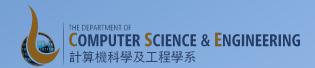
Introduction to Express

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What is Express

- Express: Fast, unopinionated, minimalist web framework for Node.js (from expressjs.com)
- Web application framework that provides a robust set of features
- Many third-party middleware to extend functionality
- Installing Express:
 - In your project folder do: npm install express --save

Express Hello World Example

```
var express = require('express'),
  http = require('http');
var hostname = 'localhost';
var port = 3000;
var app = express();
app.use(function (reg, res, next) {
  res.writeHead(200, { 'Content-Type': 'text/html' });
  res.end('<html><body><h1>Hello World</h1></body></html>');
});
var server = http.createServer(app);
server.listen(port, hostname, function(){
  console.log(`Server running at http://${hostname}:${port}/`);
});
```

Express Middleware

- Middleware provide a lot of plug-in functionality that can be used within your Express application
- Example: morgan for logging var morgan = require('morgan'); app.use(morgan('dev'));
- Serving static web resources: app.use(express.static(__dirname + '/public'));
 - Note: ___filename and ___dirname give you the full path to the file and directory for the current module

Serving Static Content

```
var express = require('express');
var morgan = require('morgan');
var hostname = 'localhost';
var port = 3000;
var app = express();
app.use(morgan('dev'));
app.use(express.static( dirname + '/public'));
app.listen(port, hostname, function(){
console.log(`Server running at http://${hostname}:${port}/`);
});
```

Exercise: Introduction to Express

- Implement a simple web server
- Implement a web server that serves static content