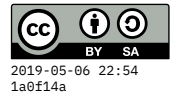# Javascript basics

Adding scripts to a page

We include JS code within HTML either by embedding it internally in a `script` tag:

```
<script>
console.log("embedded code")
</script>
```

Or by referencing an external file with the `src` attribute:

```
<script src="file.js"></script>
```

And then `file.js` would contain:

```
console.log("external code")
```

Browser console

When developing client-side (in-browser) apps in Javascript, it's very important to check on the browser console, part of the developer tools.
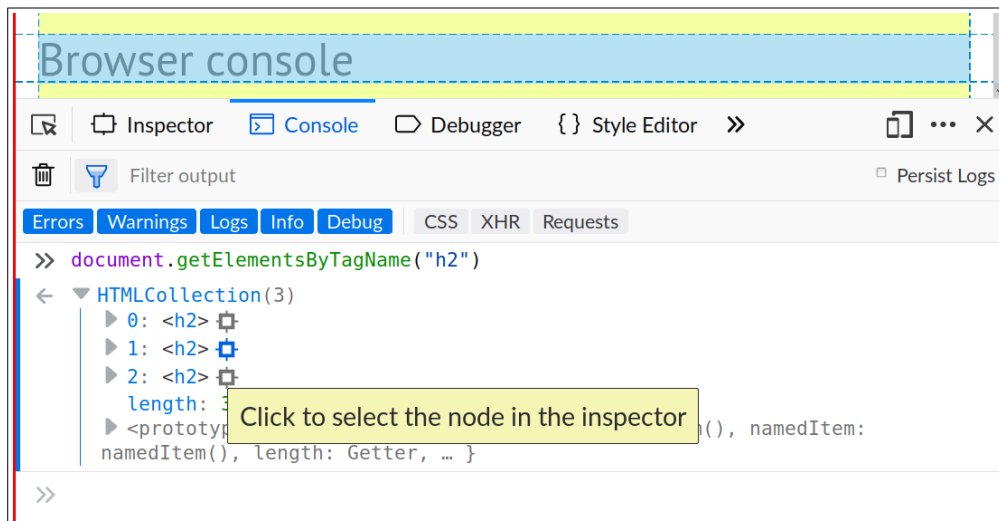

Figure 1: Open the console to see error messages, log messages, to try out JS functions, and browse results

DOM

- `document.getElementById`
- `document.getElementsByTagName`

- `document.getElementsByClass`

- `.nextElementSibling`

- `.parent`

- `.children`

See `jsdemo`[1] in the public repository in gitlab for examples.

[1]`gitlab.liu.e du/cs120s19/ cs120pub/blo b/master/jsd emo/`

Figure 2: @nonprofWHIT on Twitter