

Node Modules: Further Details

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Node Modules

- File-based Modules
- Core Modules
 - Part of core Node
 - Examples: path, fs, os, util, . . .
- External Node modules
 - Third-party modules
 - Installed using NPM
 - node_modules folder in your Node application

Using Node Modules

- Include them using require function
- File-based modules:
 - `require('./module_name')`
 - Specify the relative path to the file
- Core and External modules:
 - `require('module_name')`
 - Looks for external modules in:
 - `./node_modules`, `../node_modules`, `../../node_modules`, ...
 - Up the folder hierarchy until the module is found

A Brief Tour of a Node Module

- Examine package.json file
- Semantic Versioning
 - <Major Version>.<Minor Version>.<Patch>
 - npm install can specify the acceptable package version:
 - Exact: `npm install express@4.0.0`
 - Patch acceptable: `npm install express@"~4.0.0"`
 - Minor version acceptable: `npm install express@"^4.0.0"`

Exercise: Node Modules: Callbacks and Error Handling

- Using Callbacks and error handling in Node applications
- Using external Node modules