# 📘 Playwright Wait Strategies with HTML Examples

## ✅ 1. wait\_for\_function('window.dataLoaded === true')

🔍 Purpose:  
Wait until a JavaScript variable becomes true — useful when data is loaded in the background by JavaScript.

🧩 Example HTML + JS:

<!DOCTYPE html>  
<html>  
<head>  
 <title>Loading Example</title>  
 <script>  
 window.dataLoaded = false;  
 setTimeout(() => {  
 document.getElementById("product").innerText = "Laptop Price: ₹45,000";  
 window.dataLoaded = true;  
 }, 3000);  
 </script>  
</head>  
<body>  
 <h1 id="product">Loading product...</h1>  
</body>  
</html>

🧠 Playwright Code:

await page.wait\_for\_function('window.dataLoaded === true')  
price = await page.text\_content("#product")

## ✅ 2. wait\_for\_selector('#loading-spinner', state='hidden')

🔍 Purpose:  
Wait until a loading spinner disappears (hidden or removed from the DOM).

🧩 Example HTML + JS:

<!DOCTYPE html>  
<html>  
<head>  
 <title>Spinner Example</title>  
 <script>  
 setTimeout(() => {  
 document.getElementById("loading-spinner").style.display = "none";  
 document.getElementById("main-content").style.display = "block";  
 }, 3000);  
 </script>  
</head>  
<body>  
 <div id="loading-spinner">Loading...</div>  
 <div id="main-content" style="display:none;">Product Details Here</div>  
</body>  
</html>

🧠 Playwright Code:

await page.wait\_for\_selector('#loading-spinner', state='hidden')

## ✅ 3. JavaScript-Based Selectors in wait\_for\_function()

Table of examples:

|  |  |
| --- | --- |
| JavaScript Expression | Use Case |
| 'window.dataLoaded === true' | Page sets a global flag after data loads |
| 'document.querySelector("#product") !== null' | Wait until a DOM element appears |
| 'document.readyState === "complete"' | Wait until page is fully loaded |
| 'window.location.href.includes("/dashboard")' | Wait until page navigates to a specific path |

## 📌 When to Use Each

Comparison table:

|  |  |
| --- | --- |
| Strategy | Use When |
| wait\_for\_function('window.var === true') | JS controls page readiness |
| wait\_for\_selector(..., state='hidden') | Waiting for loaders/spinners to disappear |
| wait\_for\_selector('#selector') | Waiting for elements to appear |
| wait\_for\_timeout(ms) | Known wait time, less reliable |
| wait\_for\_function('document.querySelector(...)') | Use for JS conditions or complex checks |