Drag and Drop

**1. Using the dragTo() Method**

The dragTo() method is a straightforward way to perform drag-and-drop operations in Playwright.

**Example:**

javascript

Copy code

const sourceLocator = page.locator('div#source'); // Element to drag

const targetLocator = page.locator('div#target'); // Drop target

await sourceLocator.dragTo(targetLocator); // Perform drag-and-drop

This method directly drags the source element to the target element without needing to simulate mouse events.

**2. Dragging Manually Using Mouse Events**

For more granular control over the drag-and-drop process, you can simulate mouse events to move an element manually.

**Example:**

javascript

Copy code

const sourceLocator = page.locator('div#source'); // Element to drag

const targetLocator = page.locator('div#target'); // Drop target

// Get the bounding boxes of the source and target elements

const sourceBox = await sourceLocator.boundingBox();

const targetBox = await targetLocator.boundingBox();

// Start dragging by moving to the source element and pressing down the mouse button

await page.mouse.move(sourceBox.x + sourceBox.width / 2, sourceBox.y + sourceBox.height / 2); // Move to source

await page.mouse.down(); // Press mouse button down

// Move to the target element and release the mouse button

await page.mouse.move(targetBox.x + targetBox.width / 2, targetBox.y + targetBox.height / 2); // Move to target

await page.mouse.up(); // Release mouse button

This method allows you to specify the exact points to which the mouse moves, providing more control over the drag-and-drop action.

**3. Using Keyboard Shortcuts for Drag-and-Drop**

If your application allows keyboard shortcuts during drag-and-drop actions, you can simulate these interactions alongside the mouse movements.

**Example:**

javascript

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const sourceLocator = page.locator('div#source'); // Source element

const targetLocator = page.locator('div#target'); // Target drop zone

// Click on the source to initiate the drag

await sourceLocator.click(); // Click on the source to focus

// Simulate holding down a keyboard key (e.g., Ctrl) while dragging

await page.keyboard.down('Control'); // Hold down Ctrl (or any other modifier key)

// Use the dragTo method for dragging while the key is held down

await sourceLocator.dragTo(targetLocator); // Drag using `dragTo()`

// Release the keyboard key after dropping

await page.keyboard.up('Control'); // Release the Ctrl key