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:

- Improvements performance when browser cache is utilised
- 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