

The Secrets of the Fullstack Ninja

Part A - The Client Side

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Prerequisites

- ✓ node + npm
- ✓ git + github account
- ✓ Ruby + Sass + Compass
- ✓ Ide / Text editor
- ✓ Core JavaScript + HTML + CSS

Purpose

- ✓ Adopt modern web development work-flow and stack, in-practice those used in LEUI.
- ✓ Set a fundamental understanding of Backbone & Marionette

The Means

Build a SPA Blog App

Web Application

DevOp

Version
Control

Package
Manager

Build
Tool

Web Package
Manager

Server



Git

NPM

Grunt

Bower

Node



Create a github repository

Create a New Repository

GitHub, Inc. github.com/new

Search or type a command Explore Gist Blog Help

hamecoded

Owner: hamecoded / Repository name: myBlog ✓

Great repository names are short and memorable. Need inspiration? How about [potential-wight](#).

Description (optional): A SPA Blog App

☒ Public
Anyone can see this repository. You choose who can commit.

☐ Private
You choose who can see and commit to this repository.

☒ Initialize this repository with a README
This will allow you to `git clone` the repository immediately. Skip this step if you have already run `git init` locally.

Add .gitignore: Yeoman Add a license: MIT License ⓘ

Create repository

© 2014 GitHub, Inc. Terms Privacy Security Contact

Status API Training Shop Blog About

git npm server grunt bower
Create clone push

Clone Locally

```
→ workspace git clone git@github.com:hamecoded/myBlog.git
Cloning into 'myBlog'...
remote: Counting objects: 5, done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 5 (delta 0), reused 0 (delta 0)
Receiving objects: 100% (5/5), done.
Checking connectivity... done.
→ workspace cd myBlog
→ myBlog git:(master)
```

git npm server grunt bower
create clone push

▼ myBlog

- .gitignore
- LICENSE
- README.md

commit & push

.gitignore — myBlog *

```
1 node_modules
2 bower_components
3 .sass-cache
4 .DS_Store
5 .idea
6
7 *.log
8
9 build/
10 dist/
11
```

modify
gitignore

```
→ myBlog git:(master) git add .
→ myBlog git:(master) X git commit -m "modify gitignore"
[master 7f3abd2] modify gitignore
1 file changed, 11 insertions(+), 2 deletions(-)
→ myBlog git:(master) git push origin master
Counting objects: 5, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 390 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To git@github.com:hamecoded/myBlog.git
15228c0..7f3abd2 master -> master
→ myBlog git:(master)
```

git npm server grunt bower
create clone push

Initialize NPM Project

▼ myBlog

.gitignore

LICENSE

package.json

README.md

git npm server grunt
init

→ myBlog git:(master) npm init

This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sane defaults.

See `npm help json` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg> --save` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.

name: (myBlog)

version: (0.0.0)

description: A Blog App

entry point: (index.js)

test command:

git repository: (https://github.com/hamecoded/myBlog.git)

keywords: blog spa

author: Oded Sagir

license: (ISC) MIT

About to write to /Users/odeds/workspace/myBlog/package.json:

```
{
  "name": "myBlog",
  "version": "0.0.0",
  "description": "A Blog App",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "repository": {
    "type": "git",
    "url": "https://github.com/hamecoded/myBlog.git"
  },
  "keywords": [
    "blog",
    "spa"
  ],
  "author": "Oded Sagir",
  "license": "MIT",
  "bugs": {
    "url": "https://github.com/hamecoded/myBlog/issues"
  },
  "homepage": "https://github.com/hamecoded/myBlog"
}
```

Is this ok? (yes) yes



File content

installing our first node module

→ `npm install express --save`

will add express
under node_modules

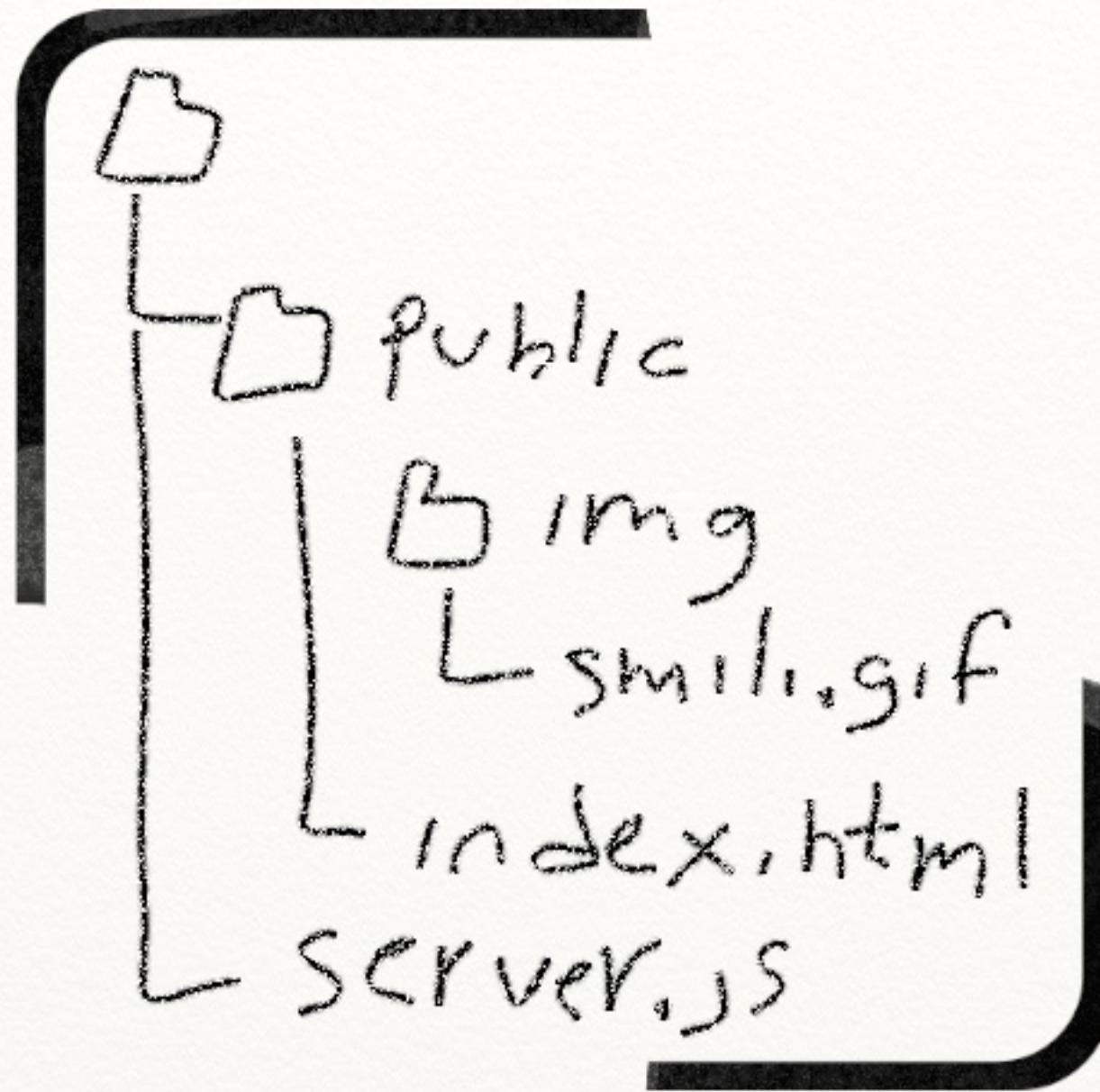
module
name

save to
package.json

git npm server grunt bower
init install

```
myBlog git:(master) X npm install express --save
express@4.4.3 node_modules/express
├─ parseurl@1.0.1
├─ utils-merge@1.0.0
├─ escape-html@1.0.1
├─ cookie-signature@1.0.3
├─ fresh@0.2.2
├─ merge-descriptors@0.0.2
├─ qs@0.6.6
├─ vary@0.1.0
├─ serve-static@1.2.3
├─ range-parser@1.0.0
├─ path-to-regexp@0.1.2
├─ cookie@1.0.1
├─ ipaddr.js@0.1.2
├─ debug@0.7.2 ms@0.6.2
├─ negotiator@0.5.1 (mime-types@1.0.0)
├─ accepts@1.0.3 (mime@1.2.11, negotiator@0.4.6)
├─ send@0.4.3 (mime@1.2.11, finished@1.2.2)
myBlog git:(master) X
```


Server fs Structure



git npm **server** grunt bower
fs SPA run

Not just a server but a SPA server

```
server.js
1  /**
2   * An express server to serve a SPA app
3   * we use express to simplify handling of static files
4   * whilst directing all paths to main index.html
5   * for handling browser refresh
6   * a more complicate solution using standard modules can be found here:
7   * https://coderwall.com/p/b2kmkg
8   * an interesting discussion:
9   * http://stackoverflow.com/questions/7268033/basic-static-file-server-in-nodejs
10  */
11  var express = require('express'),
12      app = express();
13
14  app.use(express.static(__dirname + '/public'));
15
16  app.get('*', function (req, res) {
17    res.sendFile(__dirname + '/public/index.html');
18  });
19
20  var server = app.listen(process.env.PORT || 8088, function() {
21    console.log('Listening on port %d', server.address().port);
22  });
```

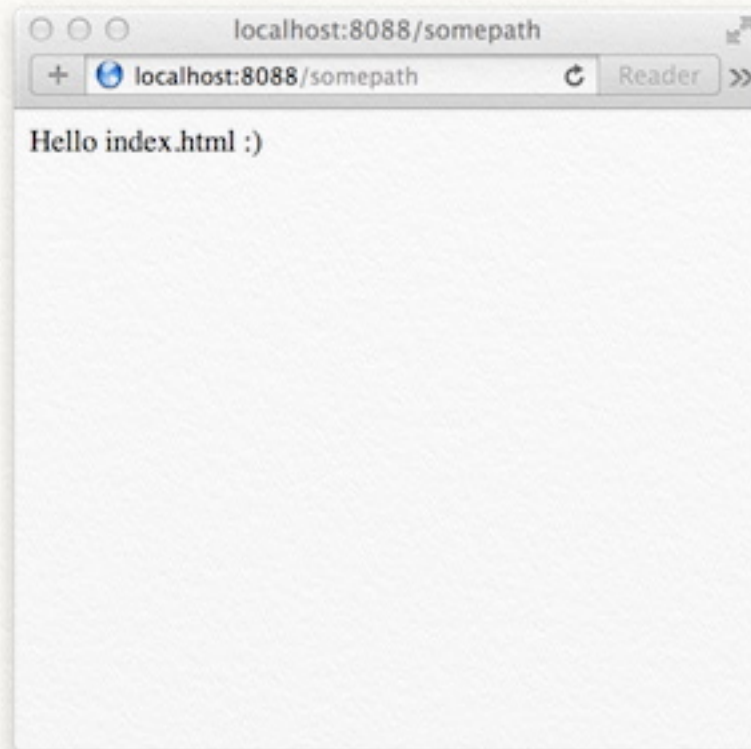
will handle
assets

a route
not found will
respond with
index.html

git npm server grunt bower
fs SPA run

Test & Run your Server

```
→ myBlog git:(master) x node server.js  
Listening on port 8088
```



git npm **server** grunt bower
fs SPA **run**

It's Training Time



Web Application **Infra** Soup

