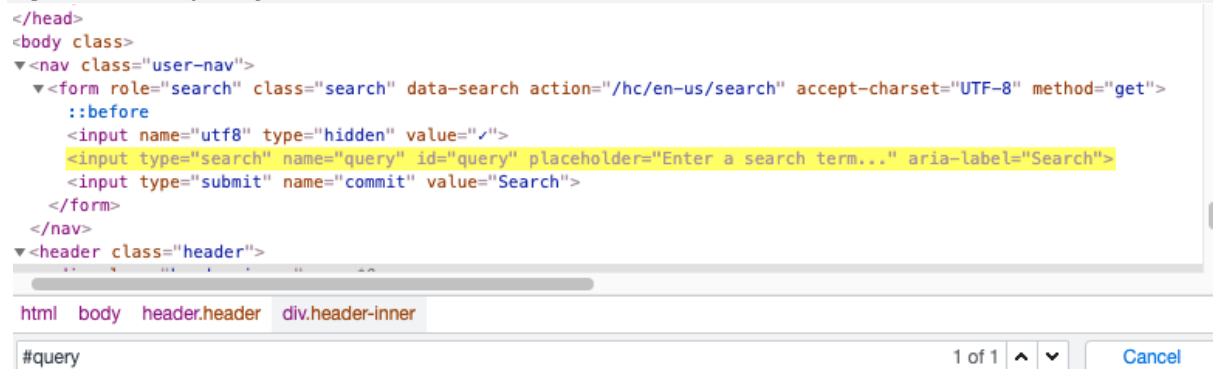


# CSS Selectors:

## 1. Using ID CSS Selector

*This is the most common way of locating elements, since IDs are supposed to be unique for each element. It can be used with hash (#) sign.*

**Syntax:** #query



## 2. Using Class CSS Selector

*Locating by CSS Selector using a class name is similar to using an ID, but in this case, a dot (.) is used instead of a hash sign.*

**Syntax:** .header-inner



### 3. Using Tag and ID/Class CSS Selector

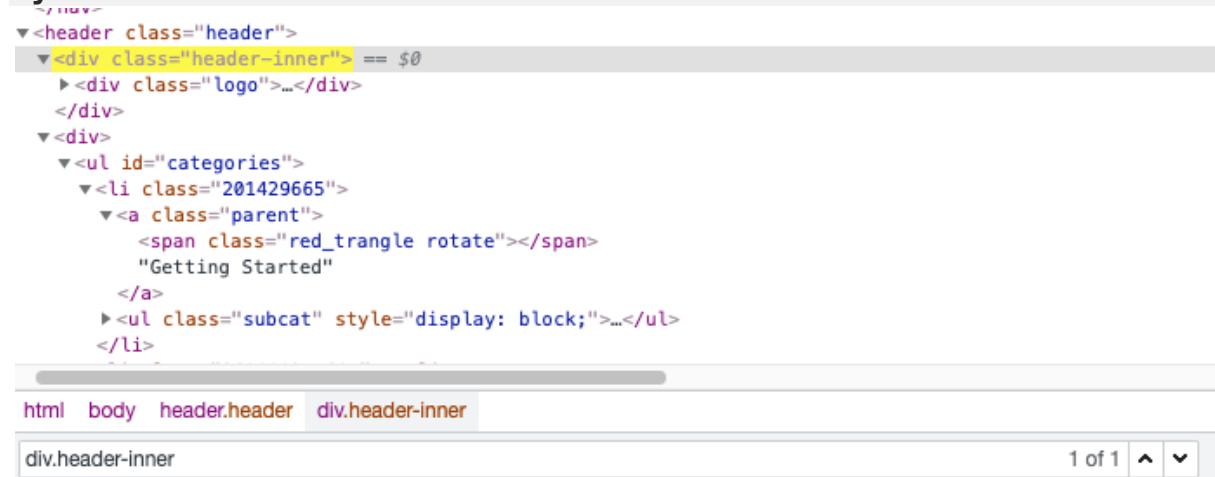
You can use “tag#ID”.

**Syntax:** input#query



You can use “tag.class” as well.

**Syntax:** div.header-inner



### 4. Using Tag & Attribute & Value

*In my opinion, this one is the most used and most practical one. If there is a custom attribute available in the project such as **data-test** or **data-qa-values**, you could handle almost all locator issues. If there isn't any, please ask your developers to add those data attributes, which are lifesavers. One good example can be seen below with many data attributes.*

```

data-qa-identifier="MainNav-Entries"> flex
  <ul class="flex justify-center lg:justify-start leading-4" data-qa-identifier="MainNav-GenderSelection"> flex
    <li class="ml-6 first:ml-0" data-qa-identifier="MainNav-GenderSelectionLink">...
    </li>
    <li class="ml-6 first:ml-0" data-qa-identifier="MainNav-GenderSelectionLink">
      <a role="button" class href="/herren/"> == $0
        <p class="jsx-791641694 navtext-sm nav-item font-light">Herren</p>
        <p class="jsx-791641694 navtext-sm nav-item w-full h-0 overflow-hidden invisible font-bold">Herren</p>
      </a>
    </li>
  </ul>
  <ul data-qa-identifier="MegaMenuBar" class="jsx-1739437885 flex mt-2 lg:mt-0 pt-2 lg:pt-0 lg:ml-6 lg:pl-6 border-t lg:border-t-0 leading-4 list-border-color lg:relative">...</ul> flex
  <div data-qa-identifier="MegaMenuBar-MegaMenu" class="jsx-1739437885">...</div>
</nav>
<a role="button" class="order-2 xl:order-1 ml-4 sm:ml-6 xl:m-0 jsx-4090270469 logo-wrapper" data-qa-identifier="StoreLogo" data-qa-values="stylebop" href="/damen/">...</a>
<nav class="jsx-308443480 order-3 ml-auto xl:m-0">...</nav>
</div>
</header>

```

It could be used as `tag[attribute='value']`.

**Syntax:** `input[type='search']`

The screenshot shows a web browser's developer tools. The DOM tree on the left highlights the search input field. The console on the right shows the value of the search input, which is "Getting Started".

```

html body header.header div ul#categories li.\32 01429665 a.parent
input[type='search']

```

We can also extend this syntax using more than one attribute

**Syntax:** `input[type='search'][name='query']`

```
▼<body class>
  ▼<nav class="user-nav">
    ▼<form role="search" class="search" data-search action="/hc/en-us/search" accept-charset="UTF-8" method="get">
      ::before
      <input name="utf8" type="hidden" value="✓">
      <input type="search" name="query" id="query" placeholder="Enter a search term..." aria-label="Search">
      <input type="submit" name="commit" value="Search">
    </form>
  </nav>
  ▼<header class="header">
    ▼<div class="header-inner">
      ▶<div class="logo">...</div>
    </div>
  </div>
  ▼<div>

html  body  header.header  div  ul#categories  li.\32 01429665  a.parent
input[type='search'][name='query'] 1 of 1 ^ v Cancel
```

## 5. Absolute Path CSS Selector

*CSS absolute paths refer to the very specific location of the element considering its complete hierarchy in the DOM. Even though it is not a preferred way to use it, in case of need it can be used as follows.*

**Syntax:** body>nav>form

```
</head>
▼<body class>
  ▼<nav class="user-nav">
    ▼<form role="search" class="search" data-search action="/hc/en-us/search" accept-charset="UTF-8" method="get">
      ::before
      <input name="utf8" type="hidden" value="✓">
      <input type="search" name="query" id="query" placeholder="Enter a search term..." aria-label="Search">
      <input type="submit" name="commit" value="Search">
    </form>
  </nav>
  ▼<header class="header">

html  body  header.header  div  ul#categories  li.\32 01429665  a.parent
body>nav>form 1 of 1 ^ v Cancel
```

*With relative path, we can also locate an element directly, irrespective of its location in the DOM. Assuming that it is the only one, or it is the first element in the DOM. In this case I want to select first<input>.*

**Syntax:** input

```
~/netau/
▼<body class>
  ▼<nav class="user-nav">
    ▼<form role="search" class="search" data-search action="/hc/en-us/search" accept-
      ::before
        <input name="utf8" type="hidden" value="✓">
        <input type="search" name="query" id="query" placeholder="Enter a search term.
        <input type="submit" name="commit" value="Search">
      </form>
    </nav>
  ▼<header class="header">
    ▶<div class="header-inner">...</div>
  ▼<div>

html body header.header div ul#categories li.\32 01429665 a.parent
input
```

## 6. Using Non-Absolute Path CSS Selector

You should use **white space** between tags to locate the element. Use “.” for class and “#” for id.

**Syntax:** .row .large .flash

```
▶<head>...</head>
..▼<body> == $0
  <div style="display: none;"></div>
  ▼<div class="row">
    ::before
    ▼<div id="flash-messages" class="large-12 columns">
      ▶<div data-alert id="flash" class="flash success">...</div>
    </div>
    ::after
  </div>
  ▼<div class="row">
    ::before
html.no-js body
.row .large-12 .flash 1 of 1
```

## 7. Class Chaining

It is most common to have **more class names** for an HTML element.

You shouldn't use **white space** between classes to locate the element. It can also be combined with ID attribute, or with tag name if it is required.

**Syntax:** .flash.success

```
<div style="display: none;"></div>
▼ <div class="row">
  ::before
  ▼ <div id="flash-messages" class="large-12 columns">
    ► <div data-alert id="flash" class="flash success">...</div>
  </div>
  ::after
</div>
▼ <div class="row">
  ::before
  ► <a href="https://github.com/tourdedave/the-internet">...</a>
html.no-js body
.flash.success 1 of 1 ^ v
```

## 8. Using Containing Text of an Attribute

You can use `tag[attribute*='containing text']` syntax.

**Syntax:** `aside[class*='article']`

```
</article>
► <aside class="article-sidebar side-column">...</aside>
  ::after
</div>
</main>
▼ <footer class="footer">
  ► <div class="footer-inner">...</div>
</footer>
html body header.header div ul#categories li.\32 01429665 a.parent
aside[class*='article'] 1 of 1 ^ v
```

## 9. Using Starting Text of an Attribute

You can use `tag[attribute^='starting text']` syntax.

**Syntax:** `aside[class^='article']`

```
</article>
► <aside class="article-sidebar side-column">...</aside>
  ::after
</div>
</main>
▼ <footer class="footer">
  ► <div class="footer-inner">...</div>
</footer>
html body header.header div ul#categories li.\32 01429665 a.parent
aside[class^='article'] 1 of 1 ^ v
```

## 10. Using Ending Text of an Attribute

You can use `tag[attribute$='ending text']` syntax.

**Syntax:** `div[class$='articles']`



## 11. Using Comma Operator between CSS Locators

You can use “,” **operator** between two CSS locator statements to implement OR operation.

**Syntax:** `div[class='footer_articles'],div[class='clear']`



## 12. Using first-of-type CSS Selector

You can use “**Tag:first-of-type**”. It will select the first tag element.

**Syntax:** `ul#categories>li:first-of-type`



## 13. Using last-of-type CSS Selector

You can use “**Tag:last-of-type**”. It will select the last tag element.

**Syntax:** `ul#categories>li:last-of-type`



## 14. Using tag:nth-of-type(n) CSS Selector

You can use “**tag:nth-of-type(n)**”. It will select the *nth* tag element of the list.

**Syntax:** `ul#categories>li:nth-of-type(5)`



**Syntax:** `ul#categories>li:nth-of-type(n)` will select all elements.

## 15. Selecting sibling of an element by CSS Selector



There are some cases that we can select one element, then we can reach its siblings. In this case, this approach is very useful.

You can use “+” **operator** to reach sibling element.

**Syntax:** `div.prev_next_buttons+div`

```
▼<div class="footer_articles">
... ▼<div class="prev_next_buttons"> == $0
    <a class="previous" href="https://guide.blazemeter.com/hc/en-us">Previous</a>
    <a href="https://guide.blazemeter.com/hc/en-us/articles/207420325-Getting-Started-Getting
      class="next">Next</a>
    </div>
    <div class="clear"></div>
  </div>
</div>
</article>
▶<aside class="article-sidebar side-column">...</aside>
::after
html body main div.clearfix article.main-column div.article-meta div.footer_articles div.prev_next_buttons
div.prev_next_buttons+div 1 of 1 ^ v
```

## 16. Using NOT operator CSS Selector

This approach is beneficial, when we use one of the selector strategy to select the element/elements, with excluding the others by NOT operator.

**Syntax:** `div.large-12.columns:not(#content)`

```
▼<div class="row">
  ::before
  ▼<div id="flash-messages" class="large-12 columns">
    ▶<div data-alert id="flash" class="flash success">...</div>
  </div>
  ::after
</div>
▼<div class="row">
  ::before
  ▶<a href="https://github.com/tourdedave/the-internet">...</a>
... ▼<div id="content" class="large-12 columns"> == $0
  ▶<div class="example">...</div>
</div>
::after
html.no-js body div.row div#content.large-12.columns
div.large-12.columns:not(#content) 1 of 1 ^ v
```

Above one is just to show an example, otherwise it is wise to select it with ID attribute. 😊

One more example can be seen below. This time I want to reach all the elements having classes “a-section”, and “a-spacing-none”, which gives 80 results, but I don’t want to reach the elements having “fluid-image-container” class. Then using NOT operator would be very useful.

**Syntax:** `div.a-section.a-spacing-none:not(.fluid-image-container)`

```

<!-- sp:feature:host-atf -->
▼ <div id="pageContent" class="a-section a-spacing-none" role="main">
  <a name="top"></a>
  ▶ <style type="text/css">...</style>
  ▶ <div class="off-screen">...</div>
  ▼ <div cel_widget_id="desktop-hero-order" id="desktop-banner" class="celwidget" data-
data-cel-widget="desktop-hero-order">
    ▼ <div id="gw-desktop-herotator" data-autorotation-delay="5000" class="a-section a-
erotator-ready">
      ▶ <div data-a-carousel-options="{\"set_size\":6,\"minimum_gutter_width\":0,\"maintain_
e\":\"gateway-desktop-layout.herotator\",\"circular\":false,\"animation_speed\":6000}" <
transition-strategy="slideCircular" data-a-class="desktop" class="a-begin a-carou
arousel-transition-slideCircular gw-desktop-herotator a-carousel-initialized">...</
... #gw-layout.a-section.a-spacing-none.aok-relative div#gw-card-layout.a-section.a-spacing-none.gw-c
.a-section.a-spacing-none:not(.fluid-image-container) 1 of 60

```

## 17. Using tag:nth-child(n) CSS Selector in Selenium

You can use “tag:nth-child(n)”. It will select the nth child.

**Syntax:** `div#navbar>:nth-child(2)`

```

▼ <div id="navbar" cel_widget_id="Navigation-desktop-navbar" role="navigation" class="r
-a1ly-t1 bold-focus-hover layout2 nav-flex layout3 layout3-alt nav-packard-glow hambur
data-csa-c-id="bonlls-rmj686-amswdd-1vu649" data-cel-widget="Navigation-desktop-navbar"
  ▶ <div id="nav-belt">...</div> flex
  ▶ <div id="nav-flyout-iss-anchor">...</div> flex
  ▶ <div id="nav-flyout-anchor">...</div> flex
  ▶ <div id="nav-main" class="nav-sprite">...</div> flex
    <div id="nav-subnav-toaster"></div> flex
    <div id="nav-progressive-subnav"></div>
  </div>
</header>
... #gw-layout.a-section.a-spacing-none.aok-relative div#gw-card-layout.a-section.a-spacing-none.gw-c
div#navbar>:nth-child(2) 1 of 1

```