# COMP6080 Web Front-End Programming

Javascript

In the web browser

## Where to put your browser-based Javscript

Javascript is a programming language, that has two main uses:

- 1. Javascript used to manipulate the DOM in a web browser (discussed in another lecture)

  2. Javascript used to write scripts with NodeJS
  - (discussed in another lecture)

Today we are focusing on (1).

More specifically, what are the different ways you can include your Javascript in a page run by a web browser?

## **HOW** code is included

Code can either be included inline (part of the page) or included via external link (URL to resource)

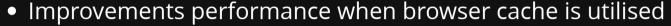
#### inline

```
1 <script type="text/javascript">
2 const a = 1 + 2;
3 console.log(a);
4 </script>
mypage1.html
```

#### external

## HOW code is included

### Linking javascript externally:



• Reduces the time it takes for initial html document to be received (smaller file)

#### Placing Javascript inline:

 Avoids network requests (potentially costly) for script if file is not yet loaded

## WHERE code is included

#### Generally speaking you can either:

- 1. Include in the <head> or at the top of <body> if you **need** your javascript to run prior to your DOM elements doing initial render
- 2. Include at the end of <body> if you need **do not need** your javascript to run prior to your DOM elements initially rendering