[디지털 컨버전스]
스마트 콘텐츠와 웹 융합 응용SW 개발자 양성과정

강사 : 이상훈

학생 : 임초롱
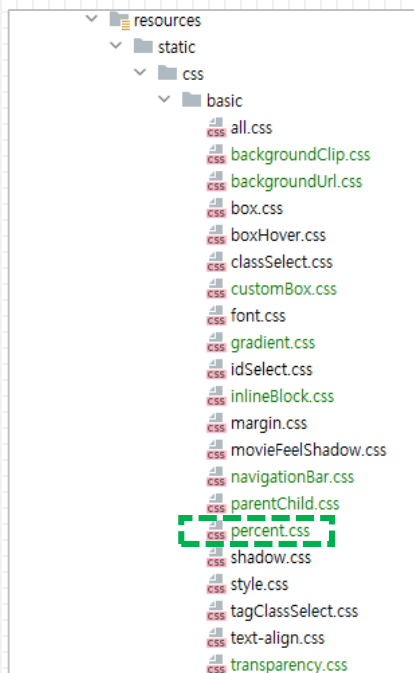
34회차

CSS - Percent

링크 https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main

컨트롤러 클래스

```
8    @Slf4j
9    @Controller
10   @RequestMapping(value = "/css")
11   public class NinethController {
12
13       @GetMapping("/percentTest")
14       public String getPercentTest() {
15           log.info("getPercentTest()");
16
17           return "/csstest/nineth/percentTest";
18       }
```

CSS 위치

```
∨  resources
   ∨  static
      ∨  css
         ∨  basic
              all.css
              backgroundClip.css
              backgroundUrl.css
              box.css
              boxHover.css
              classSelect.css
              customBox.css
              font.css
              gradient.css
              idSelect.css
              inlineBlock.css
              margin.css
              movieFeelShadow.css
              navigationBar.css
              parentChild.css
              percent.css
              shadow.css
              style.css
              tagClassSelect.css
              text-align.css
              transparency.css
```
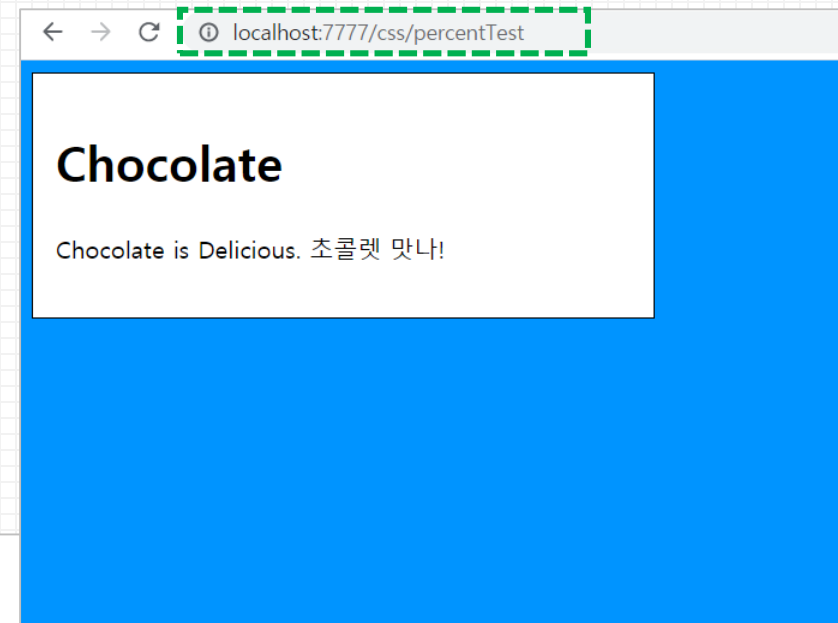
CSS

```
1    body {
2        background-color: #0094ff;
3    }
4    div {
5        background-color: white;
6        width: 30%;
7        padding: 15px;
8        border: 1px solid black;
9    }
10   p{
11       line-height: 30px;
12   }
```

html

```
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <title>Title</title>
6        <link rel="stylesheet" href="/css/basic/percent.css">
7    </head>
8    <body>
9        <div>
10           <h1>Chocolate</h1>
11           <p>Chocolate is Delicious.
12           초콜렛 맛나!</p>
13       </div>
14   </body>
15   </html>
```
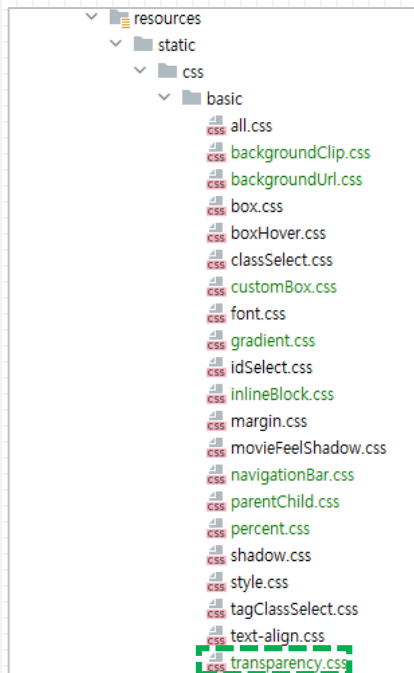
생성된 html

localhost:7777/css/percentTest

Chocolate

Chocolate is Delicious. 초콜렛 맛나!

CSS – Transparency

컨트롤러 클래스

```java
8    @Slf4j
9    @Controller
10   @RequestMapping(value = "/css")
11   public class NinethController {

20       @GetMapping("/TransparencyTest")
21       public String getTransparencyTest() {
22           log.info("getTransparencyTest()");
23
24           return "/csstest/nineth/transparencyTest";
25       }
```
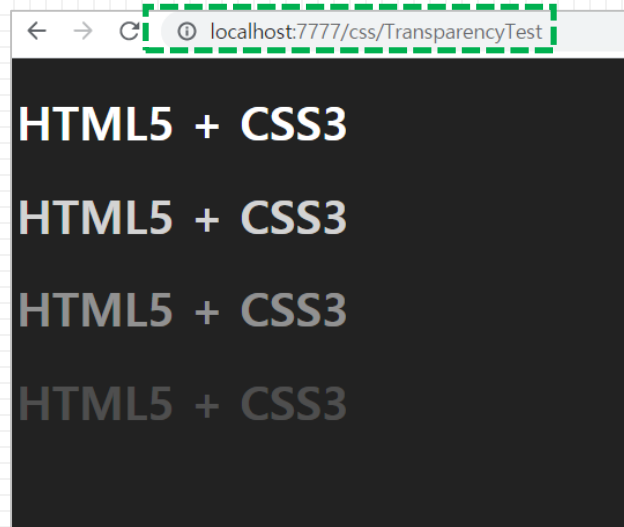
CSS 위치

```
resources
  static
    css
      basic
        all.css
        backgroundClip.css
        backgroundUrl.css
        box.css
        boxHover.css
        classSelect.css
        customBox.css
        font.css
        gradient.css
        idSelect.css
        inlineBlock.css
        margin.css
        movieFeelShadow.css
        navigationBar.css
        parentChild.css
        percent.css
        shadow.css
        style.css
        tagClassSelect.css
        text-align.css
        transparency.css
```

CSS

```css
1    body {
2        background: #222222;
3    }
4    .text1 {
5        color: rgb(255, 255, 255);
6    }
7    .text2 {
8        color: rgba(255, 255, 255, 0.8);
9    }
10   .text3 {
11       color: rgba(255, 255, 255, 0.5);
12   }
13   .text4 {
14       color: rgba(255, 255, 255, 0.2);
15   }
16
17   /* 알파값이 투명도, 알파값이 작을수록 투명해진다. */
```

생성된 html

```
localhost:7777/css/TransparencyTest

HTML5 + CSS3

HTML5 + CSS3

HTML5 + CSS3

HTML5 + CSS3
```

html

```html
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <title>Title</title>
6        <link rel="stylesheet" href="/css/basic/transparency.css">
7    </head>
8    <body>
9        <h1 class="text1">HTML5 + CSS3</h1>
10       <h1 class="text2">HTML5 + CSS3</h1>
11       <h1 class="text3">HTML5 + CSS3</h1>
12       <h1 class="text4">HTML5 + CSS3</h1>
13   </body>
14   </html>
```

CSS – Background-clip

링크 https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main

컨트롤러 클래스

```
8    @Slf4j
9    @Controller
10   @RequestMapping(value = "/css")
11   public class NinethController {

27       @GetMapping("/backgroundClipTest")
28       public String getBackgroundClipTest() {
29           log.info("getBackgroundClipTest()");
30
31           return "/csstest/nineth/backgroundClipTest";
32       }
```

CSS 위치

```
resources
  static
    css
      basic
        all.css
        backgroundClip.css
        backgroundUri.css
        box.css
        boxHover.css
        classSelect.css
        customBox.css
        font.css
        gradient.css
        idSelect.css
        inlineBlock.css
        margin.css
        movieFeelShadow.css
        navigationBar.css
        parentChild.css
        percent.css
        shadow.css
        style.css
        tagClassSelect.css
        text-align.css
        transparency.css
```

html

```
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <title>Title</title>
6        <link rel="stylesheet" href="/css/basic/backgroundClip.css">
7    </head>
8    <body>
9        <div class="bg1">
10           <p>
11               <strong>Tomato: </strong>
12               Tomato는 빨간색!
13           </p>
14       </div>
15       <div class="bg2">
16           <p>
17               <strong>Orange: </strong>
18               Orange는 주황색!
19           </p>
20       </div>
21       <div class="bg3">
22           <p>
23               <strong>Melon: </strong>
24               Melon은 연두색!
25           </p>
26       </div>
27   </body>
28   </html>
```
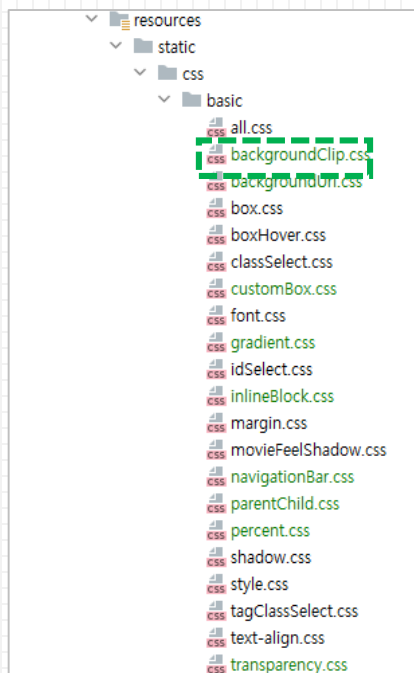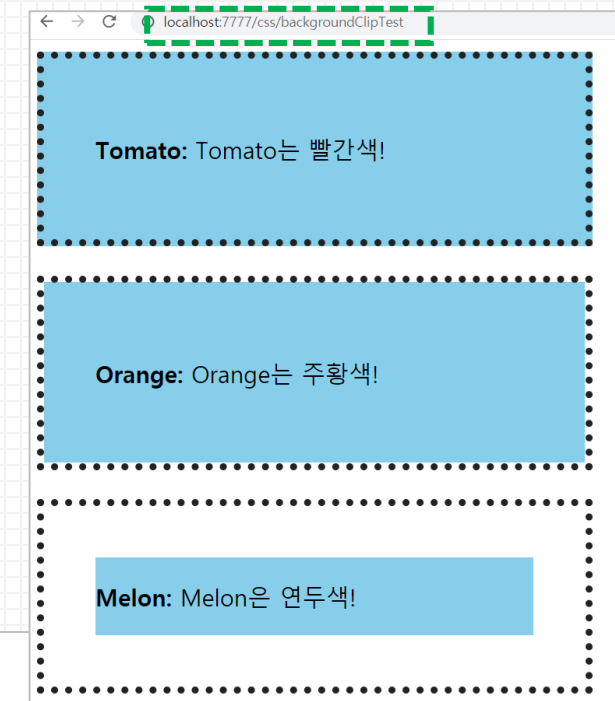
CSS

```
1    div {
2        width: 300px;
3        padding: 35px;
4        border: 5px dotted #222222;
5        background: skyblue;
6        margin-bottom: 20px;
7    }
8    .bg1 {
9        background-clip: border-box;
10   }
11   .bg2 {
12       background-clip: padding-box;
13   }
14   .bg3 {
15       background-clip: content-box;
16   }
```

생성된 html

localhost:7777/css/backgroundClipTest

Tomato: Tomato는 빨간색!

Orange: Orange는 주황색!

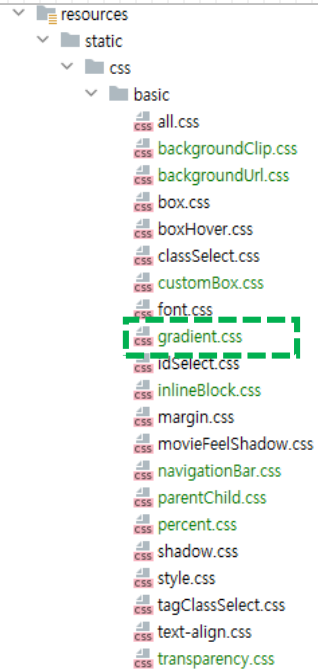**Melon:** Melon은 연두색!

CSS – Gradient

링크 https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main

컨트롤러 클래스

```
8       @Slf4j
9       @Controller
10      @RequestMapping(value = "/css")
11      public class NinethController {


34          @GetMapping("/gradientTest")
35          public String getGradientTest() {
36              log.info("getGradientTest()");
37
38              return "/csstest/nineth/gradientTest";
39          }
```
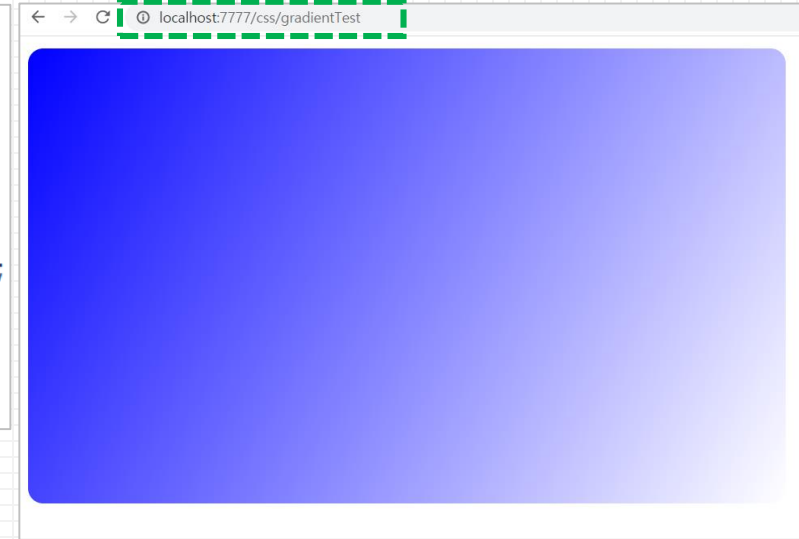
CSS

```
1   div {
2       width: 500px;
3       height: 300px;
4       border-radius: 10px;
5   }
6   .grad {
7       background: purple;
8       background: -webkit-linear-gradient(left top, blue, white);
9       background: -moz-linear-gradient(left top, blue, white);
10      background: -o-linear-gradient(left top, blue, white);
11      background: linear-gradient(left top, blue, white);
12  }
```

생성된 html

localhost:7777/css/gradientTest

CSS 위치

```
resources
  static
    css
      basic
        all.css
        backgroundClip.css
        backgroundUrl.css
        box.css
        boxHover.css
        classSelect.css
        customBox.css
        font.css
        gradient.css
        idSelect.css
        inlineBlock.css
        margin.css
        movieFeelShadow.css
        navigationBar.css
        parentChild.css
        percent.css
        shadow.css
        style.css
        tagClassSelect.css
        text-align.css
        transparency.css
```

html

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <title>Title</title>
6       <link rel="stylesheet" href="/css/basic/gradient.css">
7   </head>
8   <body>
9       <div class="grad"></div>
10  </body>
11  </html>
```

CSS – . Custom

컨트롤러 클래스

```
8     @Slf4j
9     @Controller
10    @RequestMapping(value = "/css")
11    public class NinethController {
```

```
41        @GetMapping("/customBoxTest")
42        public String getCustomBoxTest() {
43            log.info("getCustomBoxTest()");
44
45            return "/csstest/nineth/customBoxTest";
46        }
```

CSS 위치

```
∨ 📄 resources
  ∨ 📁 static
    ∨ 📁 css
      ∨ 📁 basic
          all.css
          backgroundClip.css
          backgroundUrl.css
          box.css
          boxHover.css
          classSelect.css
          customBox.css
          font.css
          gradient.css
          idSelect.css
          inlineBlock.css
          margin.css
          movieFeelShadow.css
          navigationBar.css
          parentChild.css
          percent.css
          shadow.css
          style.css
          tagClassSelect.css
          text-align.css
          transparency.css
```

CSS
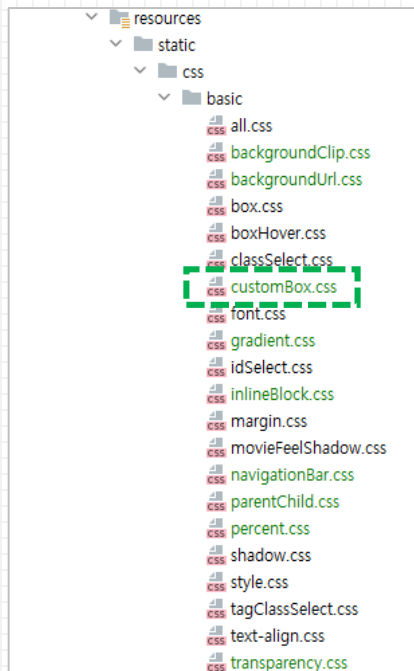
```
1     .box1{
2         width: 400px;
3         height: 100px;
4         background: #ff6a00;
5     }
6     .box2{
7         width: 50%;
8         height: 100px;
9         background: #0094ff;
10    }
11    div {
12        margin: 10px;      /* div간 여백 */
13    }
```

html

```
1     <!DOCTYPE html>
2     <html lang="en">
3     <head>
4         <meta charset="UTF-8">
5         <title>Title</title>
6         <link rel="stylesheet" href="/css/basic/customBox.css">
7     </head>
8     <body>
9         <div class="box1"></div>
10        <div class="box2"></div>
11    </body>
12    </html>
```
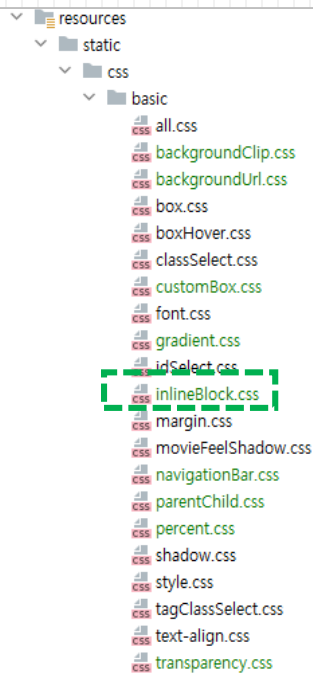
생성된 html

localhost:7777/css/customBoxTest

CSS – Inline / Block

링크 https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main

컨트롤러 클래스

```java
8       @Slf4j
9       @Controller
10      @RequestMapping(value = "/css")
11      public class NinethController {

48          @GetMapping("/inlineBlockTest")
49          public String getInlineBlockTest() {
50              log.info("getInlineBlockTest()");
51
52              return "/csstest/nineth/inlineBlockTest";
53          }
```
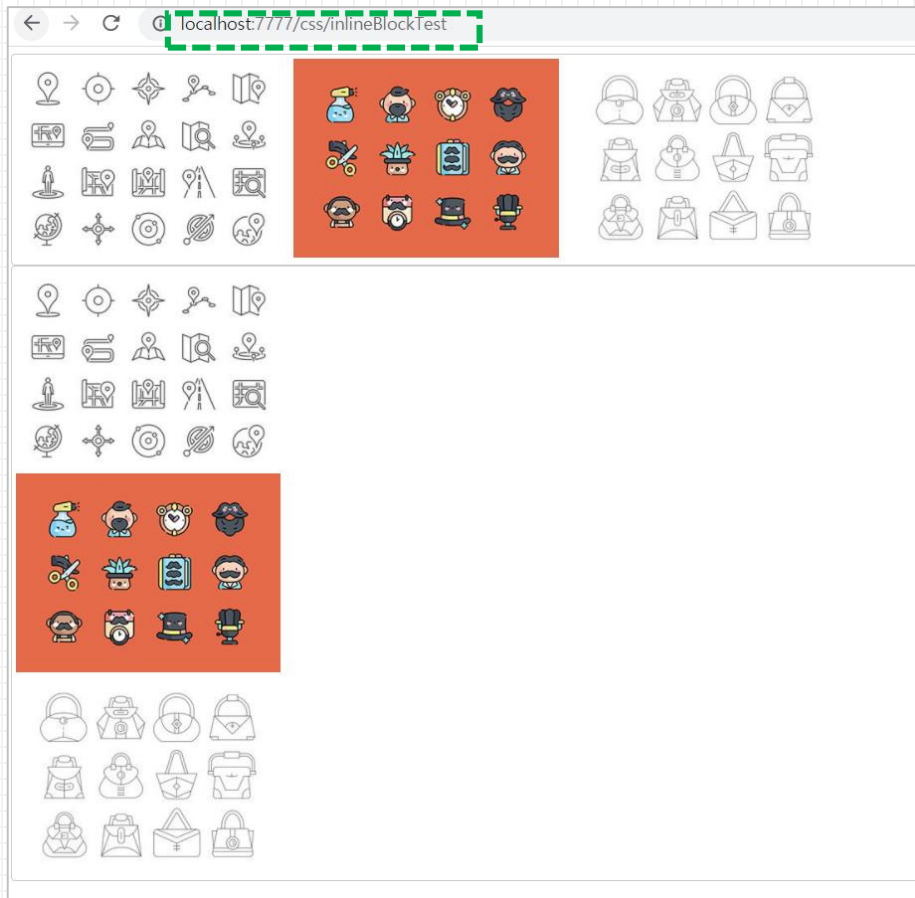
CSS 위치

```
resources
  static
    css
      basic
        all.css
        backgroundClip.css
        backgroundUrl.css
        box.css
        boxHover.css
        classSelect.css
        customBox.css
        font.css
        gradient.css
        idSelect.css
        inlineBlock.css
        margin.css
        movieFeelShadow.css
        navigationBar.css
        parentChild.css
        percent.css
        shadow.css
        style.css
        tagClassSelect.css
        text-align.css
        transparency.css
```

CSS

```css
1   div {
2       border: 1px solid #cccccc;
3       border-radius: 5px;
4   }
5   #inline img {
6       /* 디폴트가 display: inline */
7       /* inline은 무조건 가로로 나오는가? */
8          꽉 차면 아래로 배치된다. */
9       margin: 5px;
10  }
11  #block img {
12      /* block은 무조건 세로로 나옴 */
13      /* display: 보여주는 방식 */
14      display: block;
15      margin: 5px;
16  }
```

html

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <title>Title</title>
6       <link rel="stylesheet" href="/css/basic/inlineBlock.css">
7   </head>
8   <body>
9   <div id="inline">
10      <img src="/img/mark1.jpg">
11      <img src="/img/mark2.jpg">
12      <img src="/img/mark4.jpg">
13  </div>
14  <div id="block">
15      <img src="/img/mark1.jpg">
16      <img src="/img/mark2.jpg">
17      <img src="/img/mark4.jpg">
18  </div>
19  </body>
20  </html>
```

생성된 html

localhost:7777/css/inlineBlockTest

CSS – NavigationBar

링크 https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main

컨트롤러 클래스

```
8    @Slf4j
9    @Controller
10   @RequestMapping(value = "/css")
11   public class NinethController {
```

```
55       @GetMapping("/navigationBarTest")
56       public String getNavigationBarTest() {
57           log.info("getNavigationBarTest()");
58
59           return "/csstest/nineth/navigationBarTest";
60       }
```

CSS 위치

```
> resources
    > static
        > css
            > basic
                all.css
                backgroundClip.css
                backgroundUrl.css
                box.css
                boxHover.css
                classSelect.css
                customBox.css
                font.css
                gradient.css
                idSelect.css
                inlineBlock.css
                margin.css
                movieFeelShadow.css
                navigationBar.css
                parentChild.css
                percent.css
                shadow.css
                style.css
                tagClassSelect.css
                text-align.css
                transparency.css
```

CSS

```
1    nav ul {
2        list-style-type: none;
3    }
4    nav ul li {
5        display: inline;
6        padding: 10px 15px;
7        margin-right: 20px;
8        border-top: 3px solid #222222;
9    }
10   nav ul li:hover {
11       background-color: rgb(196, 196, 196)
12   }
13   nav ul li a {
14       color: black;
15       text-decoration: none;
16   }
```

생성된 html

← → C ⓘ localhost:7777/css/navigationBarTest

게시판   Rust   Kotlin   C

html

```
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <title>Title</title>
6        <link rel="stylesheet" href="/css/basic/navigationBar.css">
7    </head>
8    <body>
9        <nav>
10           <ul>
11               <li><a href="/lists">게시판</a> </li>
12               <li><a href="/test">Rust</a> </li>
13               <li><a href="/tdd">Kotlin</a> </li>
14               <li><a href="/ddd">C</a> </li>
15           </ul>
16       </nav>
17   </body>
18   </html>
```
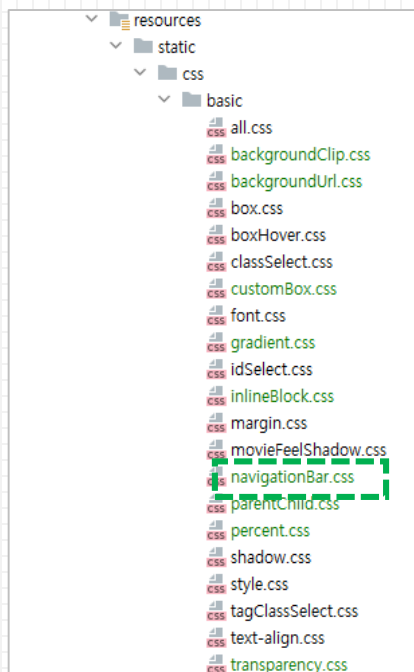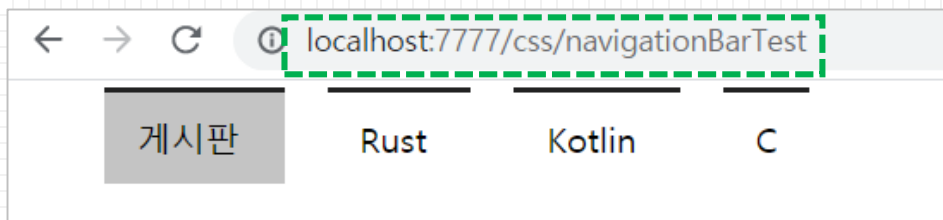
CSS →

링크 https://github.com/limcholong/LectureContents/tree/main/javascript/CholongLim/cholongtest/src/main
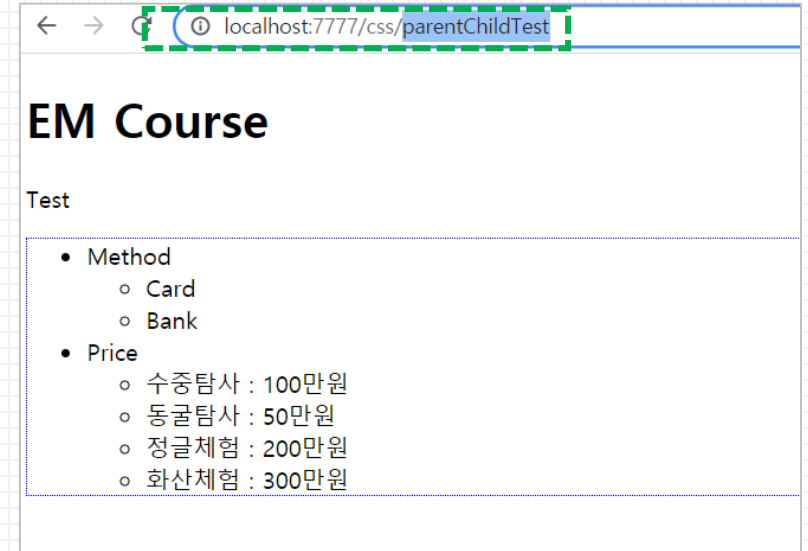
컨트롤러 클래스

```
8      @Slf4j
9      @Controller
10     @RequestMapping(value = "/css")
11     public class NinethController {
```

```
62         @GetMapping("/parentChildTest")
63         public String getParentChildTest() {
64             log.info("getParentChildTest()");
65
66             return "/csstest/nineth/parentChildTest";
67         }
```
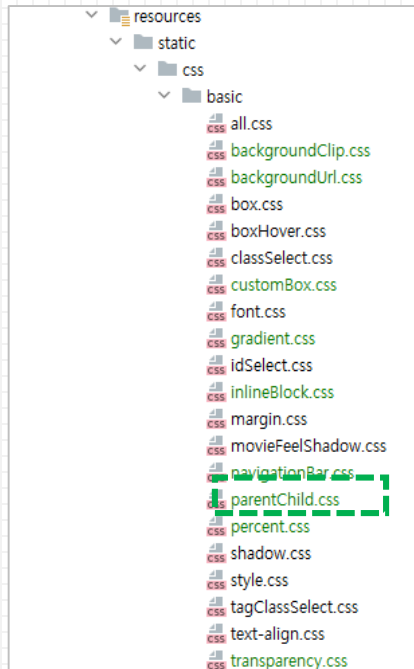
CSS

```
1      #container > ul {
2          /* 부모 > 자식 조건에서만 성립함
3              자식에게만 성립하며 손자 등등은 적용이 안됨
4              container 안에 있는 ul에만 적용되며,
5              container 안에 있는 ul이 아니라면 적용되지 않음 */
6
7          border: 1px dotted blue;
8      }
```

생성된 html

localhost:7777/css/parentChildTest

EM Course

Test

- Method
  - Card
  - Bank
- Price
  - 수중탐사 : 100만원
  - 동굴탐사 : 50만원
  - 정글체험 : 200만원
  - 화산체험 : 300만원

CSS 위치

```
resources
  static
    css
      basic
        all.css
        backgroundClip.css
        backgroundUrl.css
        box.css
        boxHover.css
        classSelect.css
        customBox.css
        font.css
        gradient.css
        idSelect.css
        inlineBlock.css
        margin.css
        movieFeelShadow.css
        navigationBar.css
        parentChild.css
        percent.css
        shadow.css
        style.css
        tagClassSelect.css
        text-align.css
        transparency.css
```

html

```
1      <!DOCTYPE html>
2      <html lang="en">
3      <head>
4          <meta charset="UTF-8">
5          <title>Title</title>
6          <link rel="stylesheet" href="/css/basic/parentChild.css">
7      </head>
8      <body>
9          <div id="container">
10             <header><h1>EM Course</h1></header>
11             <p>Test</p>
12             <ul>
13                 <li>Method
14                     <ul>
15                         <li>Card</li>
16                         <li>Bank</li>
17                     </ul>
18                 </li>
```

html

```
19                 <li>Price
20                     <ul>
21                         <li>수중탐사 : 100만원</li>
22                         <li>동굴탐사 :  50만원</li>
23                         <li>정글체험 : 200만원</li>
24                         <li>화산체험 : 300만원</li>
25                     </ul>
26                 </li>
27             </ul>
28         </div>
29     </body>
30     </html>
```

CSS – Image
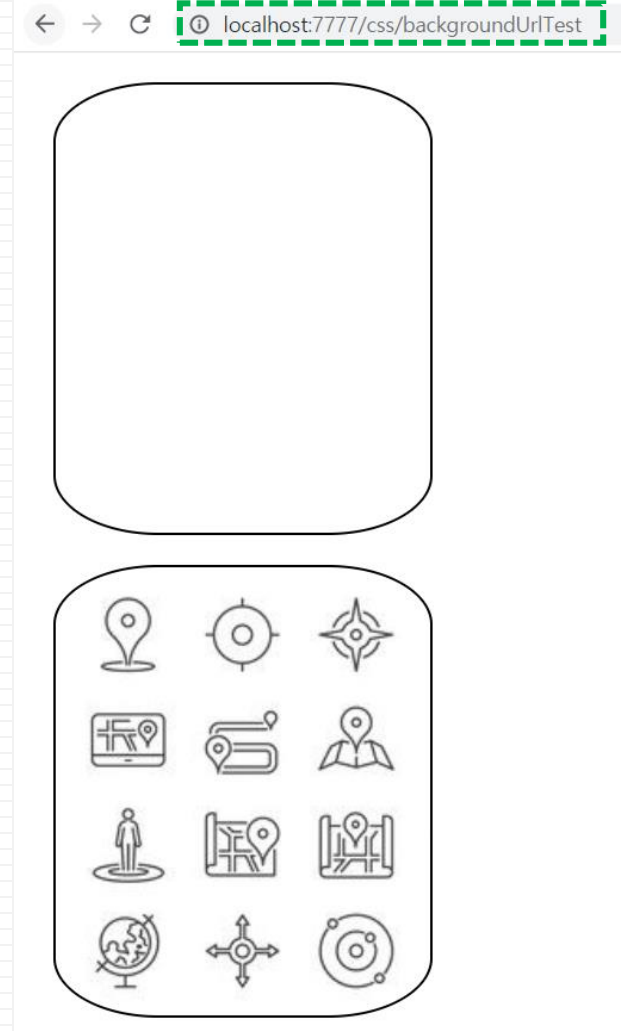
컨트롤러 클래스

```
8    @Slf4j
9    @Controller
10   @RequestMapping(value = "/css")
11   public class NinethController {
```

```
69       @GetMapping("/backgroundUrlTest")
70       public String getBackgroundUrlTest() {
71           log.info("getBackgroundUrlTest()");
72
73           return "/csstest/nineth/backgroundUrlTest";
74       }
```
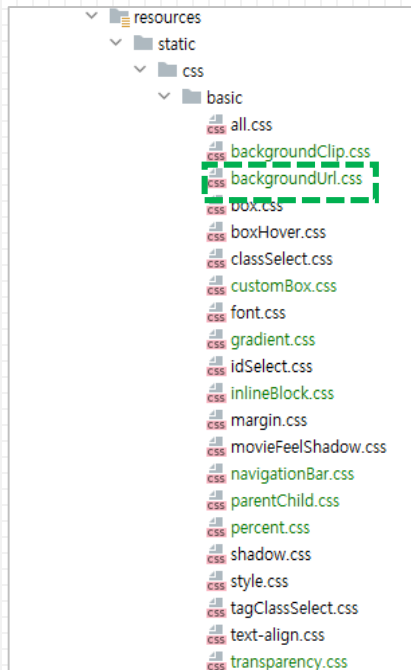
CSS

```
1    div {
2        width: 250px;
3        height: 300px;
4        margin: 20px;
5        display: block;
6        border: 2px solid;
7        border-radius: 70px/40px;        /* 라운딩을 통해 약간 둥글게 */
8    }
9    .bg{
10       background: url(/img/mark1.jpg) no-repeat;
11       background-size: cover;
12   }
```

생성된 html

localhost:7777/css/backgroundUrlTest

CSS 위치

```
resources
  static
    css
      basic
        all.css
        backgroundClip.css
        backgroundUrl.css
        box.css
        boxHover.css
        classSelect.css
        customBox.css
        font.css
        gradient.css
        idSelect.css
        inlineBlock.css
        margin.css
        movieFeelShadow.css
        navigationBar.css
        parentChild.css
        percent.css
        shadow.css
        style.css
        tagClassSelect.css
        text-align.css
        transparency.css
```

html

```
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <title>Title</title>
6        <link rel="stylesheet" href="/css/basic/backgroundUrl.css">
7    </head>
8    <body>
9        <div></div>
10       <div class="bg"></div>
11   </body>
12   </html>
```