

# SELECT DROPDOWN

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Playwright provides methods to interact with select dropdown elements using the value, label, or index of the options.

```
const browser = await chromium.launch();
const page = await browser.newPage();
await page.goto('https://example.com');

// Select by value
await page.selectOption('select#yourSelectId', { value: 'optionValue' });

// Select by label
await page.selectOption('select#yourSelectId', { label: 'Option Label' });


// Select by index
await page.selectOption('select#yourSelectId', { index: 0 });

await browser.close();
```

# AUTO WAITING

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Playwright's auto-waiting mechanism automatically waits for elements to be in a state where they can be interacted with before proceeding with commands like click, fill, etc. Here's how it works:



1. **Visibility:** Playwright waits for the element to become visible. This means the element must not have `display: none` or `visibility: hidden` CSS properties.
2. **Stability:** The element must not be moving at the time of interaction.
3. **Enabled State:** The element is enabled and not disabled via the `disabled` attribute.
4. **Editable:** If the interaction involves text input, the element must be editable.
5. **Not Obstructed:** The element is not covered by any other element, which would prevent a real user from clicking on it.

Playwright handles these automatically in most cases when performing actions:

```
// Automatically waits for the button to be clickable before clicking
await page.click('button#submit');

// Automatically waits for the input to be visible and ready for input
await page.fill('input#name', 'Babu');
```

## WAIT FUNCTIONS

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Different `waitFor` functions are used to explicitly wait for various conditions or events:

### `waitForSelector`

Waits for an element to appear in the DOM or to be hidden.



```
// Wait for an element to appear in the DOM
await page.waitForSelector('div#loader', { state: 'attached' });

// Wait for an element to be removed or hidden
await page.waitForSelector('div#loader', { state: 'detached' });
```

### ``waitForFunction``

Executes JavaScript in the page context and waits for the function to return true.

```
// Wait for a JavaScript condition to become true
await page.waitForFunction(() => window.status === 'ready');
```

### ``waitForTimeout``

Delays execution for a specified number of milliseconds. Useful for operations where a specific time delay is required but should be used sparingly as it can lead to fragile tests.

```
// Wait for 3 seconds
await page.waitForTimeout(3000);
```

### ``waitForLoadState``

Waits for the page to reach a specified load state (load, domcontentloaded, networkidle).

```
// Wait for the network to become idle
await page.waitForLoadState('networkidle');
```

## *`waitForResponse` and `waitForRequest`*

Waits for a network request or response that matches a predicate.

```
// Wait for a specific API response
await page.waitForResponse(response =>
  response.url() === 'https://api.leaftaps.com' &&
  response.status() === 200
);

// Wait for a specific API request
await page.waitForRequest(request =>
  request.url() === 'https://api.leaftaps.com/send' &&
  request.method() === 'POST'
);
```