Differences between HTMLCollection vs NodeList & Append vs AppendChild

# HTMLCollection vs NodeList

HTMLCollection and NodeList are both collections of DOM nodes, but they have key differences.

## 1. Types of Nodes:

• HTMLCollection: Contains only element nodes, such as <div>, <span>.

• NodeList: Can contain various types of nodes, including elements, text nodes, and comment nodes.

## 2. Accessing Items:

• HTMLCollection: Items can be accessed by their index number, name attribute, or id attribute.

• NodeList: Items can only be accessed by their index number.

## 3. Live vs Static:

• HTMLCollection: It is live, meaning it automatically updates when the document changes (e.g., if elements are added or removed).

• NodeList: It can be live or static. For example, the childNodes property is live, while querySelectorAll returns a static NodeList.

# Append vs AppendChild

append and appendChild are both used to add content to a webpage, but they function differently.

## 1. Type of Content:

• append: Can add multiple elements and text nodes, including strings.

• appendChild: Can only add a single node object at a time. It does not support adding plain text directly.

## 2. Versatility:

• append: More versatile, allowing for both nodes and text, making it suitable for dynamic content.

• appendChild: Less versatile, requiring you to create text nodes if you need to add text.

## 3. Browser Support:

• append: Not supported in Internet Explorer.

• appendChild: Supported in all major browsers, including Internet Explorer.