

Web Programming (1) Lesson 02

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HTML Structure



Create a file: lecture2_1.html



<!DOCTYPE html>

```
<html>
                                     Invisible Part
       <head>
       </head>
      <body>
       </body>
</html>
                                         Visible Part
```

</html>



```
<!DOCTYPE html>
<html>
      <head>
            <title>Title of Page</title>
      </head>
      <body>
            <h1>Header 1</h1>
      </body>
```



```
<!DOCTYPE html>
<html>
      <head>
            <title>Title of Page</title>
      </head>
      <body>
            <h1>Header 1</h1>
            This is a Paragraph 
      </body>
</html>
```



```
<!DOCTYPE html>
<html>
      <head>
            <title>Title of Page</title>
      </head>
      <body>
            <h1>Header 1</h1>
             This is a Paragraph 
            This is a <br/>Paragraph 
      </body>
</html>
```

Attributes



- Attributes provide additional information about the contents of an element.
- They appear on the opening tag of the element and are made up of two parts: a **name** and a **value**, separated by an equals sign.

The Background Color Attribute

For colors: https://www.w3schools.com/colors/colors names.asp



<!DOCTYPE html>

```
<html>
       <head>
              <title>This is the Title of the Page</title>
       </head>
       <body bgcolor="AliceBlue">
           <h1>Header 1 </h1>
              This is a Paragraph
               This is a <br/>Paragraph 
       </body>
</html>
```

Edit file: lecture2_1.html

Adding more headers



```
<!DOCTYPE html>
<html lang="en">
          <head>
                    <title>This is the Title of the Page</title>
          </head>
          <body><br/>body bgcolor="AliceBlue"></br>
            <h1>Header 1 </h1>
            <h2>Header 2 </h2>
            <h3>Header 3 </h3>
           <h4>Header 4 </h4>
           <h5>Header 5 </h5>
           <h6>Header 6 </h6>
             This is a Paragraph
            This is a <br/> Paragraph 
          </body>
```

Horizontal rules Edit file: lecture2_1.html

Add <hr/> Tag



<hr /> You can add a horizontal line between sections using the <hr /> tag.

```
<!DOCTYPE html>
<html lang="en">
              <head>
                            <title>This is the Title of the Page</title>
              </head>
              <body><br/>body bgcolor="AliceBlue"></br>
            <h1>Header 1 </h1>
            <h2>Header 2 </h2>
            <h3>Header 3 </h3>
            <h4>Header 4 </h4>
            <h5>Header 5 </h5>
            <h6>Header 6 </h6>
           This is a Paragraph
            This is a <br/> Paragraph 
            <hr/>
            This is another Paragraph 
            </body>
</html>
```



HTML Text



Tags used for Text



- ···· make characters appear bold
- <i><i><i>i>talic tag
- <u>>····</u>underline tag

Save file: lecture2_2.html



```
<!DOCTYPE html>
<html>
        <head>
                <title>This is the Title of the Page</title>
        </head>
        <body bgcolor="AliceBlue">
          <h1>Biography</h1>
           My name in <u> Tom </u>. I am studying <b>web programming</b>
            at the <i>Kyoto College of Graduate Studies for Informatics </i> 
        </body>
</html>
```

More Tags used for Text



^{·····}superscript

Superscript is used for mathematical concepts like raising a number to a power of 2.

 2^3 is 8. The cube of 2 is 8.

2³ is 8. The cube of 2 is 8

_{....}subscript

Subscript is commonly used with foot notes or chemical formulas such as H₂0.

 H_2O

H₂O is the chemical name for Water

Exercise



I am from Nepal

I am from Nepal

I am from Nepal

I am from Nepal

 2^3 is 8. The cube of 2 is 8

H₂O is the chemical name for Water.

Do it by yourself. Save it as lecture2_3.html

First find out which tags are used?

White space



- White space collapsing:
 - When the browser comes across two or more spaces next to each other, it only displays one space. Similarly if it comes across a line break, it treats that as a single space too. This is known as White space collapsing.

Edit: lecture2_2.html

- Reference: JON DUCKETT, HTML&CSS design and build websites, JOHN WILEY & SONS, INC., 2014
- Example: add the following part to lecture 2_2.html.

```
Kyoto is a beautiful city
```

Kyoto is a beautiful city

Kyoto is a beautiful city

Kyoto is a beautiful city

Abbreviation



- <abbr>>----</abbr>
 - If you use an abbreviation or an acronym, then the <abbr>element can be used.
 - Reference: JON DUCKETT, HTML&CSS design and build websites, JOHN WILEY & SONS, INC., 2014
- Example: Add the following part to lecture2_2.html

<abbr title="The Kyoto College of Graduate Studies for Informatics">KCGI</abbr>has four courses.

KCGI has four courses.

The Kyoto College of Graduate Studies for Informatics KCGI has four courses.

Address



- <address>....</address>
 - It has a specific use: to contain contact details for the author of the page.
 - Browsers often display the content of the <address> element in italics.
 - Reference: JON DUCKETT, HTML&CSS design and build websites, JOHN WILEY & SONS, INC., 2014
- Example: Add the following part to lecture2_2.html

<address>

The Kyoto College of Graduate Studies for Informatics
 Hyakumanben Campus
 Kyoto, Japan

</address>

Homework

Add the following part to lecture2_2.html



....

I am from Nepal

- Indicates that its content has strong importance.
- By default, browsers will show the contents of a element in bold.
- Reference: JON DUCKETT, HTML&CSS design and build websites, JOHN WILEY & SONS, INC., 2014
- <s>·····</s>
 - Indicates something that is no longer accurate or relevant (but that should not be deleted).

Laptop computer:

Was \$995

Now is only \$375.

Homework



Add the following part to lecture2_2.html

<blook
quote> quote for entire paragraph

<q> quote

<blook
duote>

For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.

</blockquote >

Try the same with <q> instead of <blockquote>

- <ins> show content that is inserted to documents
- show content that is deleted in document

My favorite color is blue <ins>red</ins>!



HTML Lists



Let's look at the List Example Page



Scrambled Eggs

Eggs are one of my favorite foods. Here is a recipe for deliciously rich scrambled eggs.

Ingredients

- 2 eggs
- 1tbs butter
- 2tbs cream

Unordered Lists

Method

- 1. Melt butter in a frying pan over a medium heat
- 2. Gently mix the eggs and cream in a bowl
- 3. Once butter has melted add cream and eggs
- 4. Using a spatula fold the eggs from the edge of the pan to the center every 20 seconds (as if you are making an omelette)
- 5. When the eggs are still moist remove from the heat (it will continue to cook on the plate until served)

ordered Lists

Ordered lists

Save it as lists.html



- 0|>·····</pl>
 - Ordered list
- <|i>....</|i>
 - Each item in the list
- Example

- Business IT program
- System development program
- Multimedia Content program
- Next-Generation industries program

The list items will be marked with numbers by default:

- Business IT program
- 2. System development program
- 3. Multimedia Content program
- 4. Next-Generation industries program

Unordered lists



- <l
 - unodered list
- <|i>....</|i>
 - Each item in the list
- Example

<u|>

- Business IT program
- System development program
- Multimedia Content program
- Next-Generation industries program

The list items will be marked with bullets (small black circles) by default:

- · Business IT program
- System development program
- Multimedia Content program.
- Next-Generation industries program

add it to lists.html

Add something by yourself.

Output



Recipe for scrambled eggs.

Ingredients

- 2 eggs
- 1tbs butter
- 2tbs cream

Method

- 1. Melt butter in a frying pan over a medium heat
- 2. Gently mix the eggs and cream in a bowl
- 3. Once butter has melted add cream and eggs
- 4. Using a spatula fold the eggs from the edge of the pan to the center every 20 seconds
- 5. When the eggs are still moist remove from the heat (it will continue to cook on the plate)

Exercise:



```
<!DOCTYPE html>
<html>
             <head>
                          <title>Lists</title>
             </head>
             <body>
                          <h1>Scrambled Eggs</h1>
                          Eggs are one of my favorite foods. Here is a recipe for deliciously rich scrambled eggs.
                          <h2>Ingredients</h2>
                          ul>
                                        2 eggs
                                        1tbs butter
                                        2tbs cream
                          <h2>Method</h2>
                          <0|>
                                        Melt butter in a frying pan over a medium heat
                                        Gently mix the eggs and cream in a bowl
                                        Once butter has melted add cream and eggs
                                        Using a spatula fold the eggs from the edge of the pan to the center every 20 seconds 
                                        When the eggs are still moist remove from the heat (it will continue to cook on the
plate)
                          </01>
             </body>
</html>
```

Nested lists



List inside List

System development program

Next-Generation industries program

Multimedia Content program

- Business IT program
 - ERP
 - CRM
 - SCM.
 - Database
- · System development program
- · Multimedia Content program
- Next-Generation industries program.

Definition lists



A description list, with terms and descriptions:

- <dl>....<dl>
 - The description list is created with the <dl> element and usually consists of a series of terms and their definitions.
- dt>....</dt>
 - Used to contain the term being defined.
- <dd>....</dd>
 - Used to contain the definition.
- Reference: JON DUCKETT, HTML&CSS design and build websites, JOHN WILEY & SONS, INC., 2014

Definition lists



```
< dl>
```

<dt>Sashimi</dt>

<dd>Sliced raw fish that is served with condiments such as shredded
daikon radish or ginger root. wasabi and soy sauce.</dd>

<dt>Scamorze</dt>

<dt>Scamorzo</dt>

<dd>An Italian cheese usually made from whole cow's milk.</dd>

</dl>

Add the above part to lists.html, and then try to use definition lists by yourself.

Sashimi

Sliced raw fish that is served with condiments such as shredded daikon radish or ginger root, wasabi and soy sauce.

Scamorze

Scamorzo

An Italian cheese usually made from whole cow's milk.

Lists



- ol> ordered lists (number)
- ul> unordered lists (bullet points)
- <dl> definition lists
- <dt> definition term
- <dd> definition content
- lists

Let's try to include this in your page!



HTML Links



HTML links

Save it as link.html



https://global.kcg.edu/

Link to the website

The text user click on

The Kyoto College of Graduate Studies for Informatics.

Link to Email



a_pariyar@kcg.ac.jp

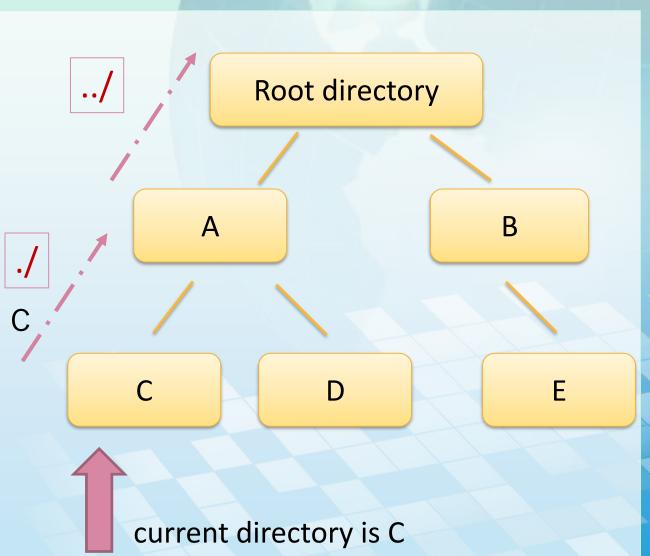
Directory



- Root directory
- Parent directory
- Subdirectory
- Current directory

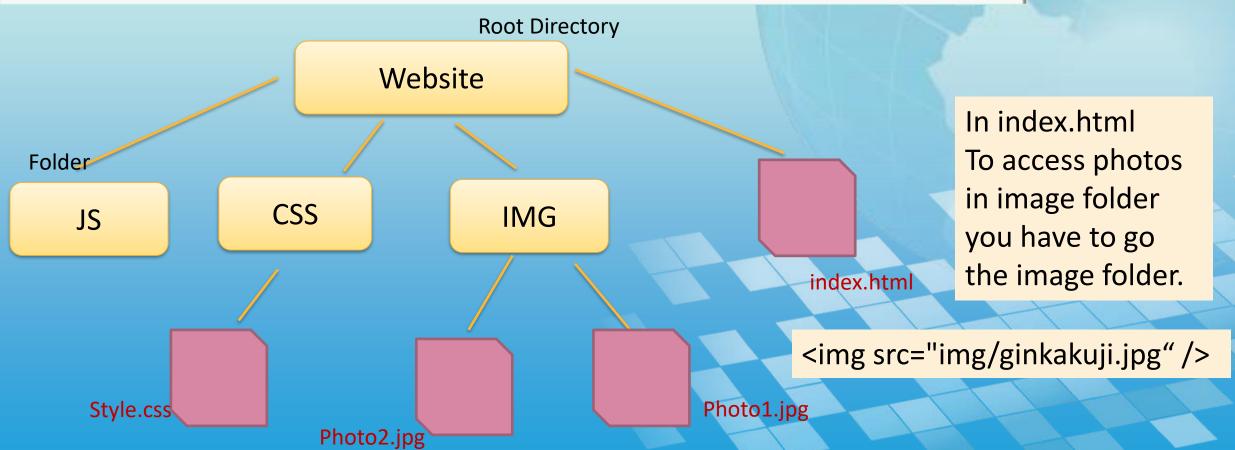
If the current directory is c

- D From C to D Folder
- ./A from C to A Folder
- ../B from C to B Folder
- ../B/E from C to E Folder





▼ i website	5 items	Folder	Tue 10 Jun 2014 1
css	0 items	Folder	Tue 10 Jun 2014 1
img	0 items	Folder	Tue 10 Jun 2014 1
js js	0 items	Folder	Tue 10 Jun 2014 1
— index.html	0 bytes	Text	Tue 10 Jun 2014 1





HTML: Images



Tag: Images



-
- Or you can write this way

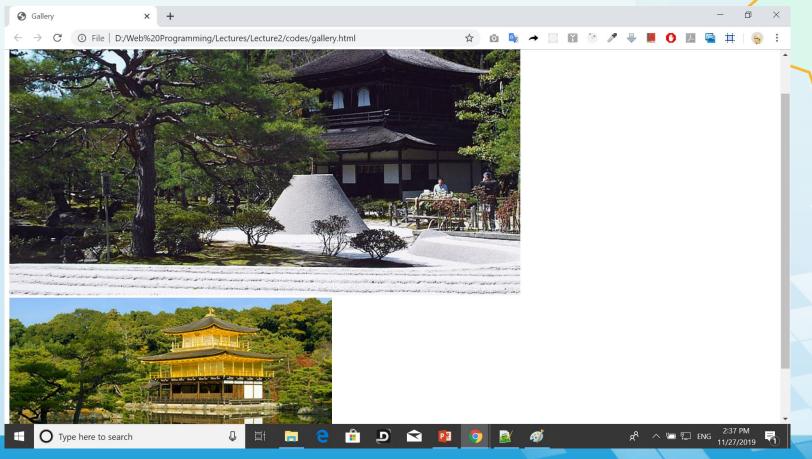
- Add some pictures to your html files.
- Create a new folder "img" under your project folder
- Download jpeg files from the internet and copy to your "img" folder

Tag: Images

Save it as gallery.html

kcg.edu

-
-



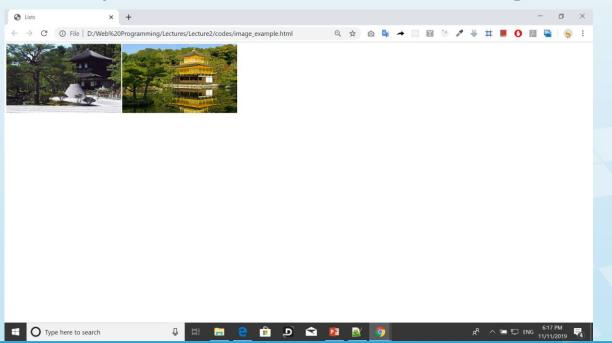
Try it by yourself. You can use your own pictures.

Tag: Images

edit gallery.html



-
-



Alt is "alternative description of the photo"

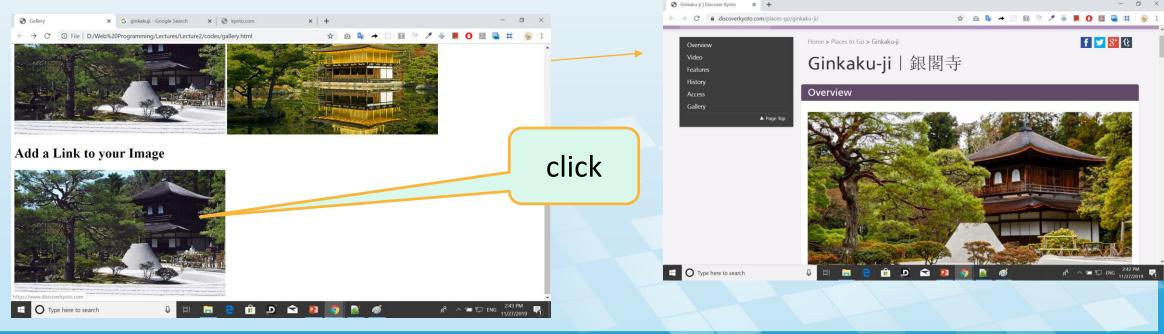
Try it by yourself. You can use your own pictures.

Add a link to image





<img src="img/ginkakuji.jpg" alt="Photo of
Ginkakuji Temple" width="500" height="300" />



Where to place images in your code?





There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic.

Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

Where to place images in your code? Before Paragraph Tag



<img src="photos/ginkakuji.jpg" alt="Photo of Ginkakuji Temple" width="500"
height="300">

>

Ginkaku-ji Temple ("The Silver Pavilion") is on everyone's checklist of sights to see while in Kyoto, both foreigners and Japanese alike. We understand why: it's about as beautiful as any temple in the city. But, if you visit between 10am and 4pm, especially on a weekend or holiday, it is almost impossible to enjoy the place.



edit gallery.html

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

Where to place images in your code? Inside Paragraph Tag



>

<img src="photos/ginkakuji.jpg" alt="Photo of Ginkakuji Temple" width="500"
height="300">

Ginkaku-ji Temple ("The Silver Pavilion") is on everyone's checklist of sights to see while in Kyoto, both foreigners and Japanese alike. We understand why: it's about as beautiful as any temple in the city. But, if you visit between 10am and 4pm, especially on a weekend or holiday, it is almost impossible to enjoy the place.

edit gallery.html

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

Try Putting Image in the middle of Paragraph?



There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic.

Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

Homework



- Create a Project Folder
- Create a Profile Page (index.html) using following HTML tags: <h1><i><address><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref="><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahref=""><ahr
- Add a link to image
- Make a nested lists
- Use Subheadings <h2> <h3> where necessary



Introduction to GitHub



Introduction to GitHub



Open the GitHub website in the browser.

https://github.com/

 Sign up. Use your real name (professional) for username, fill in the info etc.

Create repositories



- Click add button
- Choose add repository
- Choose MIT License
- Write the name for your repository
 - Use WebProgrammingKCGI_Lessons as the name
 - (We are going to set other repository for project)
- Set it in public mode to create your own website.
- Upload you project folder to the repository
- Refer here for the tutorial

https://pages.github.com/
https://www.youtube.com/watch?v=AFdogZFyN0c



Please tell me your github page. Your page url must be something like this (once you have done the registration): <a href="https://github.com/<your username">https://github.com/<your username

Send at following link

https://drive.google.com/open?id=1YvMwMm5tSLo0 VrUcaGGRObuj3v8IEpHjpQb0AGwWMF8