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# CSS Combinators

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# Combinators in Selectors

- A combinator is something that explains the relationship between the selectors.
- A CSS selector can contain more than one simple selector. Between the simple selectors, we can include a combinator.

## 4 Types of combinators:

- Descendant selector ( space )
- Child selector ( > ).
- Adjacent sibling selector ( + )
- General sibling selector ( ~ )

# Descendant selector ( )

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

<html>
    <div>
        <p>Para 1</p>

        <span>
            <p>Para 2</p>
        </span>

        <p>Para 3</p>
    </div>

    <p>outer Para</p>
</html>
```

Descendant selectors  
selects all elements  
inside <div> elements

## Output:

Para 1

Para 2

Para 3

outer Para

# Child selector ( > )

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

<html>
    <div>

        <p>Para 1</p>

        <span>
            <p>Para 2</p>
        </span>

        <p>Para 3</p>
    </div>

    <p>outer Para</p>
</html>
```

Child selector selects all elements where the parent is a `<div>` element

## Output:

Para 1

Para 2

Para 3

outer Para

# Adjacent sibling selector ( + )

```
<style>
```

```
div + p {  
  background-color: aqua;  
}
```

```
</style>
```

```
<html>  
  <div>
```

```
    <p>Para 1</p>
```

```
  <span>
```

```
    <p>Para 2</p>
```

```
  </span>
```

```
    <p>Para 3</p>
```

```
  </div>
```

```
    <p>outer Para</p>
```

```
    <p>outer Para</p>
```

```
</html>
```

Adjacent sibling selector selects the first element that are placed immediately after <div>

## Output:

Para 1

Para 2

Para 3

outer Para

outer Para

# General sibling selector ( ~ )

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

<html>
<p>Paragraph 1.</p>
<div>
  <p>Paragraph 2.</p>
</div>
<p>Paragraph 3.</p>
<p>Paragraph 4.</p>
<span>
  <p>Paragraph 6.</p>
</span>

</html>
```

General sibling selector selects all elements that are placed after <div> element

## Output:

Paragraph 1.

Paragraph 2.

Paragraph 3.

Paragraph 4.

Paragraph 6.