

# **HTML 5 Sections**

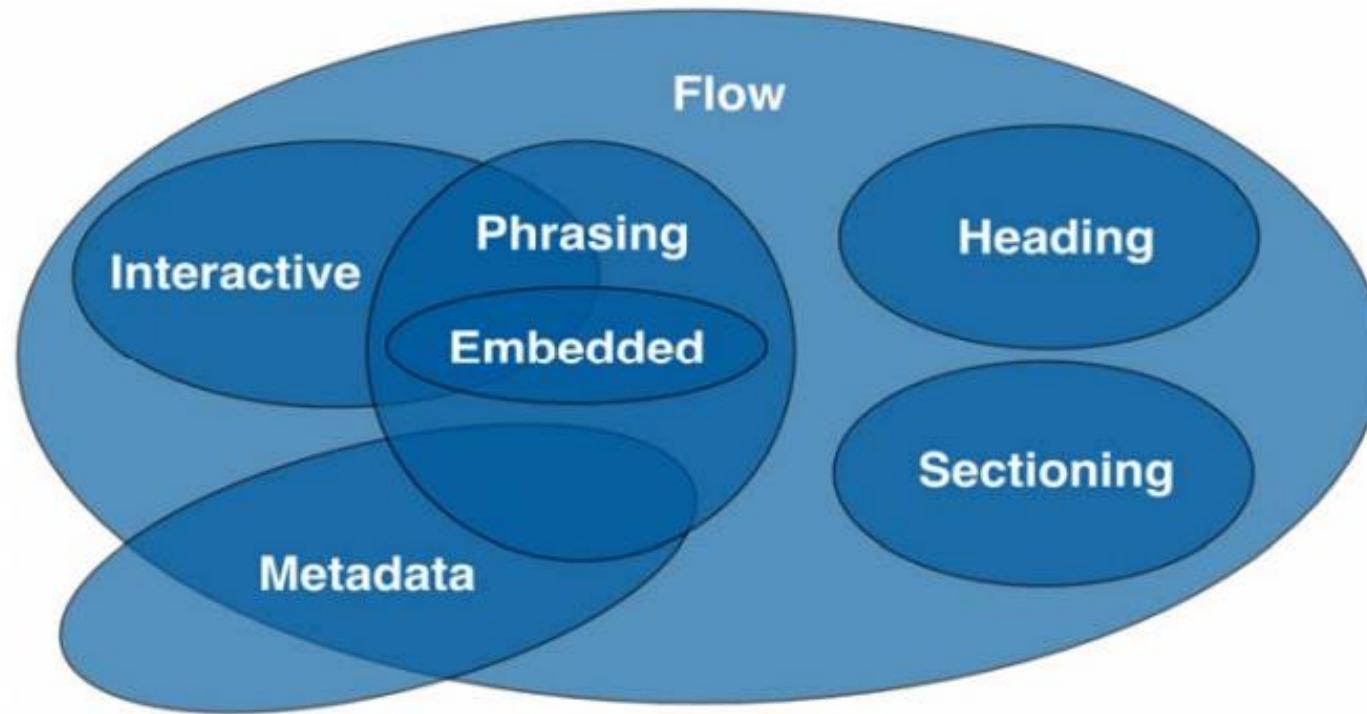
**HTML**



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# Contents Model

- A normative description of what content must be included as children and descendants of the element.



# Contents Model – Metadata content

- Is content that sets up the presentation or behavior of the rest of the content, or that sets up the relationship of the document with other documents, or that conveys other "out of band" information.
- **base, command, link, meta, noscript, script, style, title**

# Contents Model – Flow content

- Most elements that are used in the *body* of documents and applications.
- **a, abbr, address, map>area, article, aside, audio, b, bdo, blockquote, brbutton, canvas, cite, code, command, datalist, del, details, dfn, div, dl, em, embed, fieldset, figure, footer, form, h1 ~ h6, header, hgroup, hr, i, iframe, img, input, ins, kbd, keygen, label, map, mark, math, menu, meter, nav, noscript, object, ol, output, p, pre, progress, q, ruby, samp, script, section, select, small, span, strong, style[scoped], sub, sup, svg, table, textarea, time, ul, var, video, wbr**
- **text**

# Contents Model – Sectioning content

- Is content that defines the scope of *headings*s and *footers*.
- **article, aside, nav, section**

# Contents Model – Heading content

- Defines the header of a section.
- **h1, h2, h3, h4, h5, h6**

# Contents Model – Phrasing content

- Is the text of the document, as well as elements that mark up that text at the intra-paragraph level.
- **a, abbr, map>area, audio, b, bdo, br, button, canvas, cite, code, command, datalist, del, dfn, em, embed, i, iframe, img, input, ins, kbd, keygen, label, map, mark, math, meter, noscript, object, output, progress, q, ruby, samp, script, select, small, span, strong, sub, sup, svg, textarea, time, var, video, wbr**
- **text**

# Contents Model – Embedded content

- Is content that imports another resource into the document, or content from another vocabulary that is inserted into the document.
- **audio, canvas, embed, iframe, img, math, object, svg, video**

# Contents Model – Interactive content

- Is content that is specifically intended for user interaction.
- **a, audio[controls], button, details, embed, iframe, img[usemap], input, keygen, label, menu, object[usemap], select, textarea, video[controls]**

# Semantic Markup Benefits

- Based on research (Opera, Google studies on commonly used **div** **class** and **id** names)
- Cleaner, less verbose markup (replace **div** and **span** elements with meaningful elements)
- Machine readable:
  - Search engines
  - Syndication
- Linking and sharing

# <body>

- Defines the document's body.
- Differences Between HTML 4.01 and HTML5
  - All layout attributes is removed from HTML5.
  - All layout attributes is *deprecated* in HTML 4.01.
    - **alink, background, bgcolor, link, text, vlink**

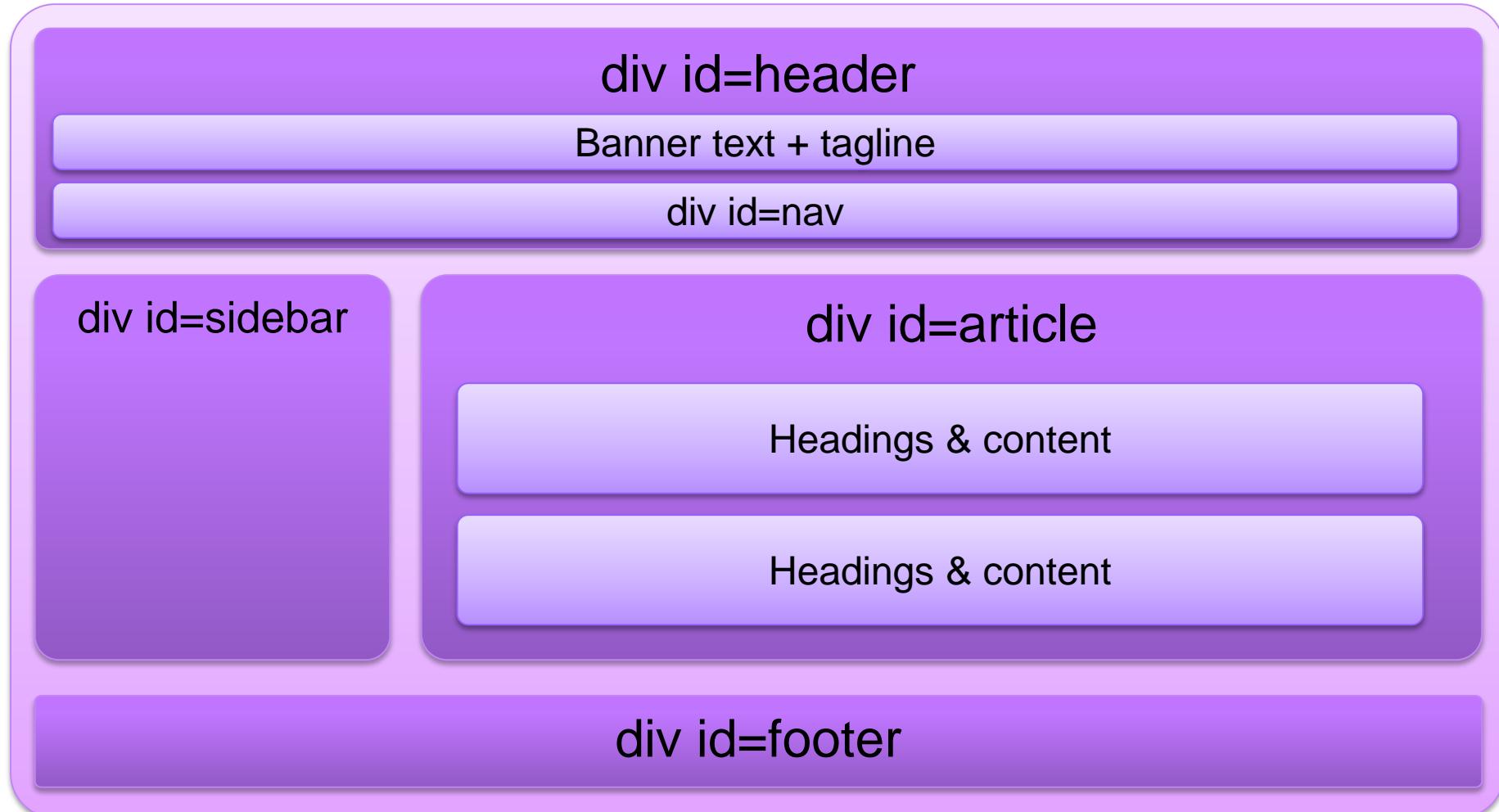
# Typical HTML Page Structure

```
1  

2    <h1>Tales of Woe</h1>
3    <p class="tagline">The never ending saga continues...</p>
4    <div id="nav">
5      <h2>Navigation</h2>
6      <ul>
7        <li><a href="one.html">Page One</a></li>
8        <li><a href="two.html">Page Two</a></li>
9        <li><a href="three.html">Page the Third</a></li>
10       </ul>
11     </div>
12   </div>
13   <div class="article">
14     <h2>The Stagnant Staircase</h2>
15     <p>It was a dark and stormy night...</p>
16   </div>
17   <div id="footer">
18     <p>©2010 In Your Nightmares Productions.</p>
19   </div>


```

# How HTML 4-style structure might look



# Typical HTML5 Page Structure

```
1  <header>
2    <hgroup>
3      <h1>Tales of Woe</h1>
4      <h2>The never ending saga continues...</h2>
5    </hgroup>
6    <nav>
7      <h2>Navigation</h2>
8      <ul>
9        <li><a href="one.html">Page One</a></li>
10       <li><a href="two.html">Page Two</a></li>
11       <li><a href="three.html">Page the Third</a></li>
12     </ul>
13   </nav>
14 </header>
15 <article>
16   <h2>The Stagnant Staircase</h2>
17   <p>It was a dark and stormy night...</p>
18 </article>
19 <footer>
20   <p>©2010 In Your Nightmares Productions.</p>
21 </footer>
```

# Structural elements in HTML5

<header>

<hgroup>

<nav>

<aside>

<article>

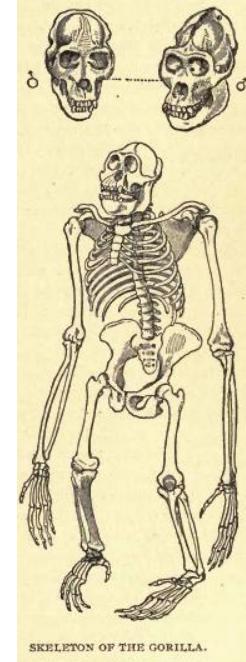
<section>

<section>

<footer>

# Sectioning off headings

```
<section>
  <h1>Homininae</h1>
  <section>
    <h1>Gorillini</h1>
    <section>
      <h1>Gorilla gorilla</h1>
      <section>
        <h1>Gorilla gorilla gorilla</h1>
        <h1>Gorilla gorilla diehli</h1>
      </section>
      <h1>Gorilla beringei</h1>
      <section>
        <h1>Gorilla beringei beringei</h1>
        <h1>Gorilla beringei graueri</h1>
      </section>
    </section>
    <h1>Hominini</h1>
    <section>
      <h1>Pan</h1>
      <section>
        <h1>Pan troglodytes</h1>
      <section>
        <h1>Pan troglodytes troglodytes</h1>
        <h1>Pan troglodytes verus</h1>
        <h1>Pan troglodytes vellerosus</h1>
        <h1>Pan troglodytes schweinfurthii</h1>
      </section>
      <h1>Pan paniscus</h1>
    </section>
  </section>
<h1>Homo</h1>
<section>
  <h1>Homo sapiens</h1>
  <section>
    <h1>Homo sapiens sapiens</h1>
  </section>
</section>
</section>
</section>
```



SKELETON OF THE GORILLA.

# Sectioning results:

Homininae

Gorillini

*Gorilla gorilla*

*Gorilla gorilla gorilla*

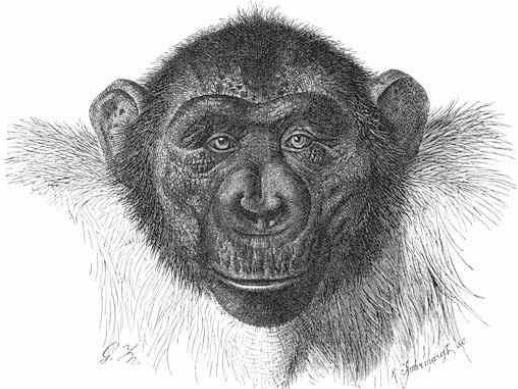
*Gorilla gorilla diehli*

*Gorilla beringei*

*Gorilla beringei beringei*

*Gorilla beringei graueri*

Hominini



Pan

*Pan traglodytes*

*Pan troglodytes troglodytes*

*Pan troglodytes verus*

*Pan troglodytes vellerosus*

*Pan troglodytes schweinfurthi*

ii

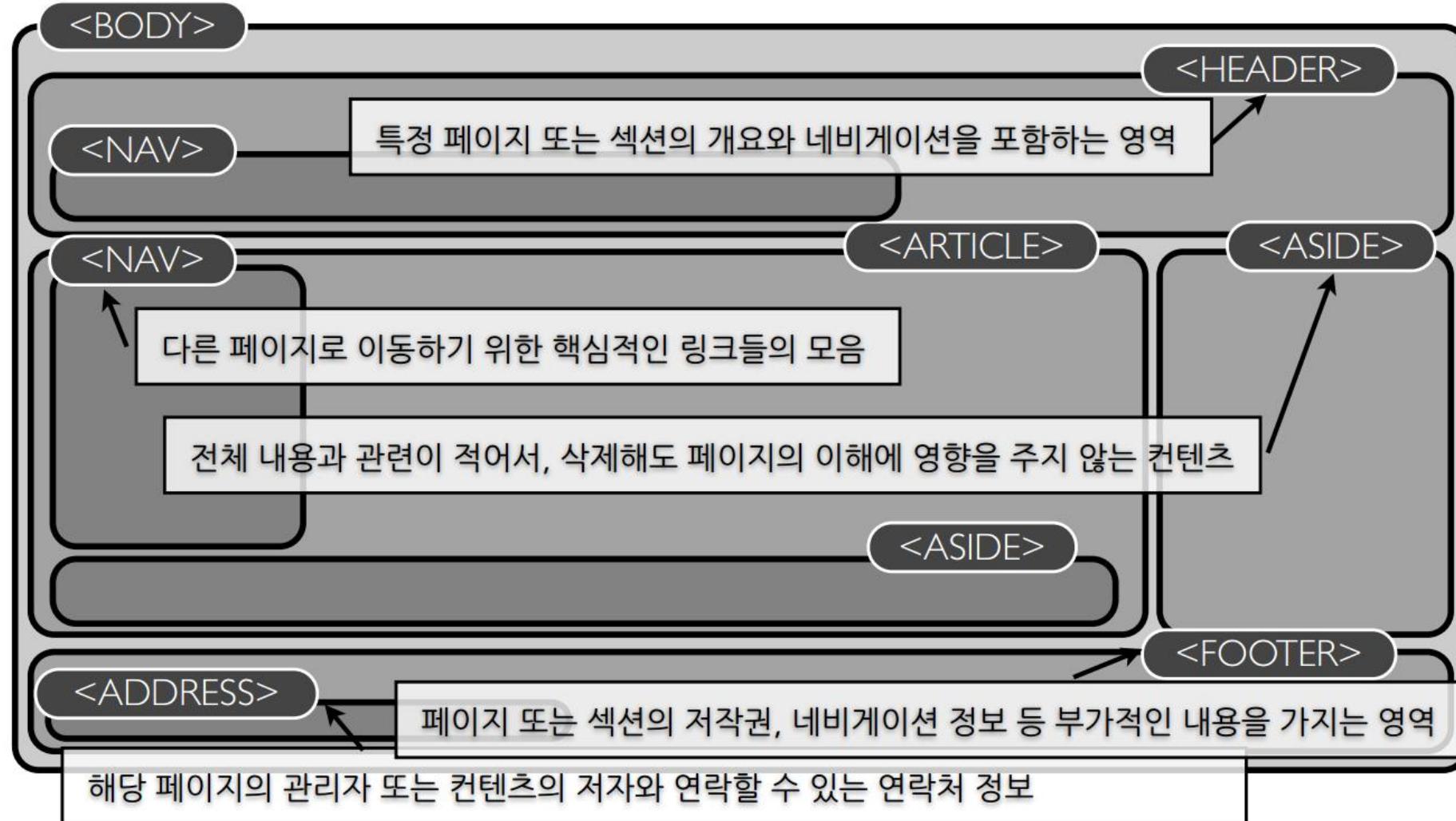
*Pan paniscus*

Homo

*Homo sapiens*

*Homo sapiens sapiens*

# HTML Sections



# HTML Section (Cont.)

## HTML 4

```
<div id="header">
```

```
<div id="nav">
```

```
<div class="article">
```

```
<div class="section">
```

```
<div id="sidebar">
```

```
<div id="footer">
```

# HTML Sections (Cont.)

## HTML 5 - Introduces New Elements

<header>

<nav>

<article>

<section>

<aside>

<footer>

# HTML Sections (Cont.)

The div elements can be replaced with the new elements: header, nav, section, article, aside, and footer.

```
<body>
  <header>...</header>
  <nav>...</nav>
  <article>
    <section>

    ...
    </section>
  </article>
  <aside>...</aside>
  <footer>...</footer>
</body>
```

## <article>

- Specifies independent, self-contained content.
- Should make sense on its own and it should be possible to distribute it independently from the rest of the site.
- Potential sources for the <article> element:
  - Forum post
  - Blog post
  - News story
  - Comment

# <article> (Cont.)

```
1  <article>
2    <h1>Internet Explorer 9</h1>
3    <p>Windows Internet Explorer 9 (abbreviated as IE9) was released to
4      the public on March 14, 2011 at 21:00 PDT.....</p>
5  </article>
```

```
1  <article>
2    <header>
3      <h1>The Very First Rule of Life</h1>
4      <p><time datetime="2009-10-09">3 days ago</time></p>
5      <link href="?comments=0">
6    </header>
7    <p>If there's a microphone anywhere near you, assume it's hot and
8      sending whatever you're saying to the world. Seriously.</p>
9    <p>...</p>
10   <footer>
11     <a href="?comments=1">Show comments...</a>
12   </footer>
13 </article>
```

## <header>

- Specifies a header for a document or section.
- Should be used as a container for introductory content or set of navigational links.
- Can have several <header> elements in one document.
- Cannot be placed within a <footer>, <address> or another <header> element.

# <header>

```
1 <article>
2   <header>
3     <h1>Internet Explorer 9</h1>
4     <p><time pubdate datetime="2011-03-15"></time></p>
5   </header>
6   <p>Windows Internet Explorer 9 (abbreviated as IE9) was released to
7   the public on March 14, 2011 at 21:00 PDT.....</p>
8 </article>
```

## <section>

- Defines sections in a document, such as chapters, headers, footers, or any other sections of the document.

```
1 <section>
2   <h1>WWF</h1>
3   <p>The World Wide Fund for Nature (WWF) is....</p>
4 </section>
```

# <section> (Cont.)

```
1 <article>
2   <header>
3     <h1>Apples</h1>
4     <p>Tasty, delicious fruit!</p>
5   </header>
6   <p>The apple is the pomaceous fruit of the apple tree.</p>
7   <section>
8     <h1>Red Delicious</h1>
9     <p>These bright red apples are the most common found in many
10    supermarkets.</p>
11   </section>
12   <section>
13     <h1>Granny Smith</h1>
14     <p>These juicy, green apples make a great filling for
15    apple pies.</p>
16   </section>
17 </article>
```

## <nav>

- Defines a set of navigation links.
- Not all links of a document must be in a <nav> element.
- Is intended only for major block of navigation links.

```
1  <nav>
2    <a href="/html/">HTML</a> |
3    <a href="/css/">CSS</a> |
4    <a href="/js/">JavaScript</a> |
5    <a href="/jquery/">jQuery</a>
6  </nav>
```

## <aside>

- Defines some content aside from the content it is placed in.
- The aside content should be related to the surrounding content.

```
1 <p>My family and I visited The Epcot center this summer.</p>
2
3 <aside>
4   <h4>Epcot Center</h4>
5   <p>The Epcot Center is a theme park in Disney World, Florida.</p>
6 </aside>
```

## <h1> ~ <h6>



- Are used to define HTML headings.
- <h1> defines the most important heading.
- <h6> defines the least important heading.

```
1 <h1>This is heading 1</h1>
2 <h2>This is heading 2</h2>
3 <h3>This is heading 3</h3>
4 <h4>This is heading 4</h4>
5 <h5>This is heading 5</h5>
6 <h6>This is heading 6</h6>
```

h1의 크기

h2의 크기

h3의 크기

h4의 크기

h5의 크기

h6의 크기

## <h1> ~ <h6> (Cont.)

### ■ Differences Between HTML 4.01 and HTML5

- The **align** attribute is *deprecated* in HTML 4.01, and is not supported in HTML5.
- Use CSS to align elements.

## <footer>

- Defines a footer for a document or section.
- Should contain information about its containing element.
- A footer typically contains the author of the document, copyright information, links to terms of use, contact information, etc.
- You can have several <footer> elements in one document.

```
1  <footer>
2    <p>Posted by: Hege Refsnes</p>
3    <p>Contact information: <a href="mailto:someone@example.com">
4      someone@example.com</a>.</p>
5  </footer>
```

## <address>



- Defines the contact information for the author/owner of a document or an article.
- The text in the <**address**> element usually renders in *italic*.
- Will typically be included along with other information in a <**footer**> element.

## <address> (Cont.)

```
1 <address>
2 Written by <a href="mailto:webmaster@example.com">Jon Doe</a>.<br>
3 Visit us at:<br>
4 Example.com<br>
5 Box 564, Disneyland<br>
6 USA
7 </address>
```

Written by Jon Doe.  
Visit us at:  
Example.com  
Box 564, Disneyland  
USA

```
1 <footer>
2   <address>
3     For more details, contact
4       <a href="mailto:js@example.com">John Smith</a>.
5     </address>
6     <p><small>© copyright 2038 Example Corp.</small></p>
7   </footer>
```

# Lab1 : HTML4-style Layout

- Web Browsers

- IE10, Firefox, Google Chrome, Opera, Safari

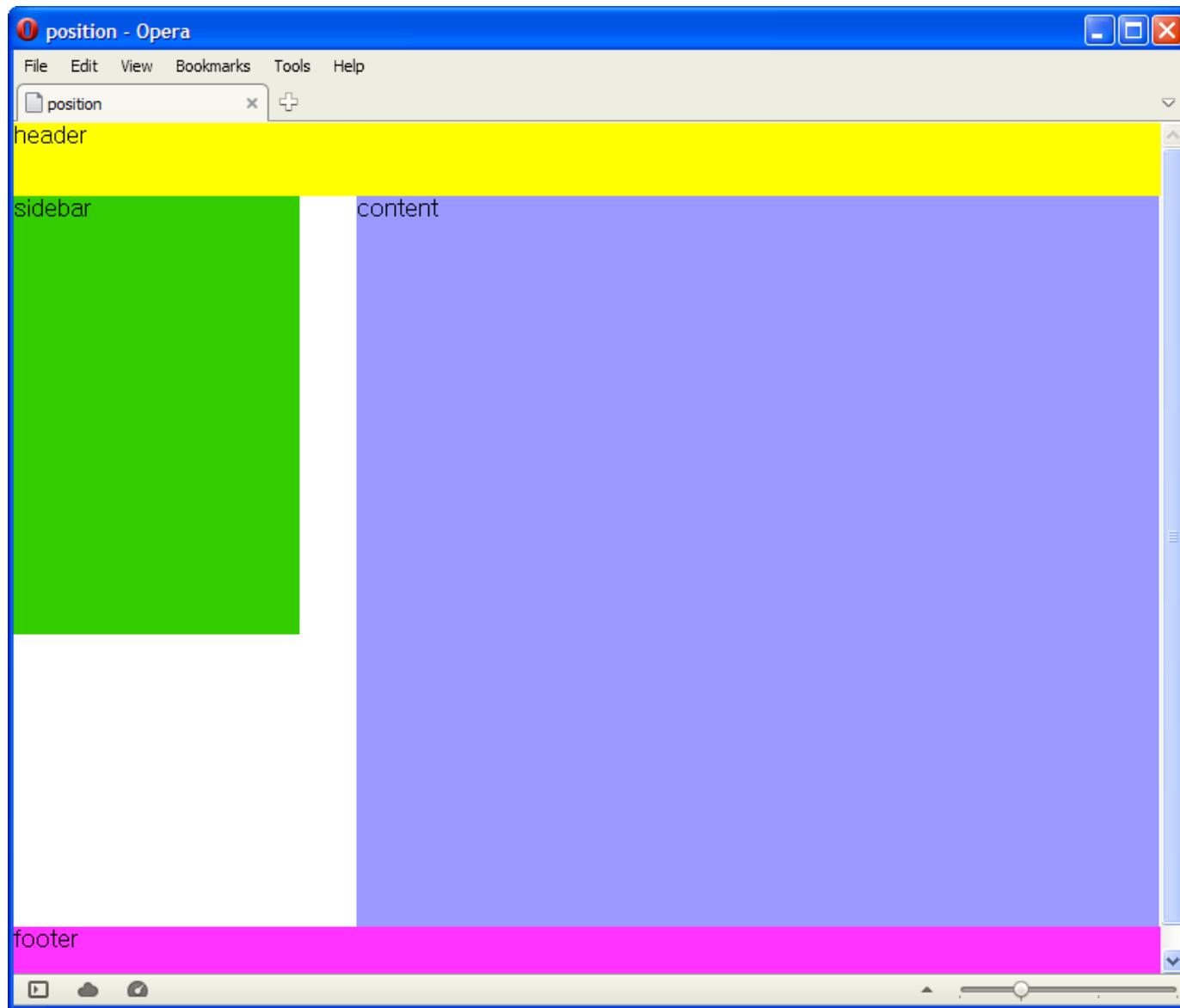
- Text Editors

- Notepad++, Editplus, etc...

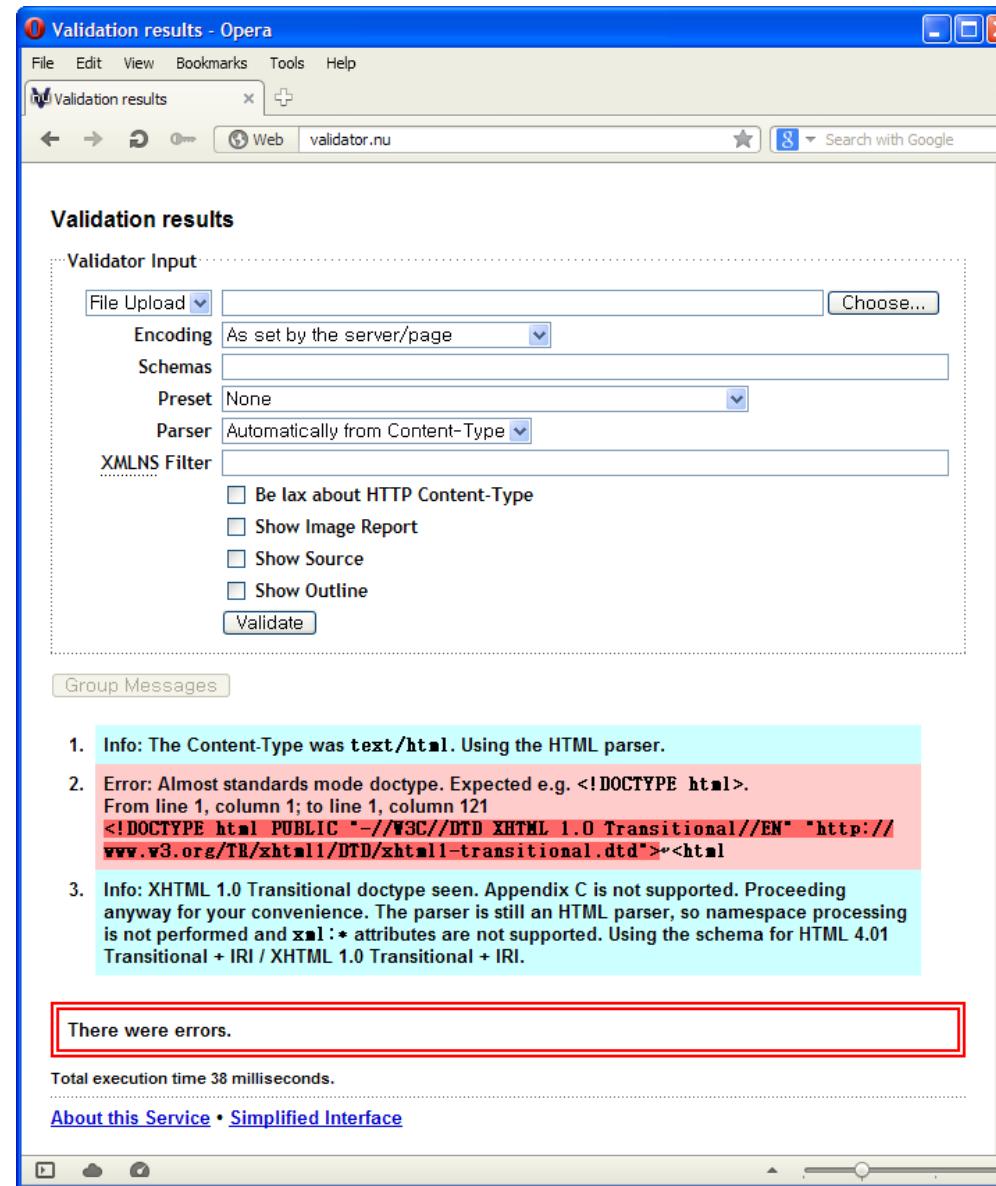
- Files

- position.html

# Lab1 : position.html



# Lab1 : Validating



# Lab2 : Division Tag

- Web Browsers

- IE10, Firefox, Google Chrome, Opera, Safari

- Text Editors

- Notepad++, Editplus, etc...

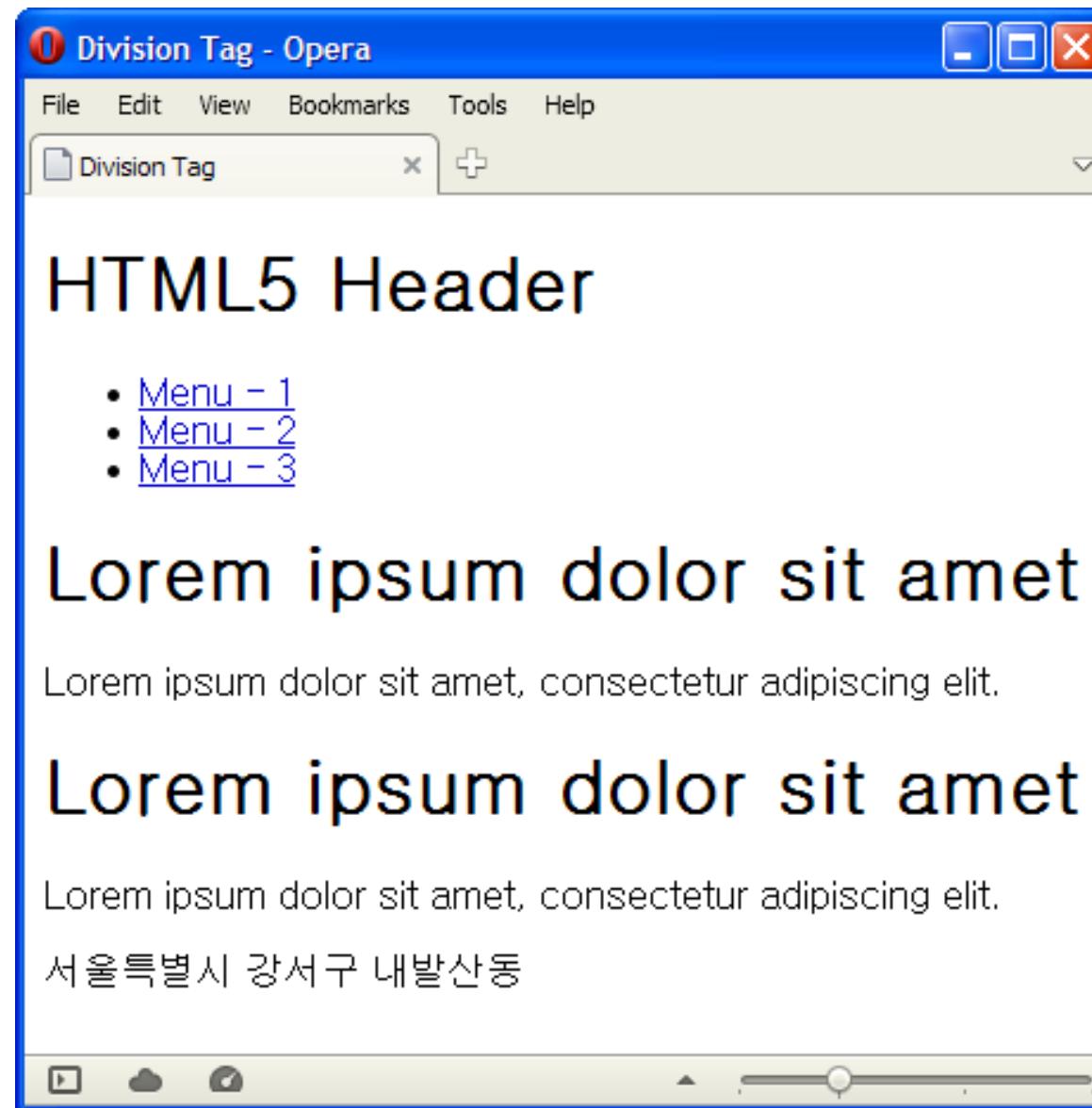
- Files

- div.html

# Lab2 : div.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Division Tag</title>
5  </head>
6  <body>
7      <div>
8          <h1>HTML5 Header</h1>
9      </div>
10     <div>
11         <ul>
12             <li><a href="#">Menu - 1</a></li>
13             <li><a href="#">Menu - 2</a></li>
14             <li><a href="#">Menu - 3</a></li>
15         </ul>
16     </div>
17     <div>
18         <div>
19             <h1>Lore ipsum dolor sit amet</h1>
20             <p>Lore ipsum dolor sit amet, consectetur adipiscing elit.</p>
21         </div>
22         <div>
23             <h1>Lore ipsum dolor sit amet</h1>
24             <p>Lore ipsum dolor sit amet, consectetur adipiscing elit.</p>
25         </div>
26     </div>
27     <div>
28         <span>서울특별시 강서구 내발산동</span>
29     </div>
30 </body>
31 </html>
```

# Lab2 : Result



# Lab3 : Learning New HTML5 Sections I

## ■ Web Browsers

- IE10, Firefox, Google Chrome, Opera, Safari

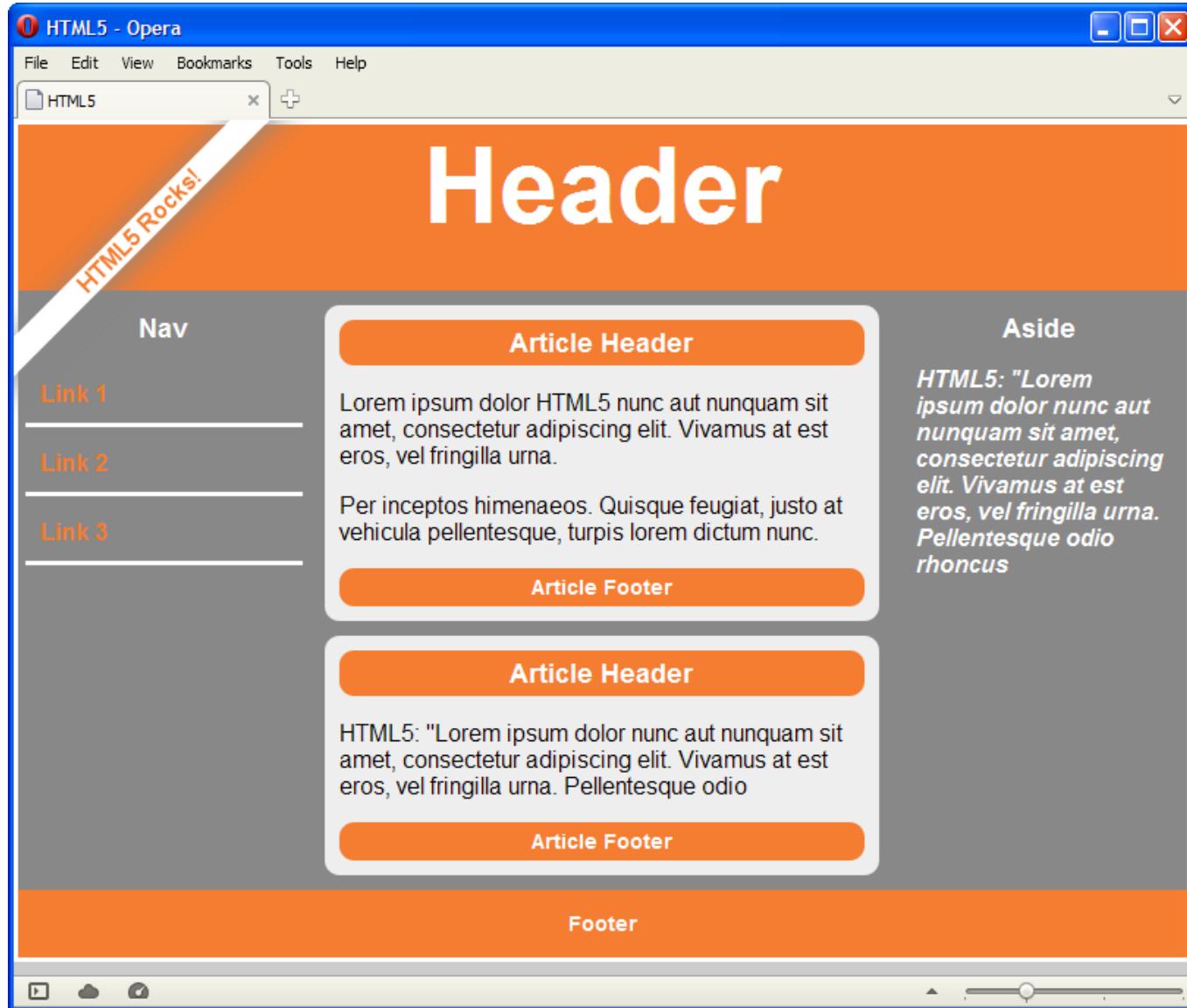
## ■ Text Editors

- Notepad++, Editplus, etc...

## ■ Files

- sample.html
- html5.css

# Lab3 : Result



# Lab4 : Learning New HTML5 Sections II

## ■ Web Browsers

- IE10, Firefox, Google Chrome, Opera, Safari

## ■ Text Editors

- Notepad++, Editplus, etc...

## ■ Files

- sample1.html
- style1.css
- bg.jpg
- bg2.png

# Lab4 : Result

① 산과 벗하는 산악회 - Opera

File Edit View Bookmarks Tools Help

산과 벗하는 산악회 +

## 산과 벗하는 산악회

주말 산행 뿐만 아니라 주중 산행, 무박 산행도 합니다



산행예절   산행준비   산행종류   보행요령   등산식량

### 산행 예절

**인사**

인사를 할 때에는 너무 큰소리로 하지 말고 상대방이 똑똑히 들을 정도의 소리로 인사한다. 산행이 중에는 "수고 하십니다"란 인사를 싫어하는 사람이 많다. 오히려 그것 보단 "힐내세요" "조금만 가면 정상입니다" "좋은 산행 되세요"라고 인사가 적당하지 않은가 생각한다. 그리고 단체로 갈 땐 모든 사람이 인사를 하면 안된다 여러 명이 줄지어서 갈 땐 선두에 선 사람이 인사를 하고 뒷 사람은 가볍게 목례정도만 하면 된다.

**추월을 해야 할땐 먼저 양해를 구하자.**

좁은 등산로에서 예고없이 추월을 한다면 배낭 같은 것이 부딪혀 서로 중심이 흐트러질 경우가 많다. 약한 사람은 뒹겨 날 경우도 있다. 추월을 할 땐 미리 "먼저 가겠습니다"라고 하고 비켜주면 그때 "고맙습니다"라고 인사를 하고 추월을 하자.

**올라오는 사람에게 양보를 하자.**

산에서 많이 경험을 하였을 것이다. 내려 오는 사람보단 올라가는 사람이 시간이 출박하다. 또 페이스 유지도 올라오는 사람이 유지하기가 어렵다. 단체일 경우에는 소수인 그룹이 양보한다.

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# Lab5 : Learning New HTML5 Sections III

## ■ Web Browsers

- IE10, Firefox, Google Chrome, Opera, Safari

## ■ Text Editors

- Notepad++, Editplus, etc...

## ■ Files

- sample2.html
- style2.css
- road1.jpg
- road2.jpg
- bg3.jpg
- line.gif

# Lab5 : Result

제주 올레 - Opera

File Edit View Bookmarks Tools Help

제주 올레

## 제주 올레

### 제주 올레 7코스

외돌개를 출발하여 법환포구를 경유해 월평포구까지 머어진 해안올레. 올레인들이 가장 아끼고 **자연생태길인 '수봉로'**를 만날 수 있다. **수봉로**는 세 번째 코스 개척 시기인 2007년 12월, 올레지기인 '김수봉'님이 염소가 다니던 길에 직접 삽과 꼭괭이만으로 계단과 길을 만들어서 사람이 걸어다닐 수 있도록 한 길이다.

**패스포트 스템프 확인 장소**  
시작 외돌개 제주 올레 안내소  
중간 강정 올레 쉼터  
종점 월평 송미 슈퍼

**난이도 :** 상 총 16.4km(4~5시간)  
수봉로는 언덕길이고 일강정 바당올레에서 서건도 사이 바윗길이 험한 편이다.



수봉로 언덕을 넘자마자 다시 만나게 되는 바다.

# Lab6 : Learning New HTML5 Sections IV

## ■ Web Browsers

- IE10, Firefox, Google Chrome, Opera, Safari

## ■ Text Editors

- Notepad++, Editplus, etc...

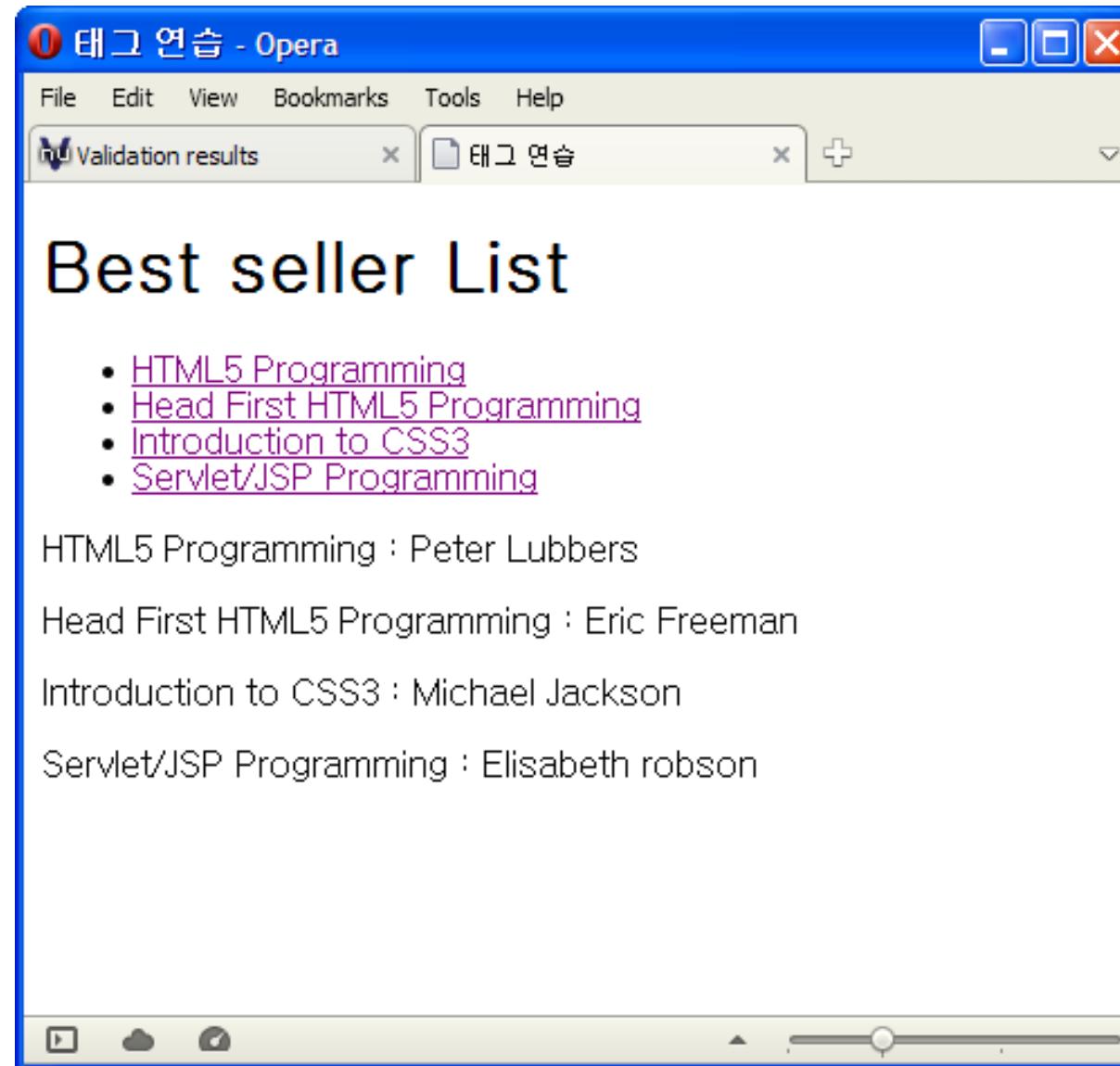
## ■ Files

- sample3.html

# Lab6 : sample3.html

```
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title> 태그 연습 </title>
5          <meta charset="utf-8">
6      </head>
7      <body>
8          <section id="content">
9              <header>
10                 <h1>Best seller List </h1>
11             </header>
12             <nav id="mainList">
13                 <ul>
14                     <li><a href="#">HTML5 Programming</a></li>
15                     <li><a href="#">Head First HTML5 Programming</a></li>
16                     <li><a href="#">Introduction to CSS3</a></li>
17                     <li><a href="#">Servlet/JSP Programming</a></li>
18                 </ul>
19             </nav>
20             <article>
21                 <p>HTML5 Programming : Peter Lubbers</p>
22                 <p>Head First HTML5 Programming : Eric Freeman</p>
23                 <p>Introduction to CSS3 : Michael Jackson</p>
24                 <p>Servlet/JSP Programming : Elisabeth robson</p>
25             </article>
26         </section>
27     </body>
28 </html>
```

# Lab6 : Result



# Lab7 : Semantic Tag

- Web Browsers

- IE10, Firefox, Google Chrome, Opera, Safari

- Text Editors

- Notepad++, Editplus, etc...

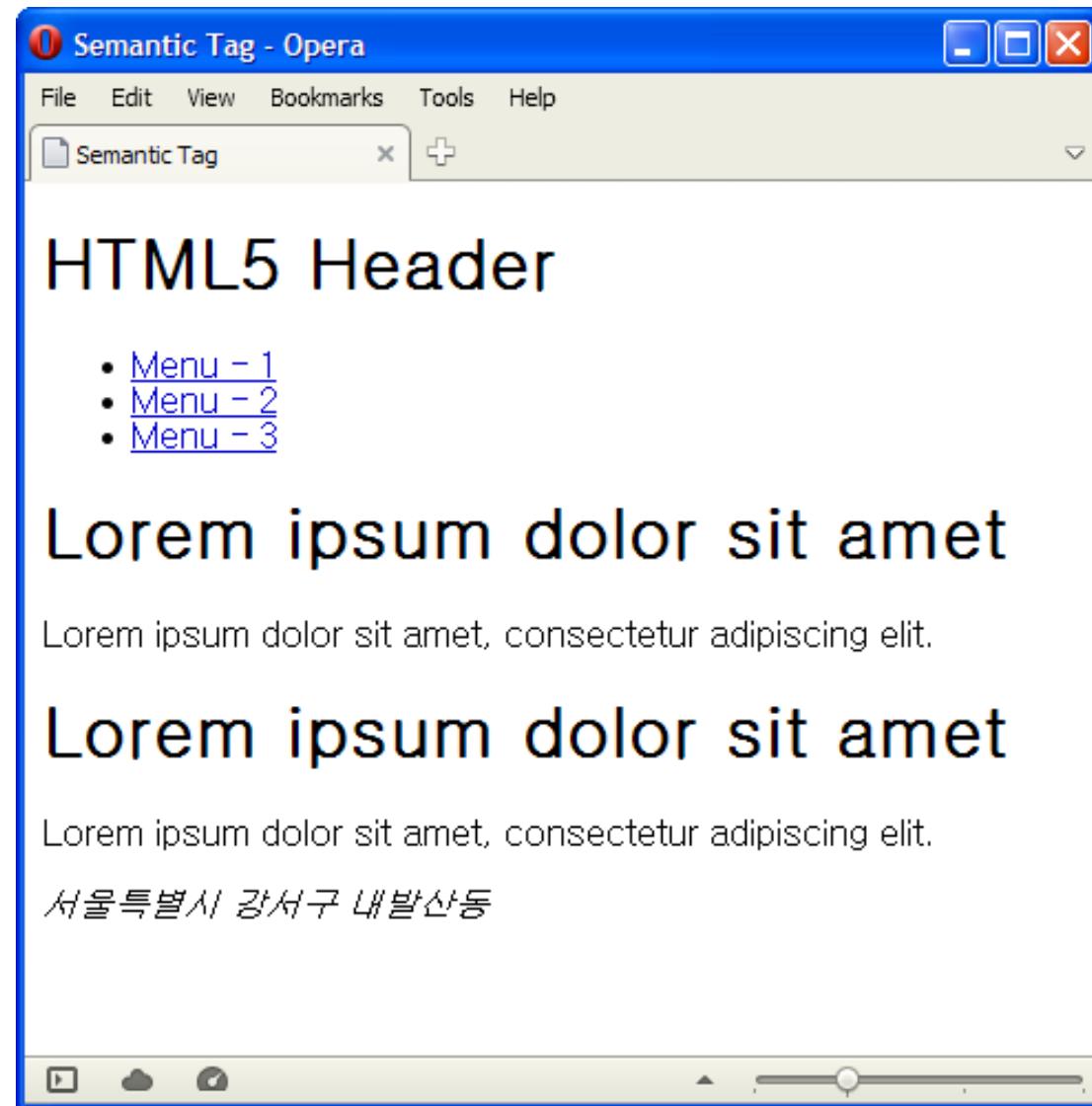
- Files

- semantic.html

# Lab7 : semantic.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Semantic Tag</title>
5  </head>
6  <body>
7      <header>
8          <h1>HTML5 Header</h1>
9      </header>
10     <nav>
11         <ul>
12             <li><a href="#">Menu - 1</a></li>
13             <li><a href="#">Menu - 2</a></li>
14             <li><a href="#">Menu - 3</a></li>
15         </ul>
16     </nav>
17     <section>
18         <article>
19             <h1>Lorem ipsum dolor sit amet</h1>
20             <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
21         </article>
22         <article>
23             <h1>Lorem ipsum dolor sit amet</h1>
24             <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
25         </article>
26     </section>
27     <footer>
28         <address>서울특별시 강서구 내발산동</address>
29     </footer>
30 </body>
31 </html>
```

# Lab7 : Result



# Lab8 : Heading Tag

- Web Browsers

- IE10, Firefox, Google Chrome, Opera, Safari

- Text Editors

- Notepad++, Editplus, etc...

- Files

- heading.html

# Lab8 : heading.html

```
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>Lab : Heading Tag</title>
5      </head>
6      <body>
7          <h1>Header 1</h1>
8          <h2>Header 2</h2>
9          <h3>Header 3</h3>
10         <h4>Header 4</h4>
11         <h5>Header 5</h5>
12         <h6>Header 6</h6>
13     </body>
14 </html>
```

# Lab8 : Result

