

# BROWSER TESTS & CROSS BROWSER TESTING

# WHAT TO EXPECT



- 1 Browser Tests
- 2 Why Browser Tests
- 3 Types of Browser Tests
- 4 Cross Browser Testing
- 5 Cross Browser Testing Tools

# Introduction to Browser Tests

**Definition:** Browser testing plays a pivotal role in the realm of software testing.

**Purpose:** It guarantees the proper functioning of your web application across a variety of web browsers.

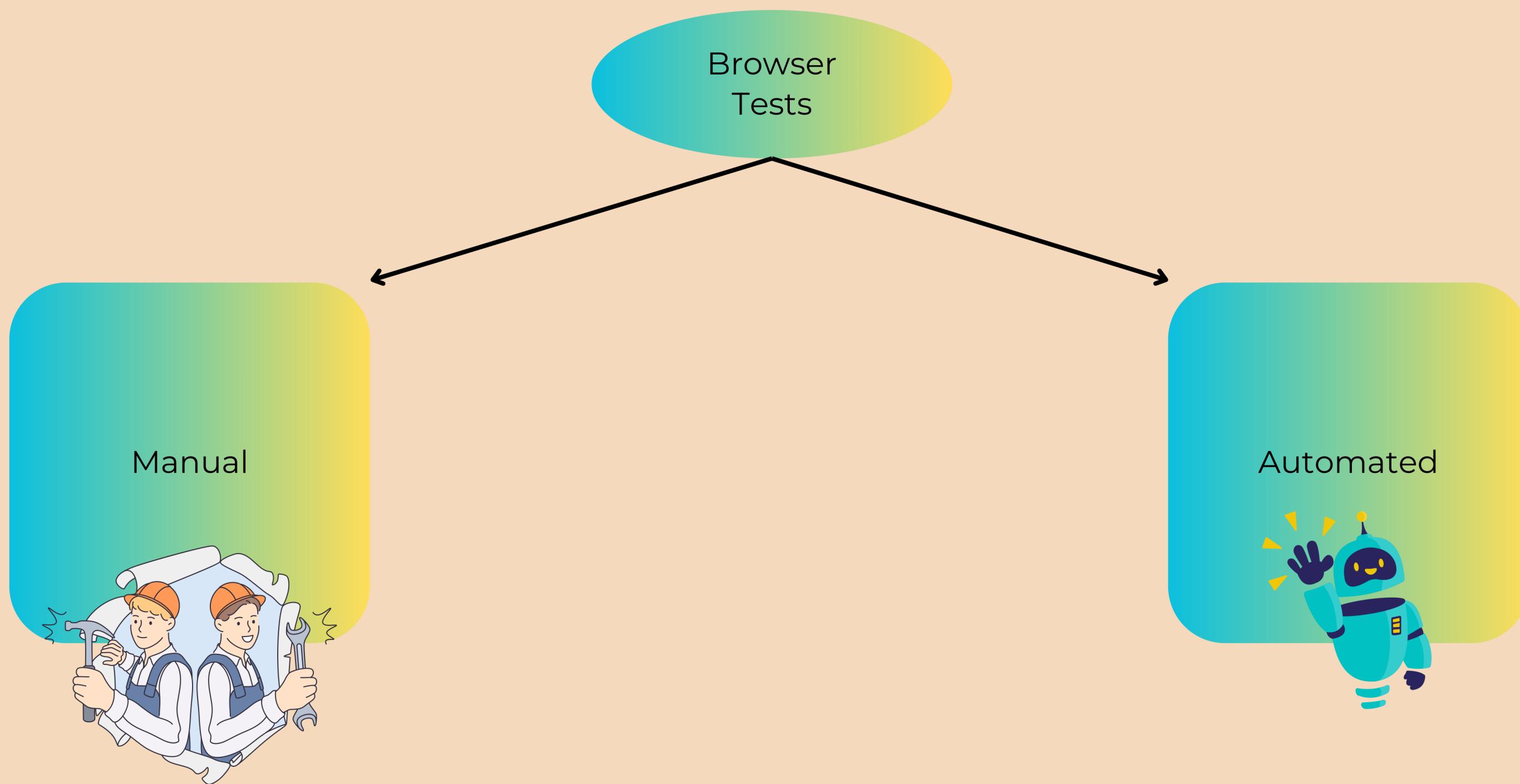
**Benefits:** This leads to enhanced user experiences, wider audience accessibility, and heightened compatibility.

# Why Browser Tests?

- Highlight the diversity of web browsers: Chrome, Firefox, Edge, Safari, etc.
- Mention browser-specific behaviors and rendering differences.
- Emphasize the need to deliver a consistent user experience.



# Types of Browser Tests



# A different perspective

<https://caniuse.com/>

# A different perspective

<https://www.youtube.com/watch?app=desktop&v=3N8Pfv-sOmE>

# Cross Browser Testing

Cross-browser testing validates a website's performance and appearance across multiple web browsers to ensure consistency and compatibility.



# why Cross Browser Testing ?

- 1. User Experience Consistency:** Cross-browser testing ensures that users have a consistent and reliable experience, regardless of the browser they use.
- 2. Broad Audience Reach:** It allows websites and applications to reach a wider audience by accommodating users on various platforms and devices.
- 3. Bug Identification:** Helps in identifying and resolving browser-specific bugs, enhancing the overall quality of the software.
- 4. Compliance and Accessibility:** Ensures compliance with web standards and accessibility guidelines, making the site usable for all, including those with disabilities.
- 5. Reputation and Customer Satisfaction:** It safeguards the reputation of a business or brand by preventing user frustration and negative reviews resulting from browser-related issues.

# Challenges in Cross Browser Testing

- 1. Browser Diversity:** The wide variety of browsers and versions makes it challenging to cover all combinations comprehensively.
- 2. Inconsistent Rendering:** Browsers render web pages differently, leading to visual and functional discrepancies that need to be addressed.
- 3. Dynamic Web Elements:** Dynamic content, AJAX, and JavaScript can behave differently across browsers, requiring additional testing efforts.
- 4. Mobile Devices:** Testing on various mobile devices and screen sizes adds complexity due to differing capabilities and behaviors.
- 5. Maintenance Overhead:** Frequent browser updates require ongoing test script maintenance to remain compatible, increasing the testing effort.

# Cross Browser Testing Tools



SMARTBEAR  
**BitBar**



**BrowserStack**

 **SAUCE LABS**



“

**See you in Next Video**

