

# Node and the HTTP Module

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# Node HTTP Module

- Core networking module supporting a high-performance foundation for a HTTP stack
- Using the module:  
`var http = require('http');`
- Creating a server:  
`var server = http.createServer(function(req, res){ . . . });`
- Starting the server:  
`server.listen(port, . . . );`

# Node HTTP Module

- Incoming request message information available through the first parameter “req”
  - req.headers, req.body, . . .
- Response message is constructed on the second parameter “res”
  - res.setHeader("Content-Type", "text/html");
  - res.statusCode = 200;
  - res.writeHead(200, { 'Content-Type': 'text/html' });
  - res.write('Hello World!');
  - res.end('<html><body><h1>Hello World</h1></body></html>');

# Node path Module

- Using path Module:  
`var path = require('path');`
- Some example path methods:  
`path.resolve('./public'+fileUrl);`  
`path.extname(filePath);`

# Node fs Module

- Use fs module in your application

```
var fs = require('fs');
```

- Some example fs methods:

```
fs.exists(filePath, function(exists) { . . . } );
```

```
fs.createReadStream(filePath).pipe(res);
```

# Exercise: Node and the HTTP Module

- Constructing a simple HTTP Server
- Constructs a server that returns html files from a folder