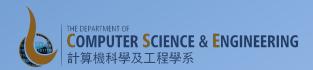
# Node.js and NPM

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### What is Node.js?

- JavaScript runtime built on Chrome V8
   JavaScript Engine
- Uses an event-driven, non-blocking I/O model
  - Makes it lightweight and efficient

#### Node Architecture

Node Core / Standard Library (JS)

Node Bindings (C++)

Chrome V8 (C++)

libuv (C)

#### Node.js Use Cases

- Utilities written in JavaScript for web development:
  - Bower, Grunt, Gulp, Yeoman etc.
- Server-side Development
  - Web server, Business logic, Database access

# Node Package Manager

- Node package manager (NPM): manages ecosystem of node modules / packages
- A package contains:
  - JS files
  - package.json (manifest)

# Exercise: Setting up Node.js and NPM

- Complete the set up of Node.js and NPM on your machine
- Understand the basics of Node.js and NPM