

ICT-Start – Session 01

Module 2: Creating static web pages using HTML5 and CSS3

G) CSS Combinators

December 2022

CSS Combinators

CSS Combinators

- Apply a blue color to all the **inside** paragraphs.

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

```
style>
div{
  border: 1px solid black;
}
section{
  border: 1px dashed black;
}
/style>
ead>
dy>
<p>Outside paragraph 1</p>
<div>
  <p>Inside div paragraph 1</p>
</div>
<p>Outside paragraph 2 after div</p>
<div>
  <p>Inside div paragraph 2</p>
  <section>
    <p>Inside section paragraph 2.1</p>
    <div>
      <p>Inside section-div paragraph 2.1.1</p>
    </div>
  </section>
  <p>Inside div paragraph 2.2</p>
</div>
<p>Outside paragraph 3 after div</p>
<div>
  <p>Inside div paragraph 3.1</p>
</div>
<p>Outside paragraph 4 after div</p>
<p>Outside paragraph 5 after p</p>
```

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

CSS Combinat

- Apply a blue color to all the inside paragraphs.
- **Descendent selector**
space
 - `div p {}`

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

```
<style>
  div{
    border: 1px solid black;
  }
  section{
    border: 1px dashed black;
  }
  div p{
    color: blue;
  }
</style>
</head>
<body>
  <p>Outside paragraph 1</p>
  <div>
    <p>Inside div paragraph 1</p>
  </div>
  <p>Outside paragraph 2 after div</p>
  <div>
    <p>Inside div paragraph 2</p>
    <section>
      <p>Inside section paragraph 2.1</p>
      <div>
        <p>Inside section-div paragraph 2.1.1</p>
      </div>
    </section>
    <p>Inside div paragraph 2.2</p>
  </div>
  <p>Outside paragraph 3 after div</p>
  <div>
    <p>Inside div paragraph 3.1</p>
  </div>
  <p>Outside paragraph 4 after div</p>
  <p>Outside paragraph 5 after p</p>
</body>
```

CSS Combinators

- Apply an *italic* font style to all the paragraphs inside a section element.

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

```
<style>
  div{
    border: 1px solid black;
  }
  section{
    border: 1px dashed black;
  }
  div p{
    color: blue;
  }
</style>
</head>
<body>
  <p>Outside paragraph 1</p>
  <div>
    <p>Inside div paragraph 1</p>
  </div>
  <p>Outside paragraph 2 after div</p>
  <div>
    <p>Inside div paragraph 2</p>
    <section>
      <p>Inside section paragraph 2.1</p>
      <div>
        <p>Inside section-div paragraph 2.1.1</p>
      </div>
    </section>
    <p>Inside div paragraph 2.2</p>
  </div>
  <p>Outside paragraph 3 after div</p>
  <div>
    <p>Inside div paragraph 3.1</p>
  </div>
  <p>Outside paragraph 4 after div</p>
  <p>Outside paragraph 5 after p</p>
</body>
```

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

```
<style>
  div{
    border: 1px solid black;
  }
  section{
    border: 1px dashed black;
  }
  div p{
    color: blue;
  }
  section p{
    font-style: italic;
  }
</style>
</head>
<body>
  <p>Outside paragraph 1</p>
  <div>
    <p>Inside div paragraph 1</p>
  </div>
  <p>Outside paragraph 2 after div</p>
  <div>
    <p>Inside div paragraph 2</p>
    <section>
      <p>Inside section paragraph 2.1</p>
      <div>
        <p>Inside section-div paragraph 2.1.1</p>
      </div>
    </section>
    <p>Inside div paragraph 2.2</p>
  </div>
  <p>Outside paragraph 3 after div</p>
  <div>
    <p>Inside div paragraph 3.1</p>
  </div>
  <p>Outside paragraph 4 after div</p>
  <p>Outside paragraph 5 after p</p>
</body>
```

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

CSS Combinators

- Apply a red color to all **outside** paragraphs

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

```
<style>
  div{
    border: 1px solid black;
  }
  section{
    border: 1px dashed black;
  }
  div p{
    color: blue;
  }
  section p{
    font-style: italic;
  }
</style>
</head>
<body>
  <p>Outside paragraph 1</p>
  <div>
    <p>Inside div paragraph 1</p>
  </div>
  <p>Outside paragraph 2 after div</p>
  <div>
    <p>Inside div paragraph 2</p>
    <section>
      <p>Inside section paragraph 2.1</p>
      <div>
        <p>Inside section-div paragraph 2.1.1</p>
      </div>
    </section>
    <p>Inside div paragraph 2.2</p>
  </div>
  <p>Outside paragraph 3 after div</p>
  <div>
    <p>Inside div paragraph 3.1</p>
  </div>
  <p>Outside paragraph 4 after div</p>
  <p>Outside paragraph 5 after p</p>
</body>
```

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p



CSS Combinators

- Apply a red color to all outside paragraphs
- **child selector** >
 - **body** > **p** {}

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

```
<style>
  div{
    border: 1px solid black;
  }
  section{
    border: 1px dashed black;
  }
  div p{
    color: blue;
  }
  section p{
    font-style: italic;
  }
  body > p{
    color: red;
  }
</style>
</head>
<body>
  <p>Outside paragraph 1</p>
  <div>
    <p>Inside div paragraph 1</p>
  </div>
  <p>Outside paragraph 2 after div</p>
  <div>
    <p>Inside div paragraph 2</p>
    <section>
      <p>Inside section paragraph 2.1</p>
      <div>
        <p>Inside section-div paragraph 2.1.1</p>
      </div>
    </section>
    <p>Inside div paragraph 2.2</p>
  </div>
  <p>Outside paragraph 3 after div</p>
  <div>
    <p>Inside div paragraph 3.1</p>
  </div>
  <p>Outside paragraph 4 after div</p>
  <p>Outside paragraph 5 after p</p>
</body>
```

CSS Combinators

- Apply a black color and a font size of 10px to the first paragraph after each `div`-block

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

```
<style>
  div{
    border: 1px solid black;
  }
  section{
    border: 1px dashed black;
  }
  div p{
    color: blue;
  }
  section p{
    font-style: italic;
  }
  body > p{
    color: red;
  }
</style>
</head>
<body>
  <p>Outside paragraph 1</p>
  <div>
    <p>Inside div paragraph 1</p>
  </div>
  <p>Outside paragraph 2 after div</p>
  <div>
    <p>Inside div paragraph 2</p>
    <section>
      <p>Inside section paragraph 2.1</p>
      <div>
        <p>Inside section-div paragraph 2.1.1</p>
      </div>
    </section>
    <p>Inside div paragraph 2.2</p>
  </div>
  <p>Outside paragraph 3 after div</p>
  <div>
    <p>Inside div paragraph 3.1</p>
  </div>
  <p>Outside paragraph 4 after div</p>
  <p>Outside paragraph 5 after p</p>
</body>
```

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p



CSS Combinators

- Apply a black color and a font size of 10px to the **first** paragraph **after** each div-block
- **Adjacent sibling selector +**
 - `div + p {}`

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

```
<style>
  div{
    border: 1px solid black;
  }
  section{
    border: 1px dashed black;
  }
  div p{
    color: blue;
  }
  section p{
    font-style: italic;
  }
  body > p{
    color: red;
  }
  div + p{
    color: black;
    font-size: 10px;
  }
</style>
</head>
<body>
  <p>Outside paragraph 1</p>
  <div>
    <p>Inside div paragraph 1</p>
  </div>
  <p>Outside paragraph 2 after div</p>
  <div>
    <p>Inside div paragraph 2</p>
    <section>
      <p>Inside section paragraph 2.1</p>
      <div>
        <p>Inside section-div paragraph 2.1.1</p>
      </div>
    </section>
    <p>Inside div paragraph 2.2</p>
  </div>
  <p>Outside paragraph 3 after div</p>
  <div>
    <p>Inside div paragraph 3.1</p>
  </div>
  <p>Outside paragraph 4 after div</p>
  <p>Outside paragraph 5 after p</p>
```

CSS Combinators

- Apply a black color and a font size of 10px to **all** the paragraphs directly following each `div`-block

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

```
<style>
  div{
    border: 1px solid black;
  }
  section{
    border: 1px dashed black;
  }
  div p{
    color: blue;
  }
  section p{
    font-style: italic;
  }
  body > p{
    color: red;
  }
  div + p{
    color: black;
    font-size: 10px;
  }
</style>
</head>
<body>
  <p>Outside paragraph 1</p>
  <div>
    <p>Inside div paragraph 1</p>
  </div>
  <p>Outside paragraph 2 after div</p>
  <div>
    <p>Inside div paragraph 2</p>
    <section>
      <p>Inside section paragraph 2.1</p>
      <div>
        <p>Inside section-div paragraph 2.1.1</p>
      </div>
    </section>
    <p>Inside div paragraph 2.2</p>
  </div>
  <p>Outside paragraph 3 after div</p>
  <div>
    <p>Inside div paragraph 3.1</p>
  </div>
  <p>Outside paragraph 4 after div</p>
  <p>Outside paragraph 5 after p</p>
```

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p



CSS Combinators

- Apply a black color and a font size of 10px to **all** the paragraphs directly following each div-block
- **General sibling selector** `~`
 - `div ~ p {}`

Outside paragraph 1

Inside div paragraph 1

Outside paragraph 2 after div

Inside div paragraph 2

Inside section paragraph 2.1

Inside section-div paragraph 2.1.1

Inside div paragraph 2.2

Outside paragraph 3 after div

Inside div paragraph 3.1

Outside paragraph 4 after div

Outside paragraph 5 after p

```
<style>
  div{
    border: 1px solid black;
  }
  section{
    border: 1px dashed black;
  }
  div p{
    color: blue;
  }
  section p{
    font-style: italic;
  }
  body > p{
    color: red;
  }
  div ~ p{
    color: black;
    font-size: 10px;
  }
</style>
/head>
body>
  <p>Outside paragraph 1</p>
  <div>
    <p>Inside div paragraph 1</p>
  </div>
  <p>Outside paragraph 2 after div</p>
  <div>
    <p>Inside div paragraph 2</p>
    <section>
      <p>Inside section paragraph 2.1</p>
      <div>
        <p>Inside section-div paragraph 2.1.1</p>
      </div>
    </section>
    <p>Inside div paragraph 2.2</p>
  </div>
  <p>Outside paragraph 3 after div</p>
  <div>
    <p>Inside div paragraph 3.1</p>
  </div>
  <p>Outside paragraph 4 after div</p>
  <p>Outside paragraph 5 after p</p>
/body>
```

Exercices