

# Update Element

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## AGENDA

1. Element.attributes
  2. HTMLElement.dataset
  3. Element.classList
  4. HTMLElement.style
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## 1. Element.attributes

### Common attributes

#	Name	Desc
1	Element.id	the id of the element
2	Element.className	get class string
3	HTMLElement.hidden	indicating the element is hidden or not
4	HTMLElement.title	text appears in a popup box when hover
5	...	...

### Element specific attribute

- HTMLAnchorElement `<a>`: href, rel, target, ...
- HTMLImageElement `<img>`: src, alt, ...
- ...

### Custom attributes

#	Name	Desc
1	Element.getAttribute(name)	get value of an attribute by name
2	Element.hasAttribute(name)	check if an attribute is existed
3	Element.setAttribute(name, value)	set value for attribute name
4	Element.removeAttribute(name)	remove an attribute by name
5	Element.toggleAttribute(name)	toggle an attribute
6	Element.attributes()	live collection of all attribute nodes

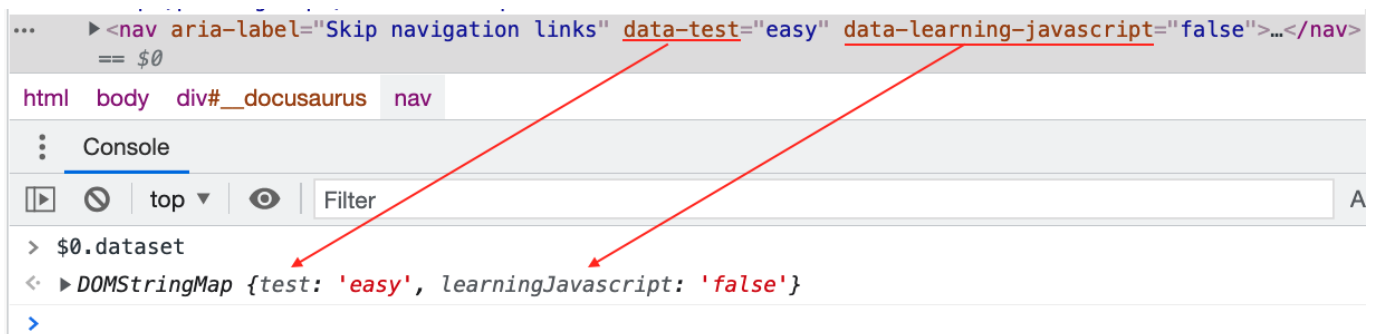
```
const title = document.getElementById('title');
if (title) {
  title.setAttribute('learn', 'javascript');

  title.hasAttribute('learn'); // true
  title.getAttribute('learn'); // javascript
}
```

Read more about [property-attribute sync](#)

## 2. HTMLElement.dataset

- HTMLElement.dataset (read-only) provide read/write access to custom data attributes (data-\*)
- In HTML, **kebab-case**
- In Javascript, **camelCase**



```
<nav id="topnav" data-test="easy" data-learning-javascript="false">
  <!-- ... -->
</nav>
```

```
const nav = document.getElementById('topnav');
if (nav) {
  // get data attributes
  nav.dataset.test; // easy
  nav.dataset.learningJavaScript; // false

  // set data attribute (it will convert to string)
  nav.dataset.test = 'hard';
  nav.dataset.learningJavaScript = true;
}
```

### 3. Element.classList

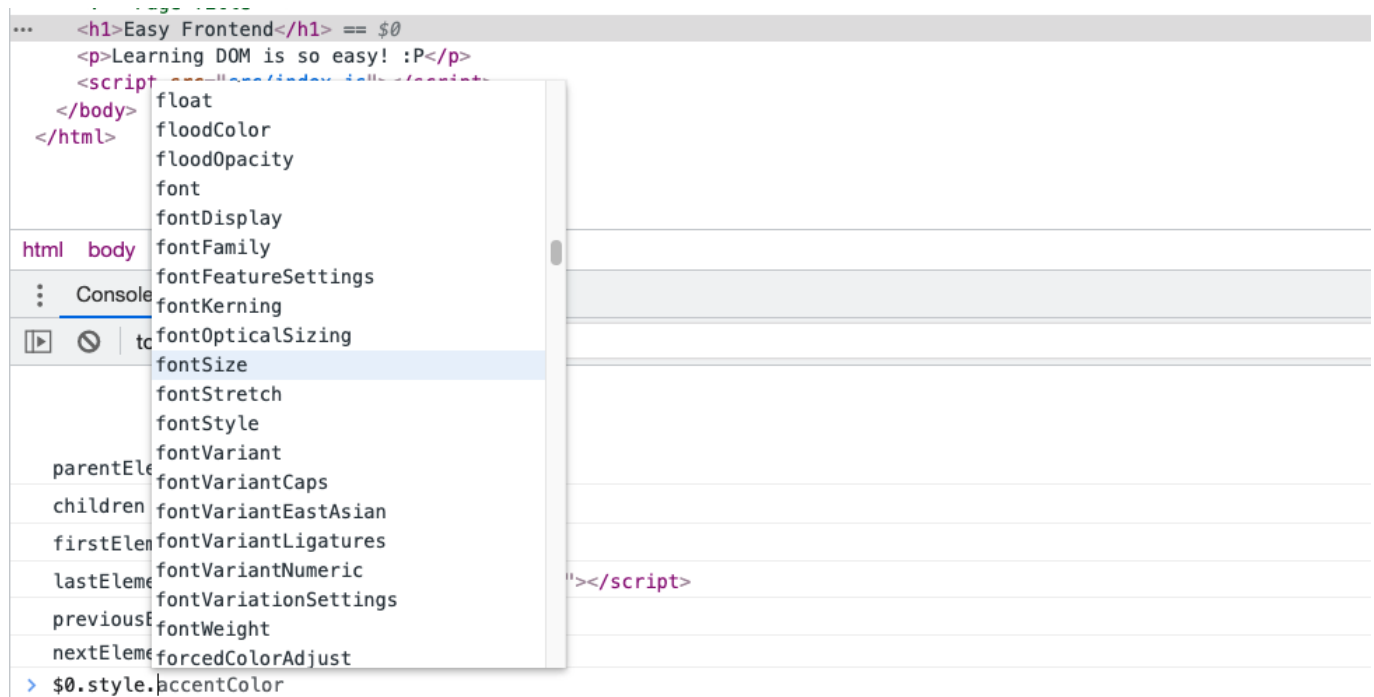
#	Name	Desc
1	Element.classList (read-only)	return a <b>live DOMTokenList</b> collection of the class
2	Element.classList. <b>add</b> (class1, class2, ...)	add class
3	Element.classList. <b>remove</b> (class1, class2, ...)	remove class
4	Element.classList. <b>replace</b> (oldClass, newClass)	replace oldClass with newClass
5	Element.classList. <b>toggle</b> (class)	toggle class

```
function handleToggleClick() {  
  const accordion = document.getElementById('accordion');  
  if (!accordion) return;  
  
  accordion.classList.toggle('active');  
}
```

## 4. HTMLElement.style

#	Name	Desc
1	HTMLElement.style.width	get / set CSS width
2	HTMLElement.style.height	get / set CSS height
3	HTMLElement.style.color	get / set CSS color
4	HTMLElement.style.backgroundColor	get / set CSS background-color
5	HTMLElement.style.fontSize	get / set CSS font-size
6	HTMLElement.style.fontWeight	get / set CSS font-weight
...	...	...

Rule: transform **kebab-case** to **camelCase** to use as property in style object.



```

const title = document.getElementById('title');
if (title) {
  // set style
  title.style.color = 'red';
  title.style.fontSize = '24px';
  title.style.fontWeight = 'bold';

  // get style
  const computedStyle = getComputedStyle(title);
  computedStyle.color; // rgb(255, 0, 0)
}

```

## Tham khảo

- <https://developer.mozilla.org/en-US/docs/Web/API/Element/attributes>
  - <https://developer.mozilla.org/en-US/docs/Web/API/HTMLElement/dataset>
  - <https://developer.mozilla.org/en-US/docs/Web/API/Element/classList>
  - <https://developer.mozilla.org/en-US/docs/Web/API/HTMLElement/style>
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## Khoá học Javascript cho người mới bắt đầu 2021 🎉

- Tác giả: **Hậu Nguyễn** - Founder Easy Frontend
- Khoá học chỉ được published trên Udemy, không thông qua trung gian.
- Khoá học không bán dạng videos upload trên Google Drive hay bất cứ hình thức nào tương tự.
- Khoá học có nhóm discord để hỗ trợ trong quá trình học tập.

☎️ Liên hệ tác giả để được hỗ trợ:

- ✅ Facebook: <https://www.facebook.com/nvhauesmn/>
- ✅ Fanpage: <https://www.facebook.com/learn.easyfrontend>
- ✅ Youtube Channel: <https://www.youtube.com/easyfrontend>