

1_simple selectors and combinators

html

```
<div>
  <h1>Hello, World!</h1>
  <p>This is a paragraph.</p>
  <p class="highlight">This is another paragraph.</p>
</div>
```

CSS

```
/* Selects all <p> elements */
p {
  color: blue;
}

/* Selects the <p> element with the class "highlight" */
p.highlight {
  background-color: yellow;
}

/* Selects the <h1> element inside a <div> element */
div h1 {
  font-size: 24px;
}

/* Selects all <p> elements that are direct children of a
ment */
div > p {
  font-style: italic;
}

/* Selects the first <p> element inside a <div> element */
div p:first-child {
  font-weight: bold;
}

/* Selects the last <p> element inside a <div> element */
div p:last-child {
  text-decoration: underline;
}
```

2_ Attribute selectors

Html:

```
html

<ul>
  <li data-category="fruit">Apple</li>
  <li data-category="vegetable">Carrot</li>
  <li data-category="fruit">Orange</li>
  <li data-category="vegetable">Broccoli</li>
</ul>
```

Css:

```
/* Selects all <li> elements with the "data-category" attribute */
li[data-category] {
  color: blue;
}

/* Selects the <li> elements with the "data-category" attribute equal to "fruit" */
li[data-category="fruit"] {
  font-weight: bold;
}

/* Selects the <li> elements with the "data-category" attribute containing "egeta" */
li[data-category*="egeta"] {
  text-decoration: underline;
}

/* Selects the <li> elements with the "data-category" attribute starting with "veg" */
li[data-category^="veg"] {
  background-color: yellow;
}

/* Selects the <li> elements with the "data-category" attribute ending with "ble" */
li[data-category$="ble"] {
  font-style: italic;
}
```

3_ Pseudo-class selectors

html

```
<ul>
  <li>Apple</li>
  <li>Orange</li>
  <li>Banana</li>
  <li>Pineapple</li>
</ul>
```

CSS:

```
/* Selects the first <li> element */
li:first-child {
  color: blue;
}

/* Selects the last <li> element */
li:last-child {
  color: red;
}

/* Selects every even-numbered <li> element */
li:nth-child(even) {
  background-color: yellow;
}

/* Selects the <li> element when the mouse hovers over it */
li:hover {
  font-weight: bold;
}

/* Selects the <li> element when it's clicked */
li:active {
  text-decoration: underline;
}

/* Selects the <li> elements that have a preceding sibling */
li + li {
  margin-top: 10px;
}
```

4_ Pseudo-element selectorss

html

```
<p>This is a paragraph.</p>
```

CSS

```
/* Adds content before the <p> element */
p::before {
  content: "Before: ";
  font-weight: bold;
}

/* Adds content after the <p> element */
p::after {
  content: " After";
  text-decoration: underline;
}

/* Selects the first letter of the <p> element */
p::first-letter {
  font-size: 24px;
  color: red;
}

/* Selects the first line of the <p> element */
p::first-line {
  font-style: italic;
}
```