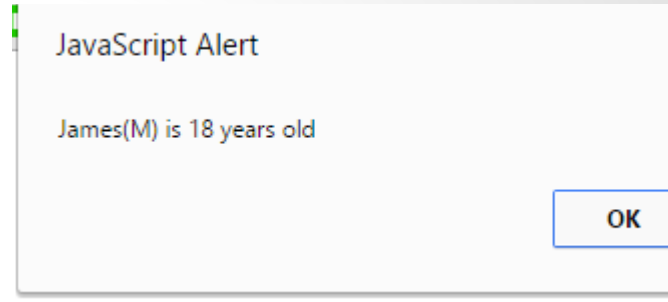
- <https://api.jquery.com/category/events/>

Quick exercise #2

Name

Age

Gender



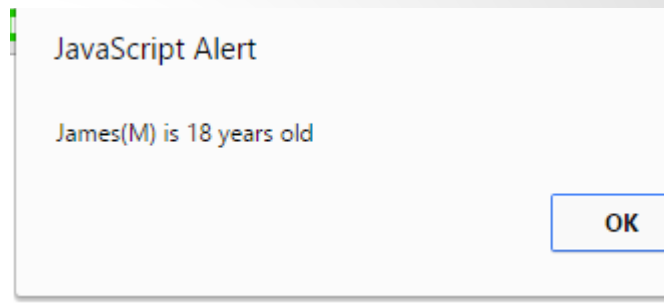
<http://mjk-heejun.github.io/Web-Tech-Tutorial/qex2and3/>

Quick exercise #2

Name

Age

Gender



hint:

```
var name = $("#name").val();
```

Quick exercise #3

Name

Age

Gender

Name	Age	Gender
James	18	M

hint:

use “append”

HTML5

HTML5

Brief History

- HTML4 not updated since 2000

HTML5

Brief History

- HTML4 not updated since 2000

Approach

- goodbye to third party dependency (flash, quicktime, java applet)

HTML5

Brief History

- HTML4 not updated since 2000

Approach

- goodbye to third party dependency (flash, quicktime, java applet)
- mobile features (geolocation, drag and drop)

HTML5 features

HTML5 features

Canvas

<http://29a.ch/sandbox/2010/box2d2/test.html>

<http://hakim.se/experiments/html5/magnetic/02/>

<http://hakim.se/experiments/html5/blob/03/>

HTML5 features

Geolocation

Video, Audio

: <video>, <audio>

Web Local Storage

HTML5 basic

How to use

```
<!doctype>
```

```
<html>
```

IndexedDB

IndexedDB

What is it?

- Local NoSQL database for web app

IndexedDB

How to use: https://developer.mozilla.org/en-US/docs/Web/API/IndexedDB_API/Using_IndexedDB

IndexedDB Demo

<http://mjk-heejun.github.io/Web-Tech-Tutorial/qex4/>

Quick exercise #4

<https://github.com/MJK-heejun/Web-Tech-Tutorial/tree/gh-pages/qex4-not-complete>

implement remove function!

Server side storage != local storage

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MySQL, MsSQL, SQLite, DynamoDB, etc etc

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Cannot be directly be accessed from javascript

(only accessible via AJAX call which will not be discussed)

Server side storage != local storage

MySQL, MsSQL, SQLite, DynamoDB, etc etc

Cannot be directly be accessed from javascript

(only accessible via AJAX call which will not be discussed)

Use **Server-side script languages** instead!

: PHP, Ruby, JSP, Python, ASP.NET, etc

Choosing your language

Choosing your language

Google for it and then decide!!

: PHP, Ruby, JSP, Python, ASP.NET, etc

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Google for it and then decide!!

: PHP, Ruby, JSP, Python, ASP.NET, etc

They all have a **framework** with **MVC** supported

Choosing your language

Google for it and then decide!!

: PHP, Ruby, JSP, Python, ASP.NET, etc

They all have a **framework** with **MVC** supported

- PHP - CakePHP, codeigniter, etc,
- Ruby - Ruby On Rails
- Python - Django

Next Step

Try DB CRUD using server-side script language of your choice.

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Try DB CRUD using server-side script language of your choice.

- by using RDB (e.g. MySQL) and SQL language

Next Step

Try DB CRUD using server-side script language of your choice.

- by using RDB (e.g. MySQL) and SQL language
- by using NoSQL database and Key, Value approach

extra good-to-study stuff

bootstrap.css

- popular css framework
- <http://getbootstrap.com/css/>

extra good-to-study stuff

bootstrap.css

- popular css framework
- <http://getbootstrap.com/css/>

jQuery AJAX call

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

extra good-to-study stuff

AngularJS, Apache Cordova

- only if interested in Mobile Web App dev

