

Unit 10.2 Highlights

(Source: https://nodejs.org/api/fs.html#fs_file_system)

fs - node package for reading / writing files from file system. fs is a built-in (core) node module and does not require npm installation.

(Source: https://nodejs.org/api/fs.html#fs_readfile_path_options_callback)

.readFile() - Asynchronously reads the entire contents of a file.

Ex. 1

```
var fs = require('fs');
fs.readFile('./somefile.txt', function(err, data){
  if (err) throw err;
  console.log(data);
});
```

(Source: https://nodejs.org/api/fs.html#fs_writefile_file_data_options_callback)

.writeFile() - Asynchronously writes data to a file, replacing the file if it already exists.

Ex. 2

```
fs.writeFile('message.txt', 'Hello Node.js', function(err){
  if (err) throw err;
  console.log('The file has been saved!');
});
```

(Source: https://nodejs.org/api/fs.html#fs_appendfile_path_data_options_callback)

.appendFile() - Asynchronously append data to a file, creating the file if it does not yet exist.

Ex. 3

```
fs.appendFile('message.txt', 'data or content being appended', function(err){
  if (err) throw err;
  console.log('The file has been updated/saved!');
});
```

(Source: <https://docs.npmjs.com/cli/install>)

npm - node package manager

npm install - Installs the dependencies in the local **node_modules** folder (include -g flag for global install)

Ex. 4 (command line)

```
$ npm install <packageName>
//installs a single package

$ npm install
//installs ALL packages specified in package.json
```

(Source: <https://docs.npmjs.com/files/package.json>)

npm init - Creates a **package.json** file, which contains all instructions and dependencies for packages required by a node application. Include the -y flag to bypass questions

Ex. 5 (command line)

```
$ npm init -y
//creates package.json with default values, so users don't have to answer each question
```

(Source: <https://docs.npmjs.com/cli/config>)

npm config set - Command used to update values of user and global npmrc files. Visit <https://docs.npmjs.com/files/npmrc> for more on npmrc

Ex. 6 (command line)

```
//use npm config set to change default values
npm config set init.author.email "icecold@freezer.somedomain"
npm config set init.author.name "dj_such_and_such"
npm config set init.author.url "http://whydohotdogscomeinpacksofeightandbunsinten.gov"
-----
```

(Source: <https://www.npmjs.com/package/request>)

request - node package for making HTTP calls using callbacks (supports HTTPS and follows redirects by default)

Ex. 7

```
$ npm install request
//install the request package within your local project folder inside of node_modules
//Then within your .js file, adapt the following format below

var request = require('request');
request('http://www.slickdeals.com', function (error, response, body) {
  console.log('error:', error);
  // Print the error if one occurred
  console.log('statusCode:', response && response.statusCode);
  // Print the response status code if a response was received
  console.log('body:', body); // Print the HTML for the Google homepage.
});
```

(Source: <https://www.npmjs.com/package/request-promise>)

request-promise - node package for making HTTP calls using promises (supports HTTPS and follows redirects by default)

Ex. 8

```
$ npm install request-promise
//install the request-promise package within your local project folder inside of node_modules
//Then within your .js file, adapt the following format below

var rp = require('request-promise');
rp('http://www.google.com')
  .then(function (response) {
    console.log(response)
  })
  .catch(function (err) {
    console.log(err)
  });
```