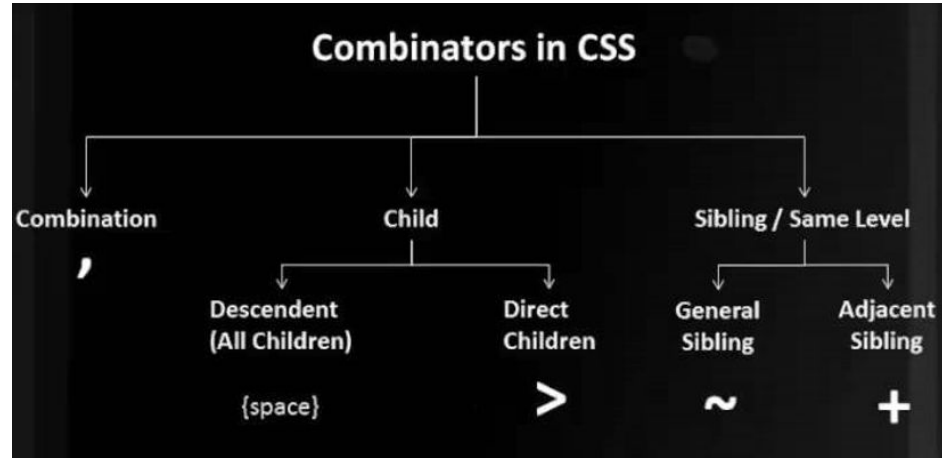


CSS Combinators

By Nitesh Gupta



- Combinator explains the relationship between the selectors(CSS selectors are the patterns used to select the elements for style purpose).
- There can be more than one simple selector or complex selector in a **CSS selector**, and between these selectors, we can include a combinator
- Combinators combine the selectors to provide them a useful relationship and the position of content in the document.
- A CSS Combinator explains the relationship between one or more simple selectors.



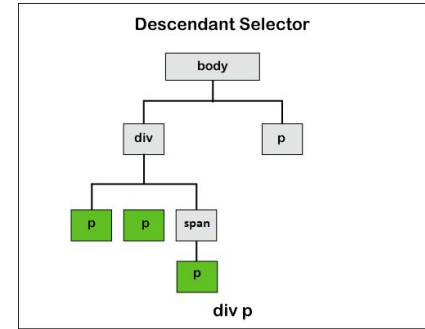
- Descendant Selector
- Child Selector
- Adjacent Sibling Selector
- General Sibling Selector



Selector	Symbol	Description
Descendant	Space	Selects all descendent elements of specific element
Child	>	Selects all child elements of specific element
Adjacent Sibling	+	Selects an element that is immediately following the specific element
General Sibling	~	Selects all next sibling elements following the specific element

Descendant Selector (Space)

- Descendent Selector selects **all descendant** elements of a specific element.
- It can be a **direct** child or **deeper** than five levels, but it will still be referred to as a **descendant**.
- It combines two selectors in which the **first** selector represents an **ancestor** (parent, parent's parent, etc.), and the **second** selector represents **descendants**. The elements matched by the second selector are selected if they have an **ancestor** element that matches the first selector.



Descendant Selector (Space)

Example:

```
<body>
  <p>Let's know the continents of the world</p>
  <div>
    <h2>Continents of the World</h2>
    <p>There are 7 Continents in the world</p>
    <ol>
      <li>Europe</li>
      <li>Asia</li>
      <li>Africa</li>
      <li>Antarctica</li>
      <li>Australia</li>
      <li>North America</li>
      <li>South America</li>
    </ol>
    <p>Asia is the Largest Continent</p>
    <section>
      <p>
        It covers about one-third of the total land.</p>
    </section>
    <p>It is present in the Eastern Hemisphere.</p>
  </div>
  <p>It also consists of World's highest mountain ranges.</p>
  <p>2 countries of this continent is shared with Europe ie. Russia and Turkey.</p>
</body>
```

```
<style>
  div p {
    background-color: yellow;
  }
</style>
```

Combinators

Types of
Combinator

**Descendant
Selector**

Child Selector

Adjacent Sibling
Selector

General Sibling
Selector

Output:

Let's know the continents of the world

Continents of the World

There are 7 Continents in the world

1. Europe
2. Asia
3. Africa
4. Antarctica
5. Australia
6. North America
7. South America

Asia is the Largest Continent

It covers about one-third of the total land.

It is present in the Eastern Hemisphere.

It also consists of World's highest mountain ranges.

2 countries of this continent is shared with Europe ie. Russia and Turkey.

Combinators

Types of
Combinator

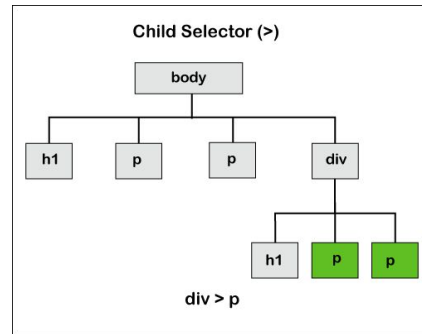
**Descendant
Selector**

Child Selector

Adjacent Sibling
Selector

General Sibling
Selector

- Child Selector selects **all children elements** of a specific element.
- It selects the **direct** descendant of the parent.
- This combinator only matches the elements that are the **immediate child** in the document tree.
- It is **stricter** as compared to the **descendant selector** because it selects the second selector only when the first selector is its parent.



Child Selector (Space)

Example:

```
<body>
  <p>Let's know the continents of the world</p>
  <div>
    <h2>Continents of the World</h2>
    <p>There are 7 Continents in the world</p>
    <ol>
      <li>Europe</li>
      <li>Asia</li>
      <li>Africa</li>
      <li>Antarctica</li>
      <li>Australia</li>
      <li>North America</li>
      <li>South America</li>
    </ol>
    <p>Asia is the Largest Continent</p>
    <section>
      <p>
        It covers about one-third of the total land.</p>
    </section>
    <p>It is present in the Eastern Hemisphere.</p>
  </div>
  <p>It also consists of World's highest mountain ranges.</p>
  <p>2 countries of this continent is shared with Europe ie. Russia and Turkey.</p>
</body>
```

```
<style>
  div>p {
    background-color: yellow;
  }
</style>
```

Combinators

Types of
Combinator

Descendant
Selector

Child Selector

Adjacent Sibling
Selector

General Sibling
Selector

Output:

Let's know the continents of the world

Continents of the World

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Combinators

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Combinator

Descendant
Selector

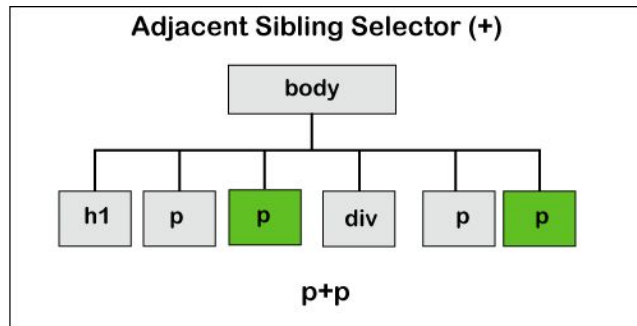
Child Selector

Adjacent Sibling
Selector

General Sibling
Selector

Adjacent Sibling Selector (+)

- Selects an element that is **immediately** following the specific element.
- It matches the second element only when the element immediately follows the first element, and both of them are the children of the **same** parent.



Adjacent Sibling Selector (+)

Example:

```
<body>
  <p>Let's know the continents of the world</p>
  <div>
    <h2>Continents of the World</h2>
    <p>There are 7 Continents in the world</p>
    <ol>
      <li>Europe</li>
      <li>Asia</li>
      <li>Africa</li>
      <li>Antarctica</li>
      <li>Australia</li>
      <li>North America</li>
      <li>South America</li>
    </ol>
    <p>Asia is the Largest Continent</p>
    <section>
      <p>
        It covers about one-third of the total land.</p>
    </section>
    <p>It is present in the Eastern Hemisphere.</p>
  </div>
  <p>It also consists of World's highest mountain ranges.</p>
  <p>2 countries of this continent is shared with Europe ie. Russia and Turkey.</p>
</body>
```

```
<style>
  div+p {
    background-color: yellow;
  }
</style>
```

Combinators

Types of
Combinator

Descendant
Selector

Child Selector

**Adjacent Sibling
Selector**

General Sibling
Selector

Adjacent Sibling Selector (+)

Output:

Let's know the continents of the world

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Combinators

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Descendant
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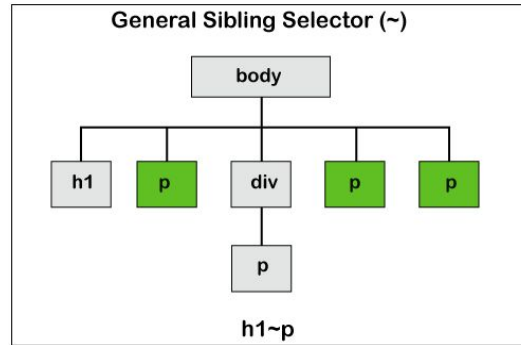
Child Selector

**Adjacent Sibling
Selector**

General Sibling
Selector

General Sibling Selector (~)

- Selects all the elements that follow the elements of first selector, and both of them are the children of the **same** parent.
- It can be used for selecting the **group** of elements that share the **common** parent element.



General Sibling Selector (~)

Example:

```
<body>
  <p>Let's know the continents of the world</p>
  <div>
    <h2>Continents of the World</h2>
    <p>There are 7 Continents in the world</p>
    <ol>
      <li>Europe</li>
      <li>Asia</li>
      <li>Africa</li>
      <li>Antarctica</li>
      <li>Australia</li>
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      <li>South America</li>
    </ol>
    <p>Asia is the Largest Continent</p>
    <section>
      <p>
        It covers about one-third of the total land.</p>
    </section>
    <p>It is present in the Eastern Hemisphere.</p>
  </div>
  <p>It also consists of World's highest mountain ranges.</p>
  <p>2 countries of this continent is shared with Europe ie. Russia and Turkey.</p>
</body>
```

```
<style>
  div~p {
    background-color: yellow;
  }
</style>
```

Combinators

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**General Sibling
Selector**

Output:

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Selector**

Example

Child selector Combinator used in our LinkedIn project

```
.post_item_owner > a:hover{  
    color: blue;  
}
```

```
.header_left > img{  
    object-fit: contain;  
    height: 40px;  
}
```

```
.post_item_comment_info > span{  
    line-height: 2;  
    margin-left: 10px;  
    font-size: 15px;  
}
```