# Bootstrap 설치

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## 1. Npm 설치

https://nodejs.org/ko/download/

## 2. Bower 설치



## Install Bower

Bower is a command line utility. Install it with npm.

```
$ npm install -g bower
```

Bower requires node, npm and git.

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### .bowerrc

Bower can be configured using JSON in a .bowerrc file. For example:

```
{
    "directory": "app/components/",
    "timeout": 120000,
    "registry": {
      "search": [
        "http://localhost:8000",
        "https://registry.bower.io"
      ]
    }
}
```

### Bower.json
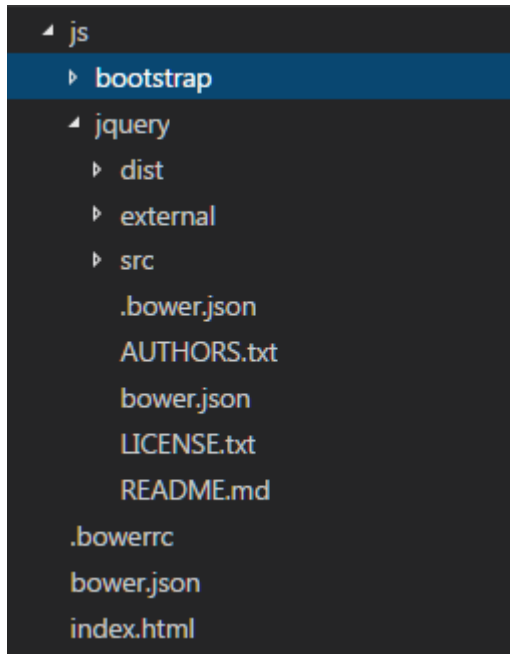
Bower init 후 bower.json 파일 생성

```
C:\Users\minah\Downloads\temp>bower init
? name temp
? description
? main file
? keywords
? authors woosan95 <nosignal95@gmail.com>
? license MIT
? homepage
? set currently installed components as dependencies? Y
? add commonly ignored files to ignore list? Yes
? would you like to mark this package as private which
? would you like to mark this package as private which
gistry? No

{
  name: 'temp',
  authors: [
    'woosan95 <nosignal95@gmail.com>'
  ],
  description: '',
  main: ''
```

# Jquery, bootstrap 설치

```
C:\Users\minah\Downloads\temp>bower install jquery --save
bower cached        https://github.com/jquery/jquery-dist.git#3.2.1
bower validate      3.2.1 against https://github.com/jquery/jquery-dist.git#*
bower cached        https://github.com/jquery/jquery-dist.git#3.2.1
bower validate      3.2.1 against https://github.com/jquery/jquery-dist.git#1.9.1 - 3

C:\Users\minah\Downloads\temp>bower install bootstrap --save
bower cached        https://github.com/twbs/bootstrap.git#3.3.7
bower validate      3.3.7 against https://github.com/twbs/bootstrap.git#*
```

```
▲ js
  ▷ bootstrap
  ▲ jquery
    ▷ dist
    ▷ external
    ▷ src
      .bower.json
      AUTHORS.txt
      bower.json
      LICENSE.txt
      README.md
  .bowerrc
  bower.json
  index.html
```

설치결과 폴더 구조

```json
 1  {
 2    "name": "temp",
 3    "description": "",
 4    "main": "",
 5    "license": "MIT",
 6    "homepage": "",
 7    "ignore": [
 8      "**/.*",
 9      "node_modules",
10      "bower_components",
11      "js",
12      "test",
13      "tests"
14    ],
15    "dependencies": {
16      "jquery": "^3.2.1",
17      "bootstrap": "^3.3.7"
18    }
19  }
20
```

설치결과 bower.json

# Bootstrap

# DOCUMENT

https://www.w3schools.com/bootstrap/

http://getbootstrap.com/docs/3.3/