



Charlotte Node.js

NODE PACKAGE MANAGER (NPM)





Agenda

Introduction

Housekeeping

The Topic



Hello

Technology Enthusiast
Standup Philosopher
Relentless Startupper

@BmanClt



Bilal Soylu

Chief Worker Bee @ XcooBee





Housekeeping Questions

Next Meeting

Who wants to help?

- Co-organizer
- Know someone?



Out Approach Today

We will experiment with NPM.

Some stuff will work, other stuff

Your experiences and comments are welcome

If you see me typing something wrong, say something ;o)



NPM

EXPLORATION





What izz it

“npm is a Package Manager. It is written entirely in JavaScript and was developed by Isaac Z. Schlueter as a result of having "seen module packaging done terribly" and with inspiration from the shortcomings of other similar projects such as PHP (PEAR) and Perl (CPAN).”



Manage your project

Help

```
npm help
```

Standard

```
npm init
```

```
npm test
```

```
npm start
```




Managing - not so standard

`npm dedupe`

`npm cache clean`

`npm link`



Running your own scripts

```
npm run
```

```
npm run <scriptname> <npm options> -- <script options>
```

```
npm run myscript -- --grep="pattern"
```

npm without "run" prefix: `npm start`, `npm test`, `npm version` etc.



Add remote building blocks

```
npm install <package>
```

```
npm install <package>@1.2.3
```

Add multiple modules

```
npm install backbone mocha
```

Add global

```
npm install -g mocha
```

Remove

```
npm uninstall <package name>
```

```
npm prune --production
```



Save to project package.json

```
npm install <package> --save
```

```
npm install <package> --save-dev
```

```
npm install <package> --save-optional
```

```
npm install <package> --save-exact
```



Installing directly from git

No need for npmjs

You can use this instead of private npm

Use ssh if not public

You can install a specific branch or tag using pound notation

```
npm install git+git@github.com:DamonOehlman/ratchet.git
```

Do you need to use node ?? [--prefix ./somewhere/node_modules]



Configuring CLI

Direct

```
npm <command> --<configuration option> [<optional value>]
```

- `npm publish --access=public`

Env Vars

```
npm_config_[varname]
```

- `npm_config_registry=localhost:7586`
- `npm_config_save=true`

.npmrc file

- project / user / global level
- `npm config set <key> <value>`

Show

```
npm config list
```



Local Inquiry

```
npm bin
```

- See where bin packages are

```
npm ls
```

```
npm outdated <-g>
```

- → follow by `npm update`



Remote Inquiry

```
npm search
```

```
npm view
```

```
npm star
```




Anatomy of package.json

main => index.js

scripts => alias commands (grunt, gulp, node, webpack)

dependencies

devDependencies

bin => package executable files and global commands

config => use npmrc instead ;o)

private => true/false , blocks publication in npm registry

author/contributors [{}]

[custom prop] => anything that does not conflict with reserved ones



Executables

placed in .bin

Script automatically generated for each platform

```
"bin": {  
  "serverless": "./bin/serverless",  
  "slss": "./bin/serverless",  
  "sls": "./bin/serverless"  
},
```



To explore

npm shrinkwrap

- Lockdown dependency version

npm version

- Hooks into lifecycle with scripts

```
"scripts": {  
  "preversion": "npm test",  
  "version": "npm run build && git add -A dist",  
  "postversion": "git push && git push --tags  
                  && rm -rf build/temp"  
}
```



Some other thoughts

npm and nodejs normally are bundled

- You can upgrade npm without changing node but that should be the last resort
- `npm install -g npm@latest`

- Use nvm or nvm-windows to manage multiple nodejs versions

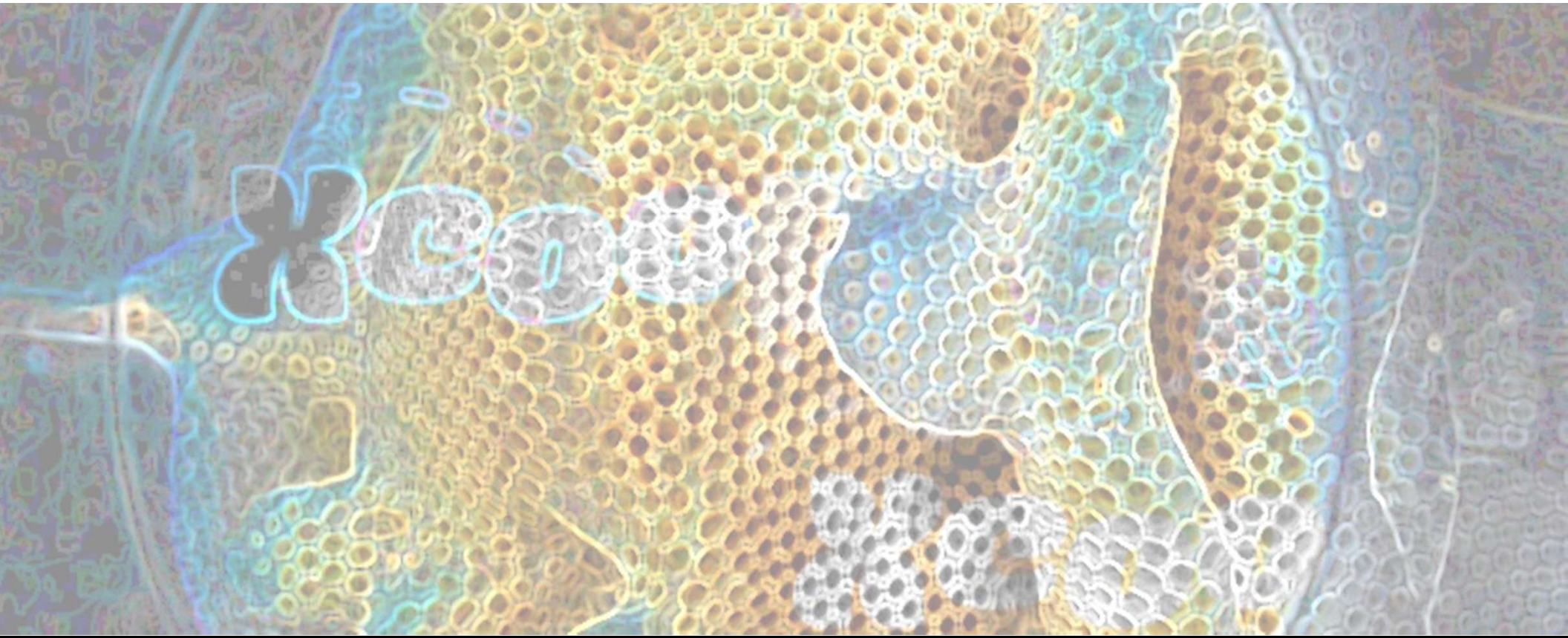


Docs

Plenty available to discover

There is definitely more...

<https://docs.npmjs.com/>



Q&A

Now is the time to ask questions.