```javascript
//single element defined by id
const app    = document.getElementById('app')
//multiple elements(arrays) defined by class name
const hero   = document.getElementsByClassName('hero')
//multiple elements based on html tag
const h1     = document.getElementsByTagName('h1')
//first element based on selector
const hero   = document.querySelector('.hero')
//multiple elements based on selector
const heroes = document.querySelectorAll('.hero')
```

```javascript
//create html element of tag <p>
let para = document.createElement('p')
//create text node
let text = document.createTextNode('I ♥ it')

//add text node to the para element
para.appendChild(text)

<p>I ♥ it</p>

//insert h2 before h1
app.insertBefore(h2, h1)
```

```javascript
h1.insertAdjacentHTML('beforebegin', '<span>cool</span>')

// beforebegin => placed before h1 as a sibling
// afterbegin  => placed inside h1 as a first child
// beforeend   => placed inside h1 as a last child
// afterend    => placed after h1 as a sibling
```

```javascript
app.classList.remove('dark')    // remove class
app.classList.add('light')      // add class
app.classList.toggle('visible') // toggle class
app.classList.contains('app')   // true if app present
app.childNodes // retrieve all child nodes
app.parentNode // return parent node
```

```html
<div id="app" class="hero dark">
  <h1>Sketchnotes by Proful</h1>
</div>
```

# JAVASCRIPT DOM