E BUSINESS

5TH :HTML

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1

OBJECTIVES

- To understand the basic structure HTML web page

- To write your own simple pages.

- To serve as the starting point for more advanced training on programming in HTML

REVIEW: BASIS OF HTML WEB PAGE

- We have learnt following page in [Information System Engineering Experiments and Practice Ⅱ]

- Html file consist of **TAGS** as elements
  - <!DOCTYPE html>: Announcement of this file, necessary
  - <html></html>: Start and end of the content
  - <head></head>: Information of this html file, CSS, JavaScript, etc.
  - <title></title>: The title of this html web page
  - <body></body>: The content to be illustrated in browser
  - Use CSS and element to insert space or line break

```html
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <title>Hello World </title>
    </head>
    <body>
        <h1>This is a test page . </h1>
        <p><strong>Hello </strong>, World </p>
        <p>ハローワールド</p>
        <img src="http://baconmockup.com/350/250"
alt="A bacon" >
        <p> Written by ○○.</p>
    </body>
</html>
```

TO RUN HTML AS A WEB PAGE

- Create a new folder in PC
  - Note that your folder will be deleted if PC shuts down

- Open Visual Studio Code
  - Plugins -> search "open in browser" , install
  - <u>Running html file</u> in browser by [<u>Alt + b</u>] is available
  - [file] -> [Open folder as workspace] -> select the folder that you have created
  - Create a new file with name [helloWorld.**html**]
  - Add content of previous page from copy and paste
  - Note quotations, indentations
  - Alt + b to check it!

- Every time, create and run your html file in this way

MAKE A HOMEPAGE TO INTRODUCE YOUR SELF (… IN ENGLISH)

- Create a new file with name [selfIntro.html]
  - Add content below

```html
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
    </head>
    <body>

    </body>
</html>
```

TITLE, CAPTION, AND TIME

- Add title into your page
  - In head element, add:

```
<title>Self Introduction</title>
```

- Add caption
  - `<h1>` element (h one, not h L)

```
<h1>About myself...</h1>
```

- Add time
  - Use `<time>` element to insert time or date `<time>2023-9-13</time>`
  - Use "datetime" attribute to indicate the time and/or date of the element
    - The value will be machine-readable value of datetime, which can be calculated
    - Must be written in format, such as [yyyy-mm-dd hh:mm:ss.ms]

```
<time datetime="2023-09-13 12:00:00">2023-9-13</time>
```
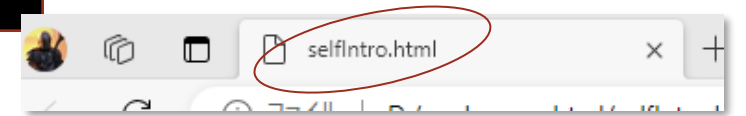
> Replace these two times with current time

selfIntro.html

PARAGRAPH, LINE BREAK

- Paragraphs
  - Use <p> element to make paragraph
  - Add your self introduction by <p> and </p>
  - Use <br> to make new lines

```
<p>Hi! My name is Kanshin.
   I work in NIT Tsuyama, Japan. <br>
   I teach E business, which is a lecture for 5 grade students.
</p>
```

- <Alt + b> to check your page!

CITATIONS

- Case you need to use citations:
  - Name of book, movie, etc.
  - Name of person, company, cooperation, etc.
  - Phrase from somebody or somewhere, etc.

- \<cite\> and \</cite\> for names, titles

- \<q\> and \</q\> for Phrase

- Add your favorite movie or Manga and its phrase into self introduction

Other examples:
- One piece: I'm going to become the king of the pirates!
- Jujutsu Kaisen: Don't worry! I'm crazy strong.
…

```html
<p>
    My favorite movie is <cite>Star Wars</cite> series. <br>
    <q>May the Force be with you!</q>
</p>
```

REPRESENTATION OF CHARACTERS: EMPHASIS

- To emphasize characters, you can use:
  - Boldface:
    - and , and
  - Boldface+oblique:
  - Marking: <mark> and </mark>

- Try these in your html of self introduction.

```
<p>Hi! My name is Kanshin.
    I work in <b>NIT Tsuyama, Japan</b>. <br>
    I teach <mark>E business</mark>, which is a lecture for 5 grade students.
</p>
<p>

    My favorite movie is <cite>Star Wars</cite> series. <br>
    <q>May the <strong>Force</strong> be with you!</q>
</p>
```

REPRESENTATION OF CHARACTERS: SMALL CHARACTERS

- Superscript and subscript characters
  - \<sup\> and \</sup\> for superscript
  - \<sub\> and \</sub\> for subscript
  - Example: chemical formula CO_2 and size of area $2m^2$

```
We have to reduce emission of CO<sub>2</sub>.<br>
The room of Hokushin domitory is 4m<sup>2</sup>.
```

We have to reduce emission of CO_2.
The room of Hokushin domitory is $4m^2$.

- Ruby characters
  - \<ruby\> for the characters and \<rt\> for Kana

```
My favorite place is <ruby>西条<rt>さいじょう</rt></ruby>
in <ruby>広島<rt>ひろしま</rt></ruby>.
```

My favorite place is 西 条 in 広 島.

- Small characters: \<small\> and \</small\>

```
<small>Copyright &copy; 1985-2023 NIT Tsuyama. All Rights Reserved.</small>
```

Try these elements to add your favorite place and copyright!

IMAGES

- Search an image for your favorite character
  - For example: Darth Vader of Star Wars
  - Save it into the folder of html files

- Add an image: <img> element

```
<img src="DarthVader.png" width="380" height="650"
alt="I am your father.">
```

  - Src attribute: the URL path of the image file, **necessary**.
  - Width and height attribute: size of image in **pixel**.
  - Alt attribute: interpretation if the image cannot be shown normally.

- Try to insert the image that you have found into your page!

LINKS

- Transition to other pages: <a>

```
<a href="https://starwars.disney.co.jp/databank/character/darth-vader">
I am your father.</a>
```

  - Href attribute: URL of link
  - Write the description of link between <a> and
  - Write <img> element between <a> and

  to make image to be a link

- Something about URL
  - Absolute path: URL of Internet
  - Relative path: other pages in folder
    - For example(Assume there is a page of darth-vader.html): To know more about Dart-Vader
    - Write the path from the current page to object page

selfIntro.html

char

Darth-vader.html

12
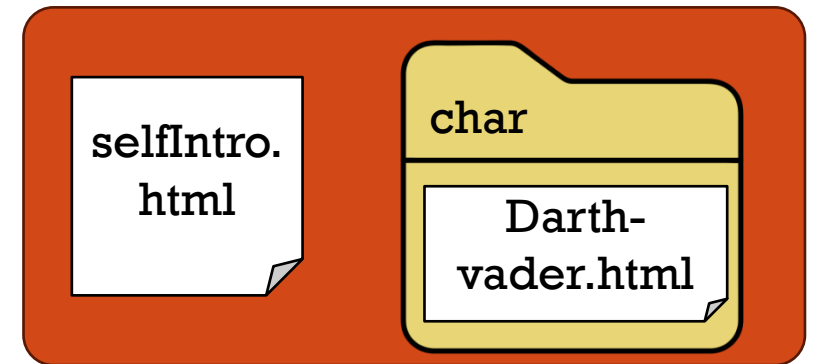
LIST

- Itemization with no sequence: <ul> and
  - for begin and for end of all items
  - and for each item
  - Marks can be change by css

- Itemization with numbers:
  - Use start attribute to adjust the numbers
    - For example: <ol start="3">

```html
<p>These are my hobbies:
    <ul>
        <li>Watching soccer games</li>
        <li>Watching movies</li>
    </ul>
</p>
```

```html
<p>Best movies for me:
    <ol>
        <li>Star Wars I~III, Rouge one</li>
        <li>Lord of the rings</li>
        <li>Forrest Gump</li>
    </ol>
</p>
```

EXTERNAL CONTENTS: FILES

- Add files into html: <object>

```
<object data="map.pdf" width="150" height="200"></object>
```

- Data attribute: the address/path of the file or contents
- Type attribute: MIME type of the file. Check here.
- Width, height: Size of the file or contents.

- Practice: add map of NIT Tsuyama
  - Create a word file in html workspace folder
  - Open homepage of NIT Tsuyama, open access page
  - Copy the map and paste into word file
  - Save the word file and re-save it as PDF
  - Use <object> to add it into html page, and adjust the size if you like.

14

EXTERNAL CONTENTS: VIDEOS

- Add and play videos: <video> element
  - Video saved in local

```
<video src="empire.mp4" controls="controls" width="300" heights="200"></video>
```

  - Src attribute: the path of video file
  - Controls attribute: to show the buttons like [play] or [stop] etc.
  - Height, width: Size of the video window

- Add Youtube videos
  - Use <iframe> element
  - Embed another html page into current page.
  - Find a video and click [share] to get the URL and embed it.

```
<iframe width="560" height="315"
src="https://www.youtube.com/embed/dydhnAi0A
3E?si=IA6Iv6d_RwYt5Eeh" title="YouTube video
player" frameborder="0"
allow="accelerometer; autoplay; clipboard-
write; encrypted-media; gyroscope; picture-
in-picture; web-share"
allowfullscreen></iframe>
```

EXTERNAL CONTENTS: GOOGLE MAP

- Use <iframe> to embed map from google
  - Open Google and find some place
  - Click [share], copy the html code
  - Paste it into your html file
  - Confirm it and adjust it with other text
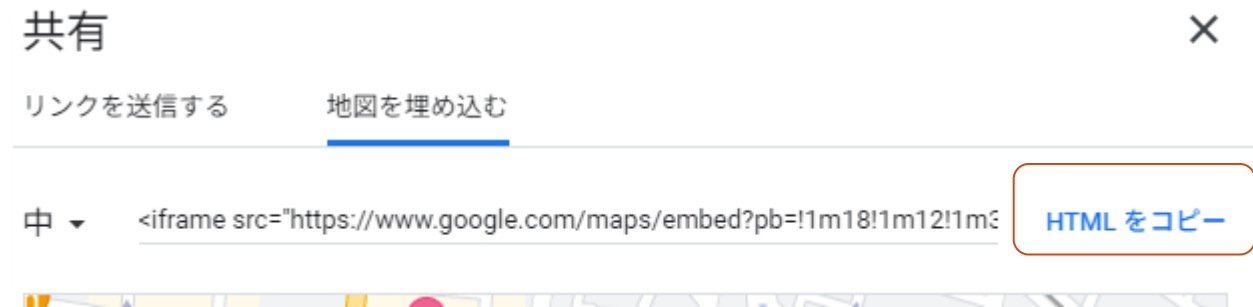
REPORT 4TH /HOMEWORK

- Do the works below in group:
  - Make a **homepage to introduce your team**, which should include:
    - Name of team, image of team, your team's agenda…
    - Members as a list. Each member's name should be a link to his/her self introduction page.

- For Everyone:
  - Make a web page with title [My life in NIT, Tsuyama]
    - Write 200 words article and add it into the page.
    - Add an image into the page.
    - Use at least 8 types elements which are introduced in this lecture.
  - Add a link from your self introduction page to [My life in NIT, Tsuyama] page.
- **Submit all files as a zip file by group leader**.

REFERENCES

- スタジオイー・スペース, HTML5+CSS標準テキスト, 技術評論社(2016)

- HTML: HyperText Markup Language: https://developer.mozilla.org/en-US/docs/Web/HTML

- Star Wars: https://en.wikipedia.org/wiki/Star_Wars

- Jedi Orchestra plays Star Wars The Throne Room. Conducted by Jedi Master Andrzej Kucybała: https://www.youtube.com/watch?v=dydhnAi0A3E