In addition to the COMP6017 module pages on the intranet, please see also:

- [https://hci.ecs.soton.ac.uk/wiki/JavascriptReferences](https://hci.ecs.soton.ac.uk/wiki/JavascriptReferences)
- [https://hci.ecs.soton.ac.uk/wiki/NodejsReferences](https://hci.ecs.soton.ac.uk/wiki/NodejsReferences)
Web Services, not Web Applications!
Web Services, not Web Applications!

This module is NOT about Javascript in the browser
Web Services, not Web Applications!

Our focus is on the server side
Web Services, not Web Applications!

Node.js is an alternative (replacement) to having a Web server (e.g. Apache, nginx) and to languages like PHP, Python, Java, Perl, etc..
Web Services, not Web Applications!

Node.js is an alternative (replacement) to having a Web server (e.g. Apache, nginx) and to languages like PHP, Python, Java, Perl, etc..
Web Services, not Web Applications!

Node.js is an alternative (replacement) to having a Web server (e.g. Apache, nginx) and to languages like PHP, Python, Java, Perl, etc..

Node.js (Javascript on the server) is the focus of this module
Hands-on Node.js Examples

• Load file from disk: 01_loadfile.js

• Parse html: 02_parse_html.js

• Load file from network (& parse it): 03_weather.js
Hands-on Node.js Examples

• Load file from disk: 01_loadfile.js
  – Event driven in action: asynchronous callback

• Parse html: 02_parse_html.js
  – Using (& installing) libraries: npm

• Load file from network (& parse it): 03_weather.js
  – More libraries
Hands-on Node.js Examples (cont.)

• Respond to an HTTP request: 04_hello_http.js

• Get info from the HTTP request: 05_http_url.js

• Combine all of the above: 06_http_weather.js & 07_http_weather_closure.js
Hands-on Node.js Examples (cont.)

- Respond to an HTTP request: `04_hello_http.js`
  - Node built-in http server features
- Get info from the HTTP request: `05_http_url.js`
  - More built-in features
- Combine all of the above: `06_http_weather.js` & `07_http_weather_closure.js`
  - Closure in action, a practical example
Summary

• Examples of Node.js in action:
  – lots of libraries
  – npm: node package manager
  – callbacks in practice
  – closure in practice