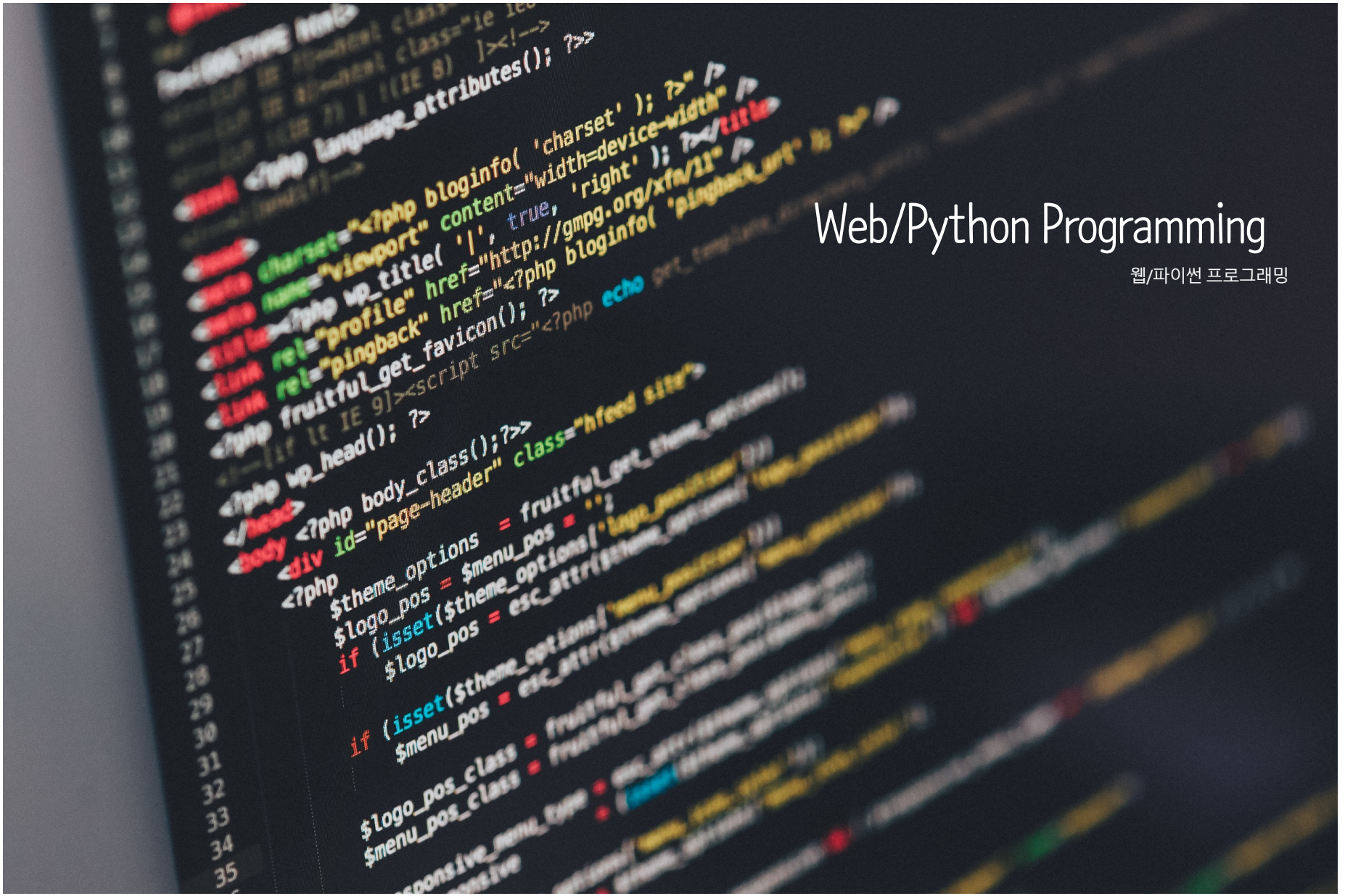


Web/Python Programming

웹/파이썬 프로그래밍

Today

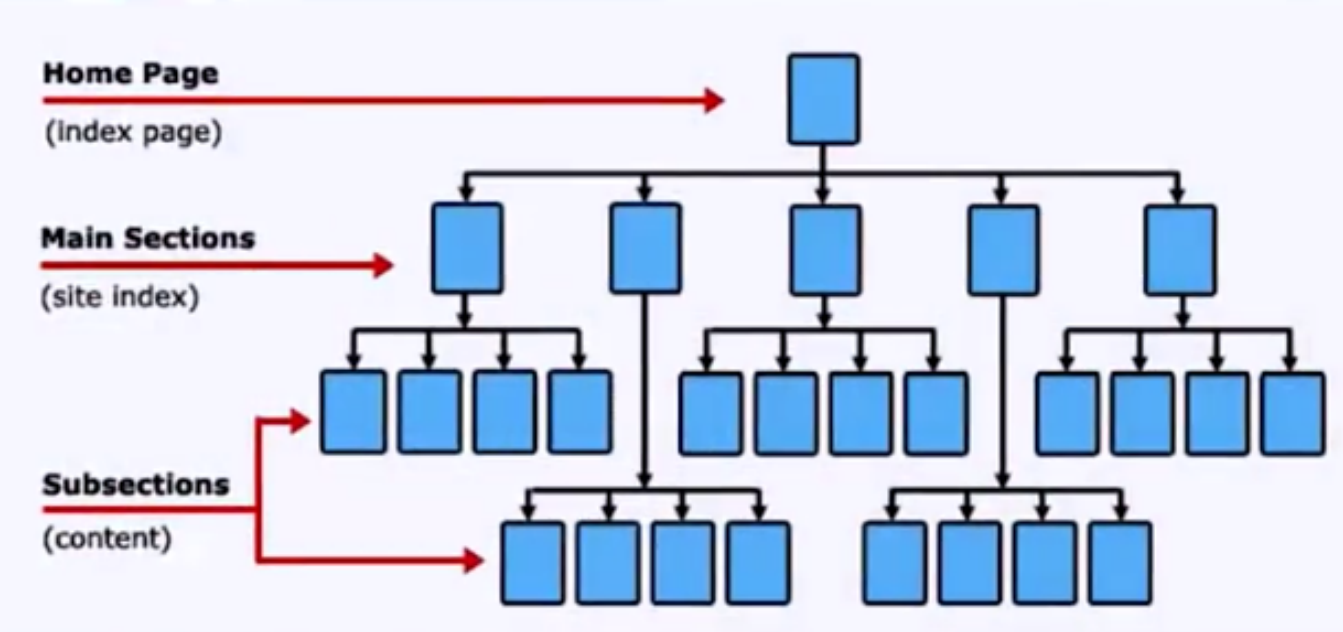
- Identify components of a website
- Describe files commonly used in websites
  - HTML, CSS, Javascript, and images
- Identify HTML tags and some coding
- Discuss applying style to HTML
  - Set up templates
  - Create links
  - Format text

Components of a website

- HTML files and images

- Viewed through a web browser
  - Safari (Apple)
  - Chrome (Google)
  - Internet Explorer (Microsoft)
  - Firefox (Mozilla Foundation)

Structure of a website



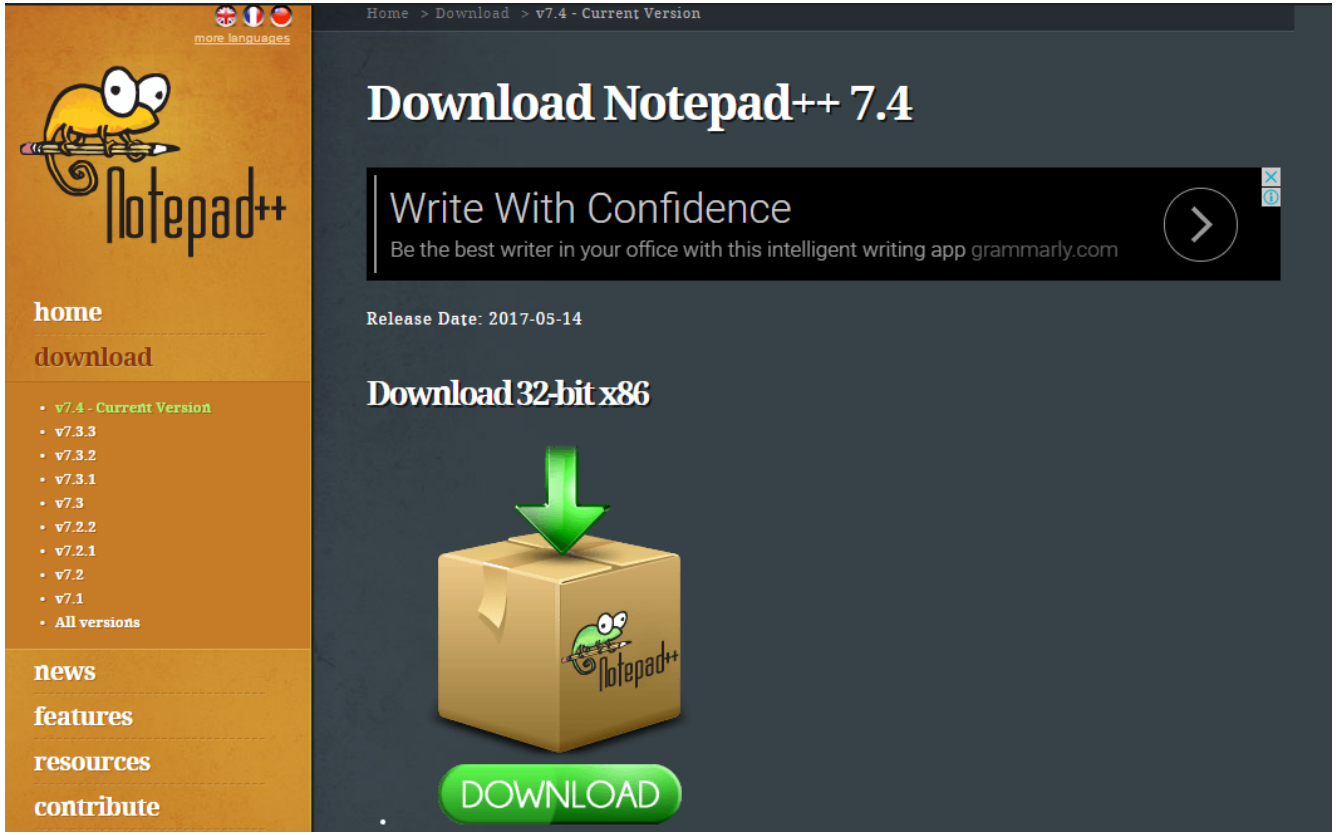
Files

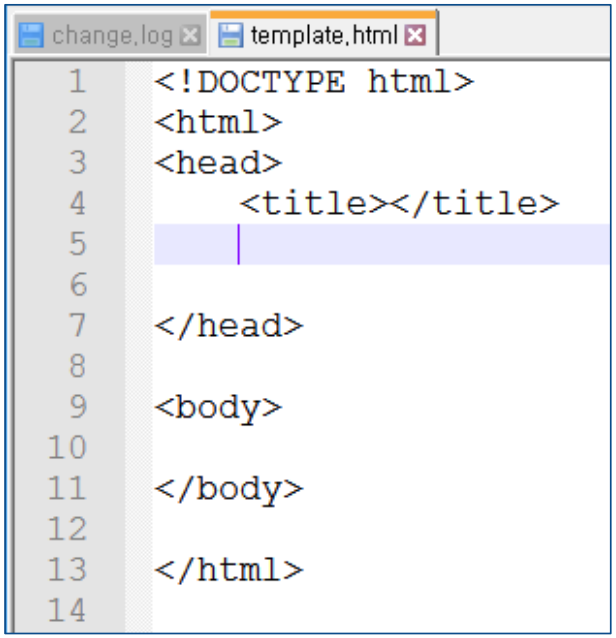
- Files viewed through a web browser

- HTML = Hypertext Markup Language
- CSS = Cascading Style Sheets
- JS = JavaScript
- Images

HTML editor

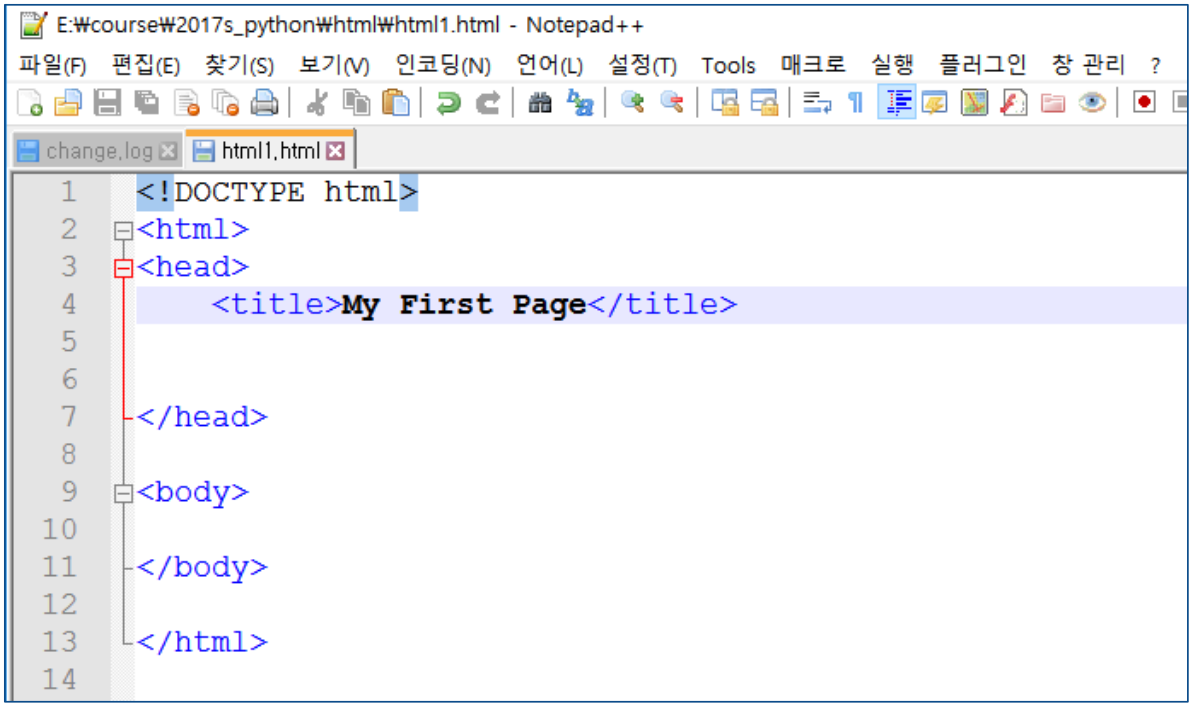
- Notepad++





My First Page

- 언어->H -> HTML 선택
- template.html을 다른 이름으로 저장 (ex. html1.html)



Heading tags

html1.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My First Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>This is a Heading</H1>
12
13 </body>
14
15 </html>
16
```

Heading tags

html1.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My First Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>This is a Heading</H1>
12
13 <H3>This is a smaller heading</H3>
14
15 </body>
16
17 </html>
18
```

Paragraph tags

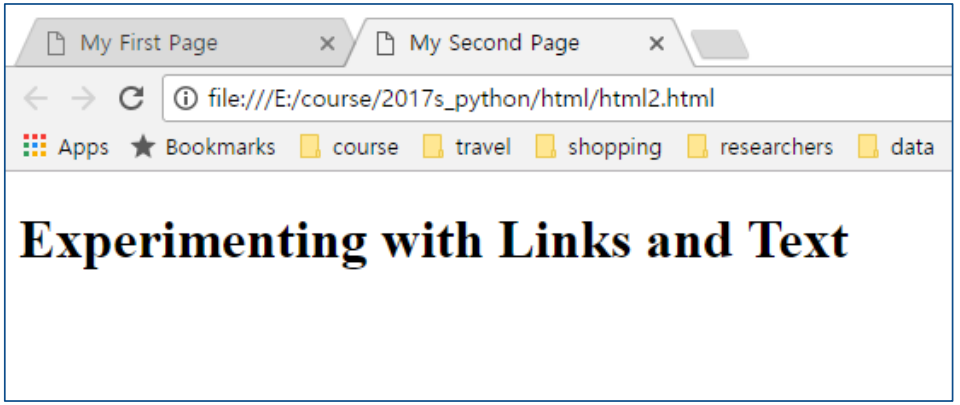
html1.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My First Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>This is a Heading</H1>
12
13 <H3>This is a smaller heading</H3>
14
15 <p>This is my first test paragraph.</p>
16
17 </body>
18
19 </html>
20
```

My Second Page

html1.html | html2.html

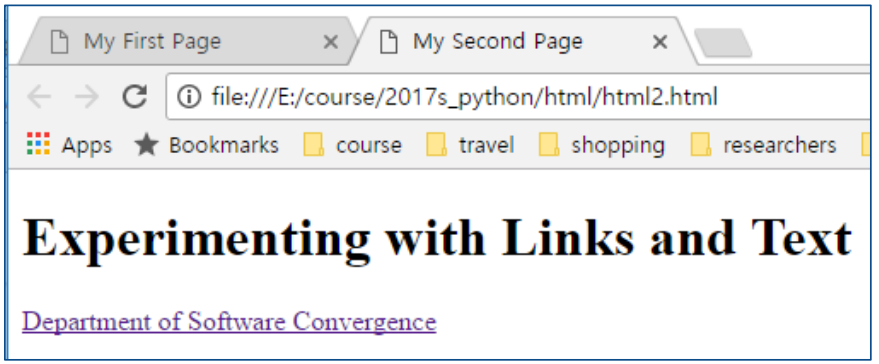
```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My Second Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>Experimenting with Links and Text</H1>
12
13 </body>
14
15 </html>
16
```



My Second Page

html1.html | html2.html

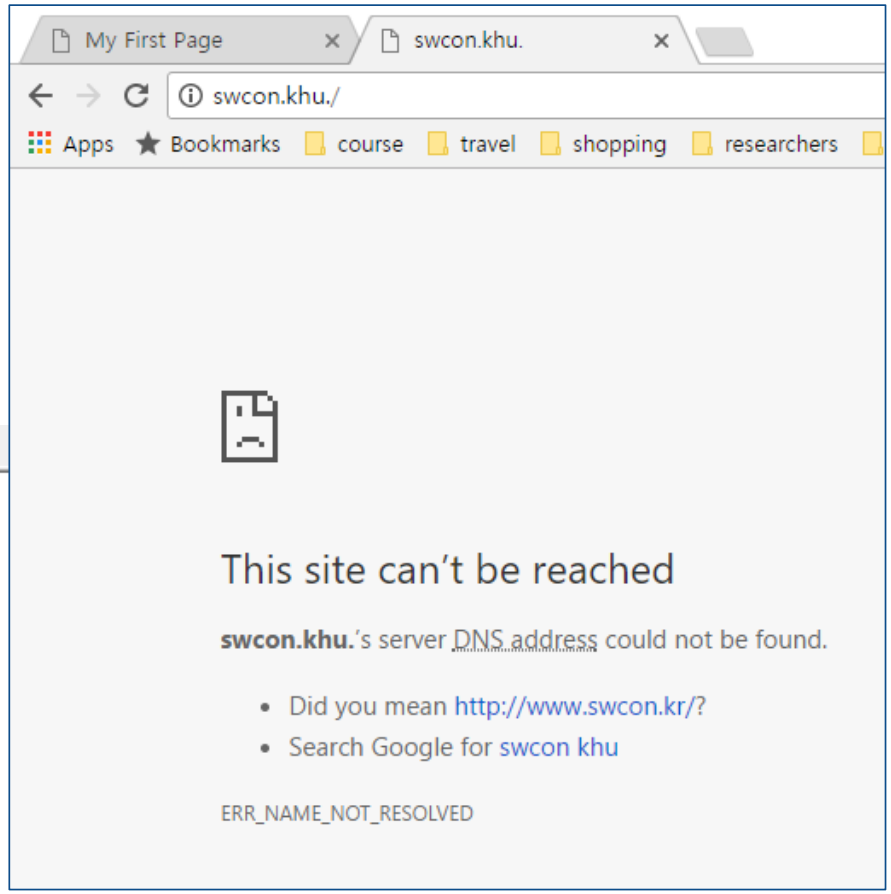
```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My Second Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>Experimenting with Links and Text</H1>
12
13 <a href="http://swcon.khu.ac.kr">Department of Software Convergence</a>
14
15 </body>
16
17 </html>
18
```



My Second Page

html1.html | html2.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My Second Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>Experimenting with Links and Text</H1>
12
13 <a href="http://swcon.khu.">Department of Software Convergence</a>
14
15 </body>
16
17 </html>
18
```



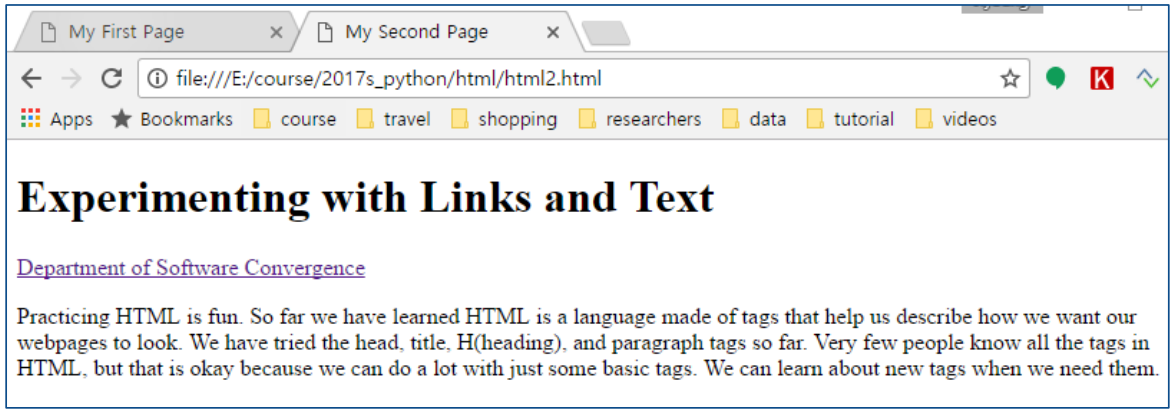
My Second Page

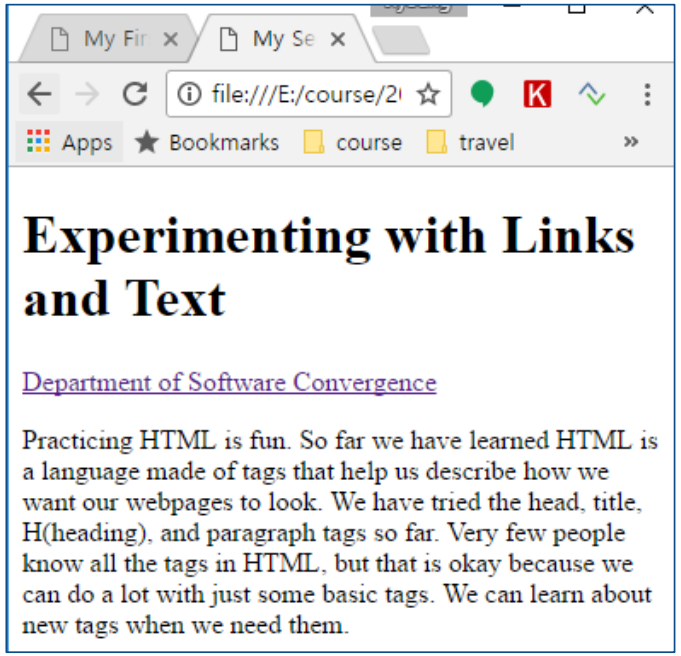
Practicing HTML is fun. So far we have learned HTML is a language made of tags that help us describe how we want our webpages to look. We have tried the head, title, H(heading), and paragraph tags so far. Very few people know all the tags in HTML, but that is okay because we can do a lot with just some basic tags. We can learn about new tags when we need them.

html1.html html2.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My Second Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>Experimenting with Links and Text</H1>
12
13 <a href="http://swcon.khu.ac.kr">Department of Software Convergence</a>
14
15 <p>Practicing HTML is fun. So far we have learned HTML is a language mac
16
17 </body>
18
19 </html>
```

My Second Page





Whitespace ignored

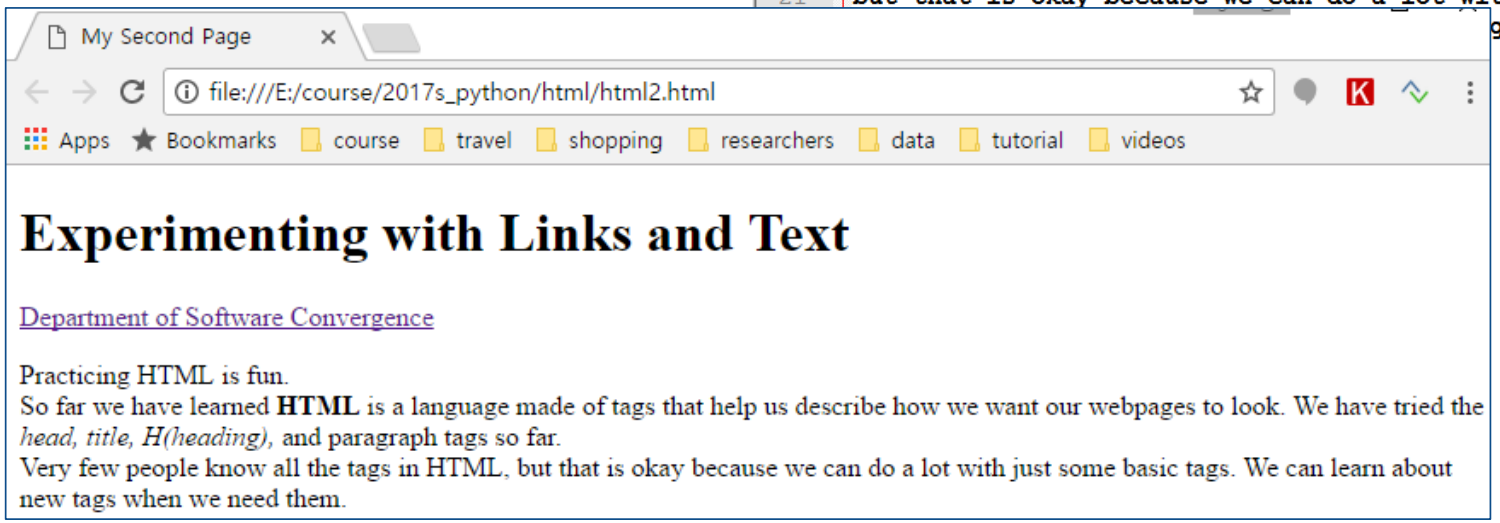
html1.html | html2.html

```
1   <!DOCTYPE html>
2   <html>
3   <head>
4       <title>My Second Page</title>
5
6
7   </head>
8
9   <body>
10
11  <H1>Experimenting with Links and Text</H1>
12
13  <a href="http://swcon.khu.ac.kr">Department of Software Convergence</a>
14
15  <p>Practicing HTML is fun. So far we have learned HTML is a language made
16   of tags that help us describe how we want our webpages to look.
17   We have tried the head, title, H(heading), and paragraph tags so far.
18
19
20   Very few people know all the tags in HTML, but that is okay because we
21   can do a lot with just some basic tags. We can learn about new tags when
22   we need them.</p>
23
24  </body>
```

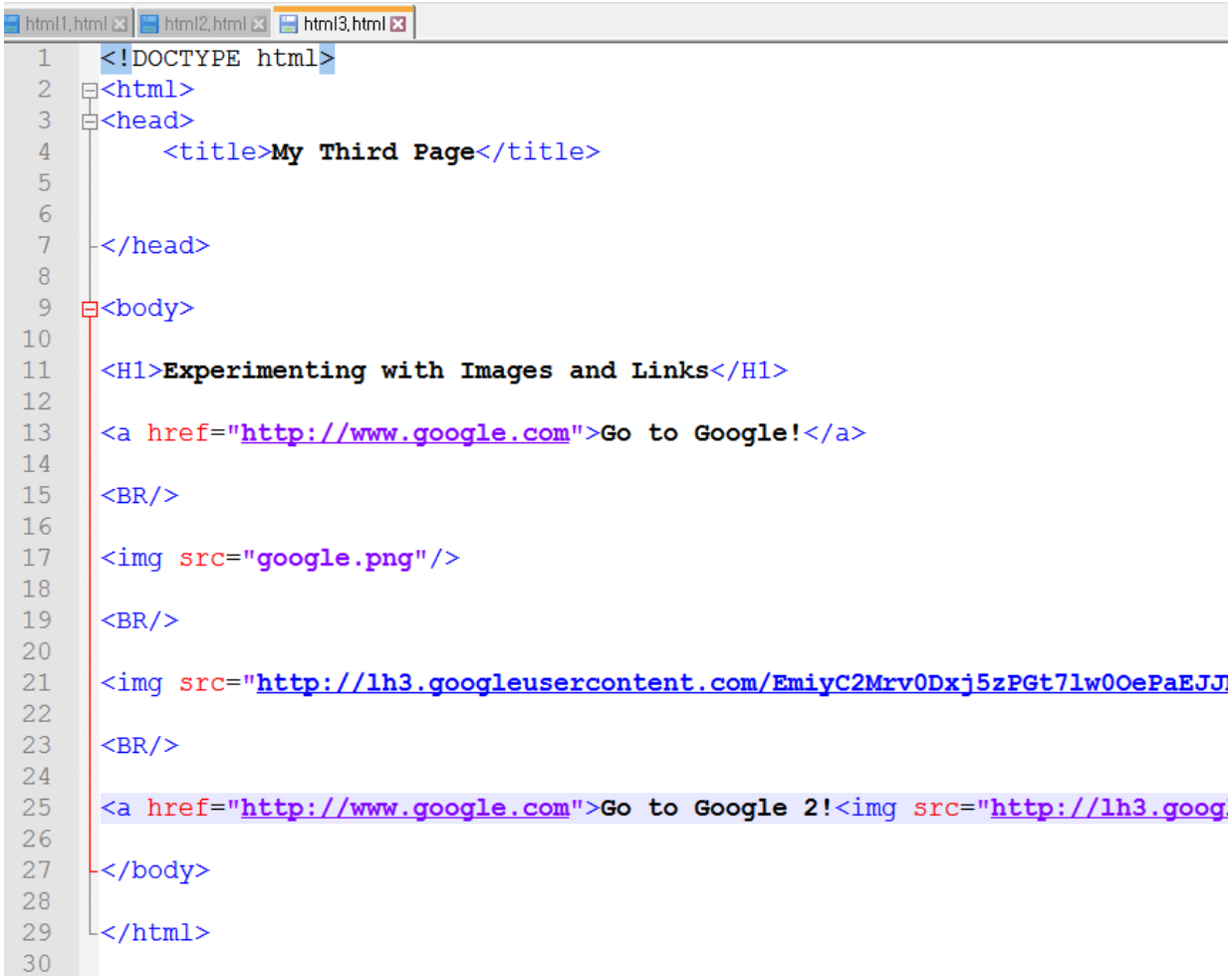
Basic tags

: may not work

```
html1.html  html2.html
 1  <!DOCTYPE html>
 2  <html>
 3  <head>
 4      <title>My Second Page</title>
 5
 6
 7  </head>
 8
 9  <body>
10
11  <H1>Experimenting with Links and Text</H1>
12
13  <a href="http://swcon.khu.ac.kr">Department of Software Convergence</a>
14
15  <p>Practicing HTML is fun. <br>So far we have learned
16  <strong>HTML</strong> is a language made of tags that
17  help us describe how we want our webpages to look.
18  We have tried the <em>head, title, H(heading),</em>
19   and paragraph tags so far. <br>
20  Very few people know all the tags in HTML,
21  but that is okay because we can do a lot with just
                                                    gs when
```



Images and links



Tables 1

html1.html | html2.html | html3.html | html4.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My Fourth Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>HTML Tables and HTML Comments</H1>
12
13 <table>
14 <tr>
15 <td>Day 1</td><td>Walking</td><td>30 minutes</td>
16 </tr>
17 <tr>
18 <td>Day 2</td><td>Swimming</td><td>45 minutes</td>
19 </tr>
20 <tr>
21 <td>Day 3</td><td>Resting</td><td>500 minutes</td>
22 </tr>
23 </table>
24
25 </body>
26
27 </html>
28
```

HTML Tables and HTML Comments

Day 1	Walking	30 minutes
Day 2	Swimming	45 minutes
Day 3	Resting	500 minutes

Tables 2

html1.html | html2.html | html3.html | html4.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My Fourth Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>HTML Tables and HTML Comments</H1>
12
13 <table border="1">
14 <tr>
15 <td>Day 1</td><td>Walking</td><td>30 minutes</td>
16 </tr>
17 <tr>
18 <td>Day 2</td><td>Swimming</td><td>45 minutes</td>
19 </tr>
20 <tr>
21 <td>Day 3</td><td>Resting</td><td>500 minutes</td>
22 </tr>
23 </table>
24
25 </body>
26
27 </html>
28
```

HTML Tables and HTML Comments

Day 1	Walking	30 minutes
Day 2	Swimming	45 minutes
Day 3	Resting	500 minutes

HTML Tables and HTML Comments

Day 1	Walking	30 minutes
Day 2	Swimming	45 minutes
Day 3	Resting	500 minutes

Tables 3

html1.html | html2.html | html3.html | html4.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My Fourth Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>HTML Tables and HTML Comments</H1>
12
13 <table border="1" style="border:solid;">
14 <tr>
15 <td>Day 1</td><td>Walking</td><td>30 minutes</td>
16 </tr>
17 <tr>
18 <td>Day 2</td><td>Swimming</td><td>45 minutes</td>
19 </tr>
20 <tr>
21 <td>Day 3</td><td>Resting</td><td>500 minutes</td>
22 </tr>
23 </table>
24
25 </body>
26
27 </html>
28
```

HTML Tables and HTML Comments

Day 1	Walking	30 minutes
Day 2	Swimming	45 minutes
Day 3	Resting	500 minutes

HTML Tables and HTML Comments

Day 1	Walking	30 minutes
Day 2	Swimming	45 minutes
Day 3	Resting	500 minutes

HTML Tables and HTML Comments

Day 1	Walking	30 minutes
Day 2	Swimming	45 minutes
Day 3	Resting	500 minutes

Comments

html1.html | html2.html | html3.html | html4.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My Fourth Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1>HTML Tables and HTML Comments</H1>
12
13 <!--This is my exercise table -->
14
15 <table border="1" style="border:solid;">
16 <tr>
17 <td>Day 1</td><td>Walking</td><td>30 minutes</td>
18 </tr>
19 <tr>
20 <td>Day 2</td><td>Swimming</td><td>45 minutes</td>
21 </tr>
22 <tr>
23 <td>Day 3</td><td>Resting</td><td>500 minutes</td>
24 </tr>
25 </table>
26
27 </body>
28
29 </html>
30
```

HTML Tables and HTML Comments

Day 1	Walking	30 minutes
Day 2	Swimming	45 minutes
Day 3	Resting	500 minutes

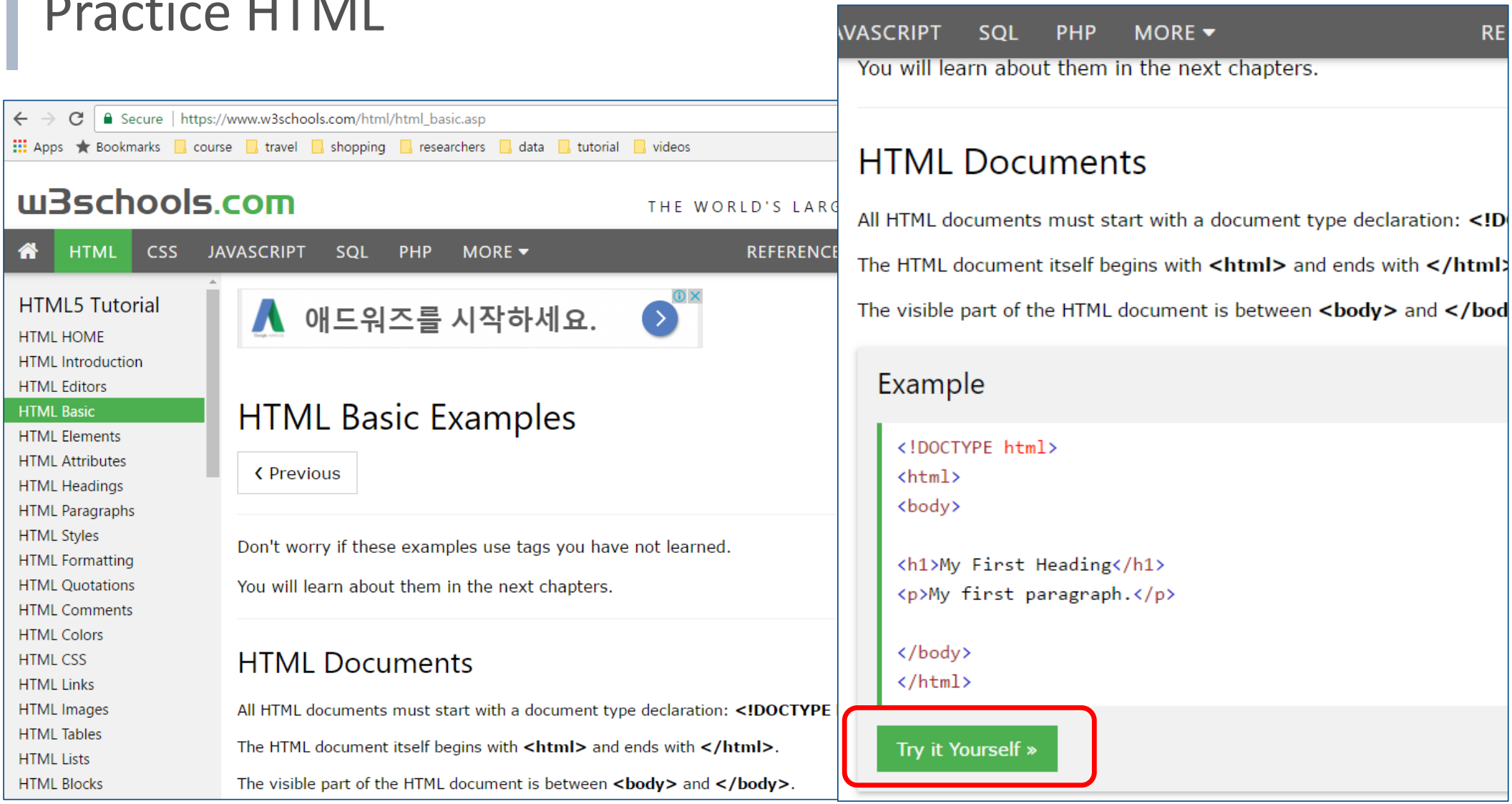
HTML Tables and HTML Comments

Day 1	Walking	30 minutes
Day 2	Swimming	45 minutes
Day 3	Resting	500 minutes

HTML Tables and HTML Comments

Day 1	Walking	30 minutes
Day 2	Swimming	45 minutes
Day 3	Resting	500 minutes

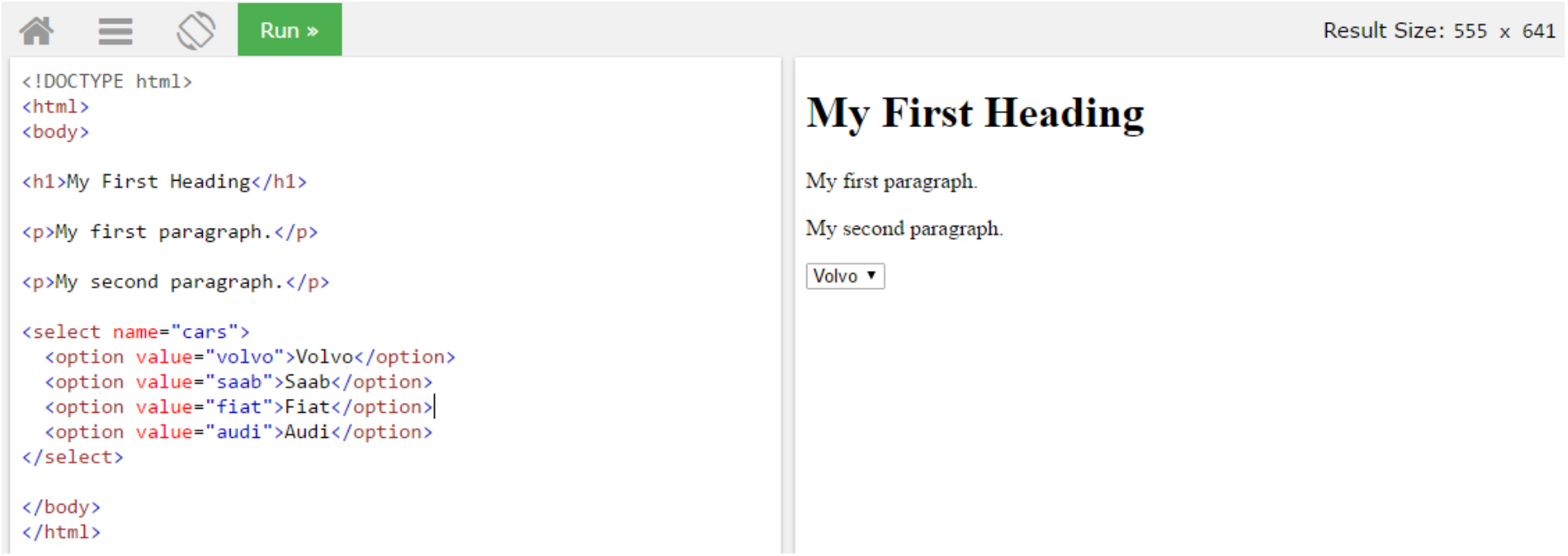
Practice HTML



Practice HTML

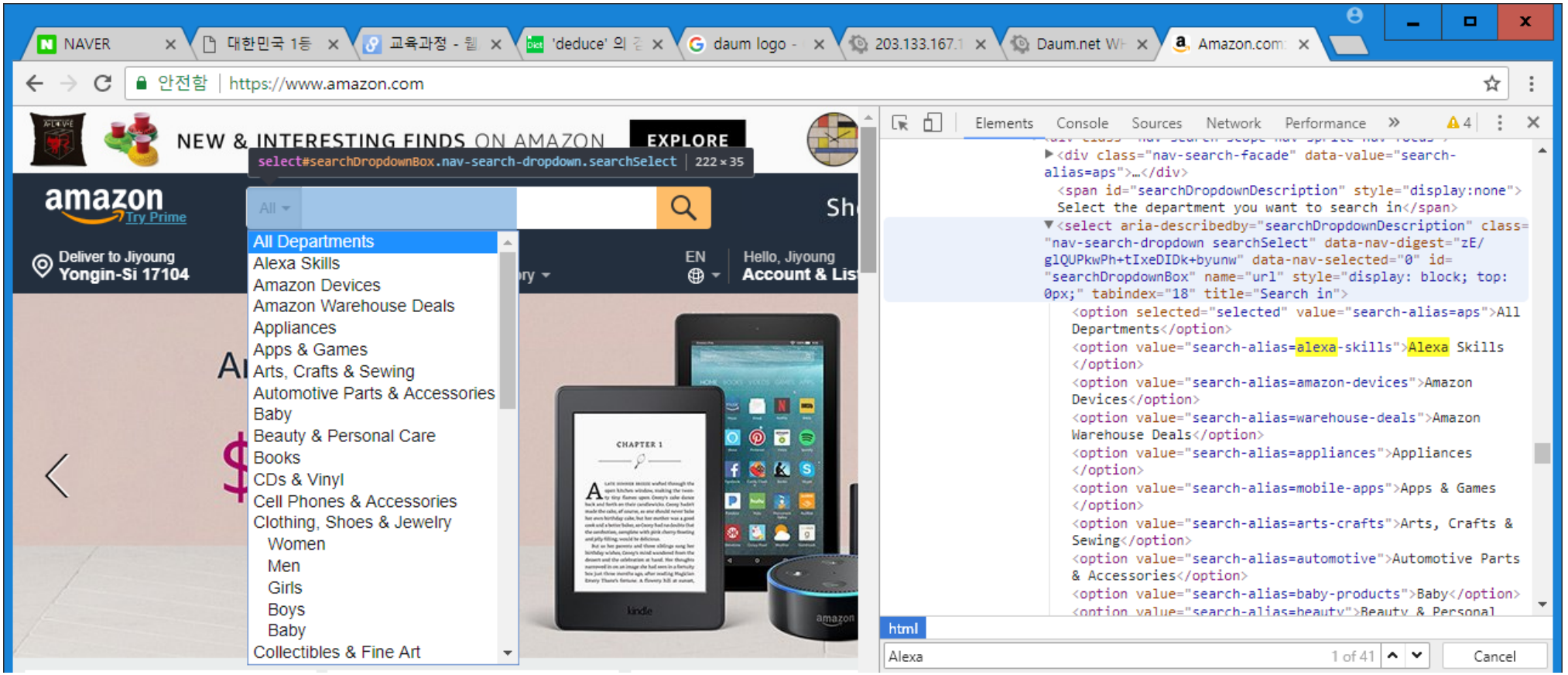
- Try it yourself

HTML forms -> Form elements



Example: Amazon.com

- Chrome 우측상단-> 도구더보기->개발자도구



Adding styles to HTML

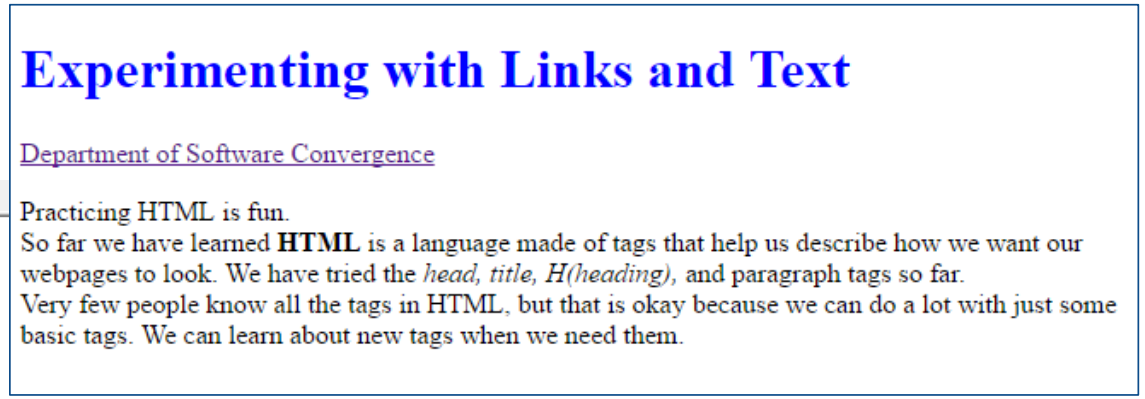
- Cascading Style Sheets (CSS)

- Inline
  - Can be messy and hard to use
- Internal
  - Using a <style> element in <head> section
- External
  - Using an external CSS file

Inline CSS

html1.html | html2.html | html3.html | html4.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>My Second Page</title>
5
6
7  </head>
8
9  <body>
10
11 <H1 style="color:blue;">Experimenting with Links and Text</H1>
12
13 <a href="http://swcon.khu.ac.kr">Department of Software Convergence</a>
14
15 <p>Practicing HTML is fun. <br>So far we have learned
16 <strong>HTML</strong> is a language made of tags that
17 help us describe how we want our webpages to look.
18 We have tried the <em>head, title, H(heading),</em>
19  and paragraph tags so far. <br>
20 Very few people know all the tags in HTML,
21 but that is okay because we can do a lot with just
22  some basic tags. We can learn about new tags when
23  we need them.</p>
24
25 </body>
26
27 </html>
```

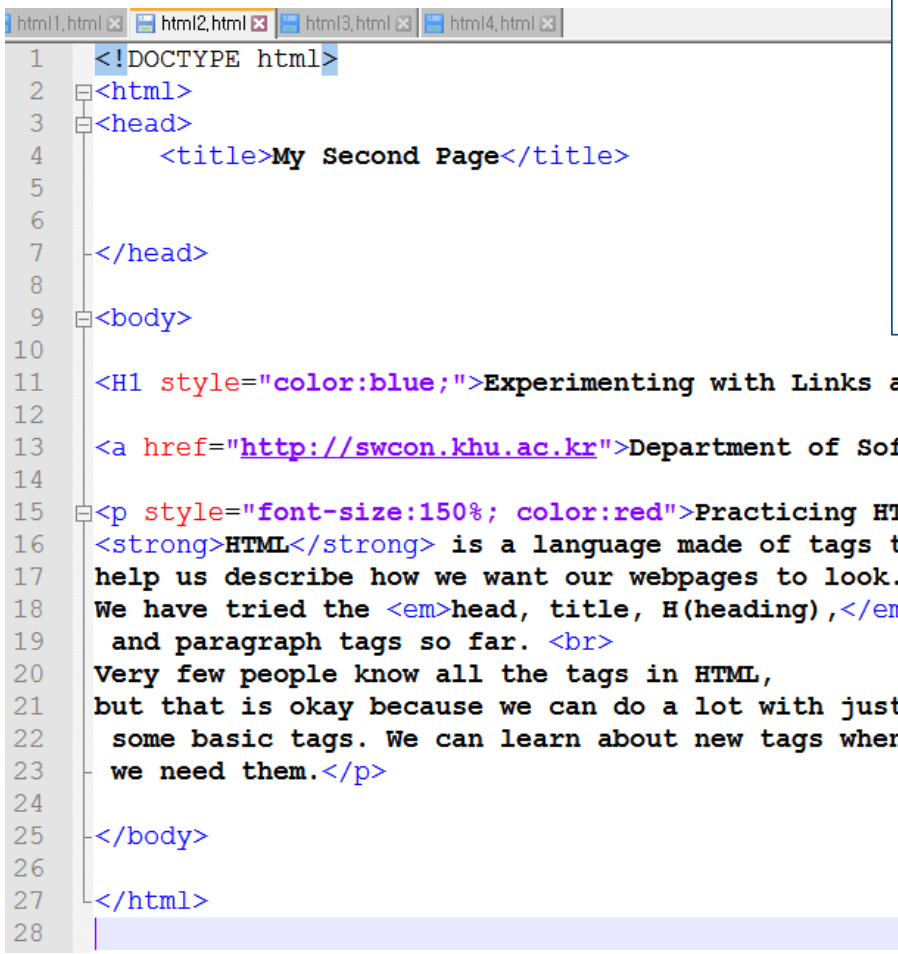


Experimenting with Links and Text

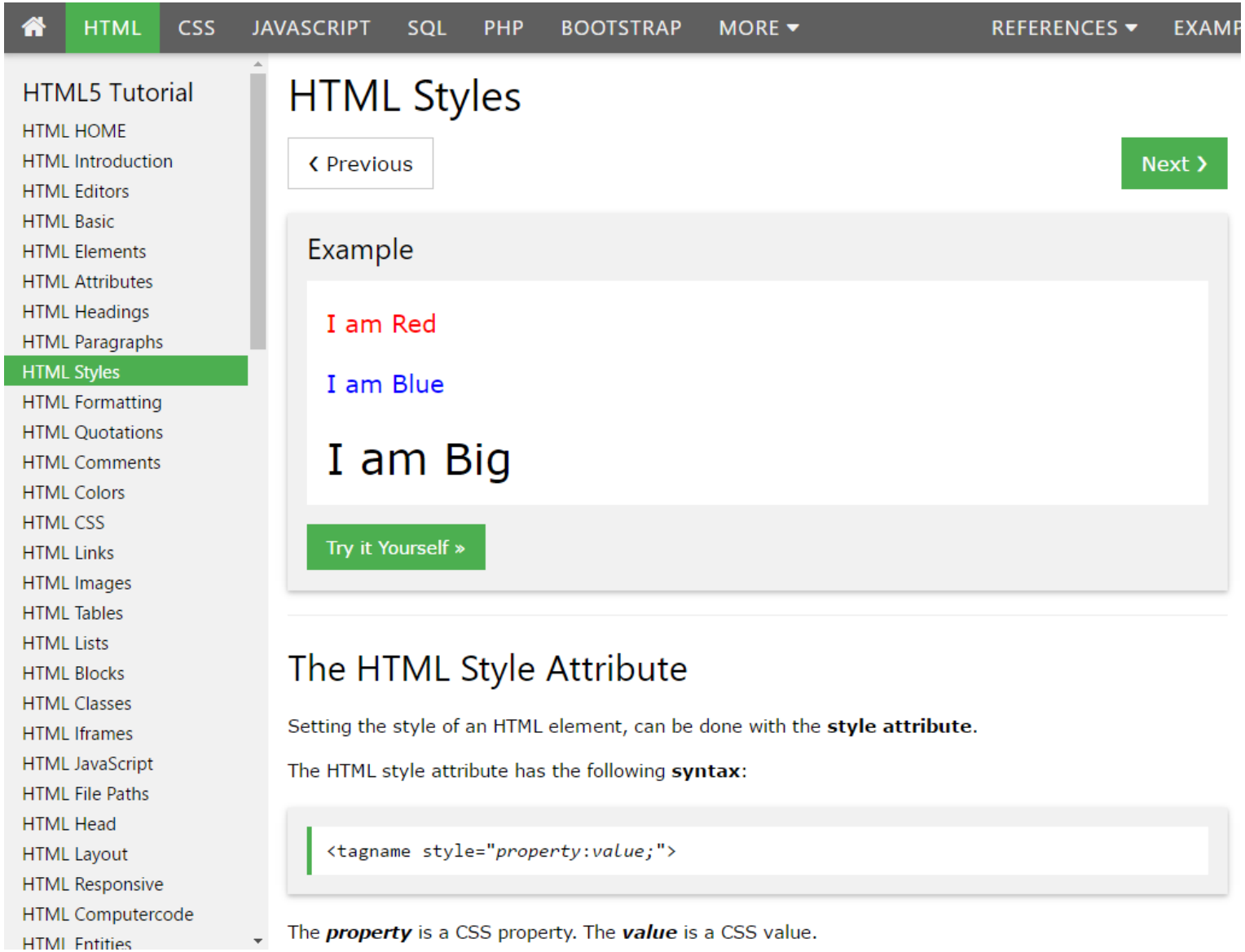
Department of Software Convergence

Practicing HTML is fun.
So far we have learned **HTML** is a language made of tags that help us describe how we want our webpages to look. We have tried the *head, title, H(heading),* and paragraph tags so far.
Very few people know all the tags in HTML, but that is okay because we can do a lot with just some basic tags. We can learn about new tags when we need them.

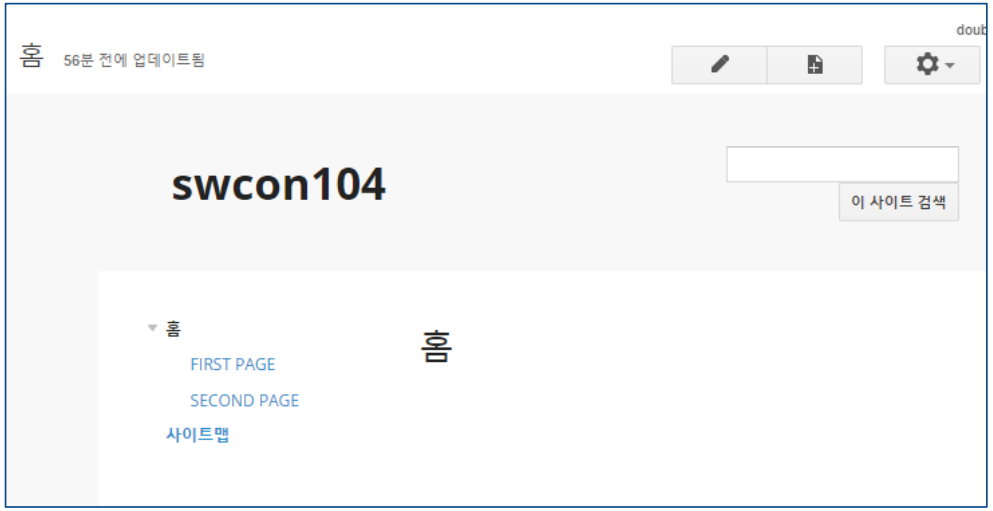
Inline CSS


html1.html
html2.html
html3.html
html4.html
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>My Second Page</title>
5
6
7 </head>
8
9 <body>
10
11 <H1 style="color:blue;">Experimenting with Links and Text</H1>
12
13 <a href="http://swcon.khu.ac.kr">Department of Software Convergence</a>
14
15 Practicing HTML is fun.
So far
16 HTML is a language made of tags that
17 help us describe how we want our webpages to look.
18 We have tried the head, title, H(heading),
19 and paragraph tags so far.
20 Very few people know all the tags in HTML,
21 but that is okay because we can do a lot with just
22 some basic tags. We can learn about new tags when
23 we need them.
24
25 </body>
26
27 </html>
28

Experimenting with Links and Text
Department of Software Convergence
Practicing HTML is fun.
So far we have learned HTML is a language made of tags that help us describe how we want our webpages to look. We have tried the head, title, H(heading), and paragraph tags so far.
Very few people know all the tags in HTML, but that is okay because we can do a lot with just some basic tags. We can learn about new tags when we need them.


HTML
CSS
JAVASCRIPT
SQL
PHP
BOOTSTRAP
MORE
REFERENCES
EXAMP
HTML5 Tutorial
HTML HOME
HTML Introduction
HTML Editors
HTML Basic
HTML Elements
HTML Attributes
HTML Headings
HTML Paragraphs
HTML Styles
HTML Formatting
HTML Quotations
HTML Comments
HTML Colors
HTML CSS
HTML Links
HTML Images
HTML Tables
HTML Lists
HTML Blocks
HTML Classes
HTML Iframes
HTML JavaScript
HTML File Paths
HTML Head
HTML Layout
HTML Responsive
HTML Computercode
HTML Entities
HTML Styles
‹ Previous
Next ›
Example
I am Red
I am Blue
I am Big
Try it Yourself »
The HTML Style Attribute
Setting the style of an HTML element, can be done with the style attribute.
The HTML style attribute has the following syntax:
<tagname style="property:value;">
The property is a CSS property. The value is a CSS value.

Exercise: Create your webpage

- sites.google.com
- Log in with your Google account
- 만들기->기존사이트 도구 사용

- 기본 템플릿
- 사이트 이름 (영어로)
- URL 확인
- 로봇이 아닙니다 체크
- 만들기!