



✨✨BASICALLY MAGIC✨✨

@LewisCowper #npmmagic



@LEWISCOWPER

JR FRONT END DEVELOPER

#NPMAGIC

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MODULES  $\cong$  PACKAGES

# MODULES/PACKAGES

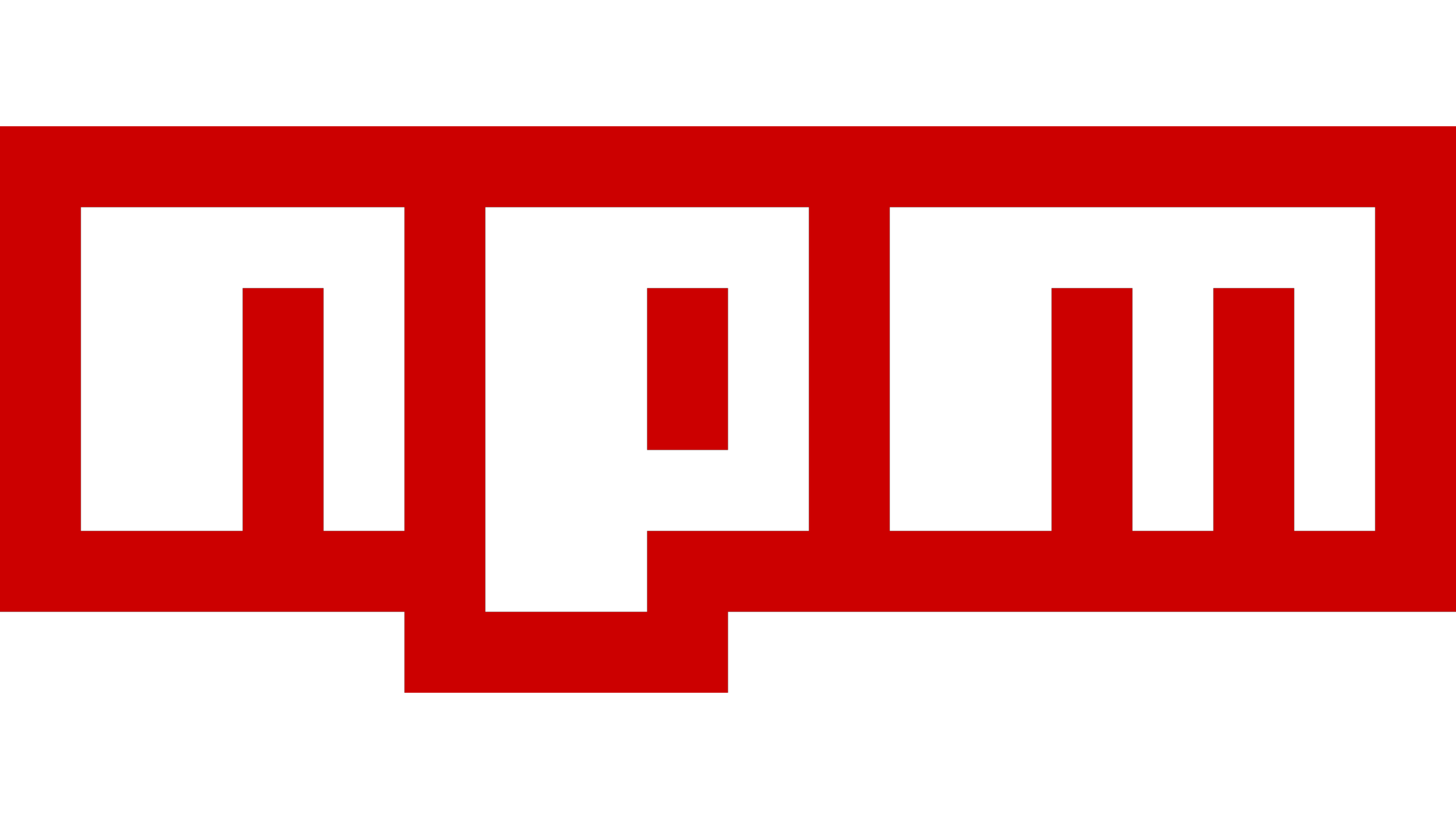
≈

# BIT OF CODE I DON'T WANT TO WRITE

# BUT I HEARD NPM WAS FOR NODE MODULES

— Some random on the internet

# QUICK POLL







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# NPM IS THE PACKAGE MANAGER FOR...

- **browsers**
  - **io.js**
  - **mobile**
- **angular**

# NPM IS THE PACKAGE MANAGER FOR...

- **react**
- **bower**
- **jquery**
- **nodebots**

# NPM IS THE PACKAGE MANAGER FOR...

- **browserify**
- **cordova**
- **docpad**
- **tessel**

NPM IS THE PACKAGE MANAGER FOR...

JAVASCRIPT

# ON THE SERVER



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# AND THE CLIENT



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# TOP TIP

**Initialise a project with the defaults.**

```
$ npm init --yes
```

# SURPRISE POLL



# GRUNT



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# INTRODUCING NPM SCRIPTS

The image features two golden party horns, one on the left and one on the right, angled towards the center. From each horn, a blue streamer and a pink streamer are flying out. Surrounding the horns are small, colorful squares of confetti in blue, pink, orange, and yellow.

# Remember this?

```
$ npm init --yes
```

# Turns out you get a test script for free!

```
"scripts": {  
  "test": "echo \"Error: no test specified\" && exit 1"  
},
```

Not very useful right now. Let's make something  
up...

```
"scripts": {  
  "test": "node test.js"  
}
```

**\$ npm run test**

**or just**

**\$ npm test**



A WILD HYPOTHETICAL SITUATION APPEARS!

```
"scripts": {  
  "test": "echo \"Error: no test specified\" && exit 1",  
  "preversion": "npm run test"  
},
```

```
$ npm version major
```

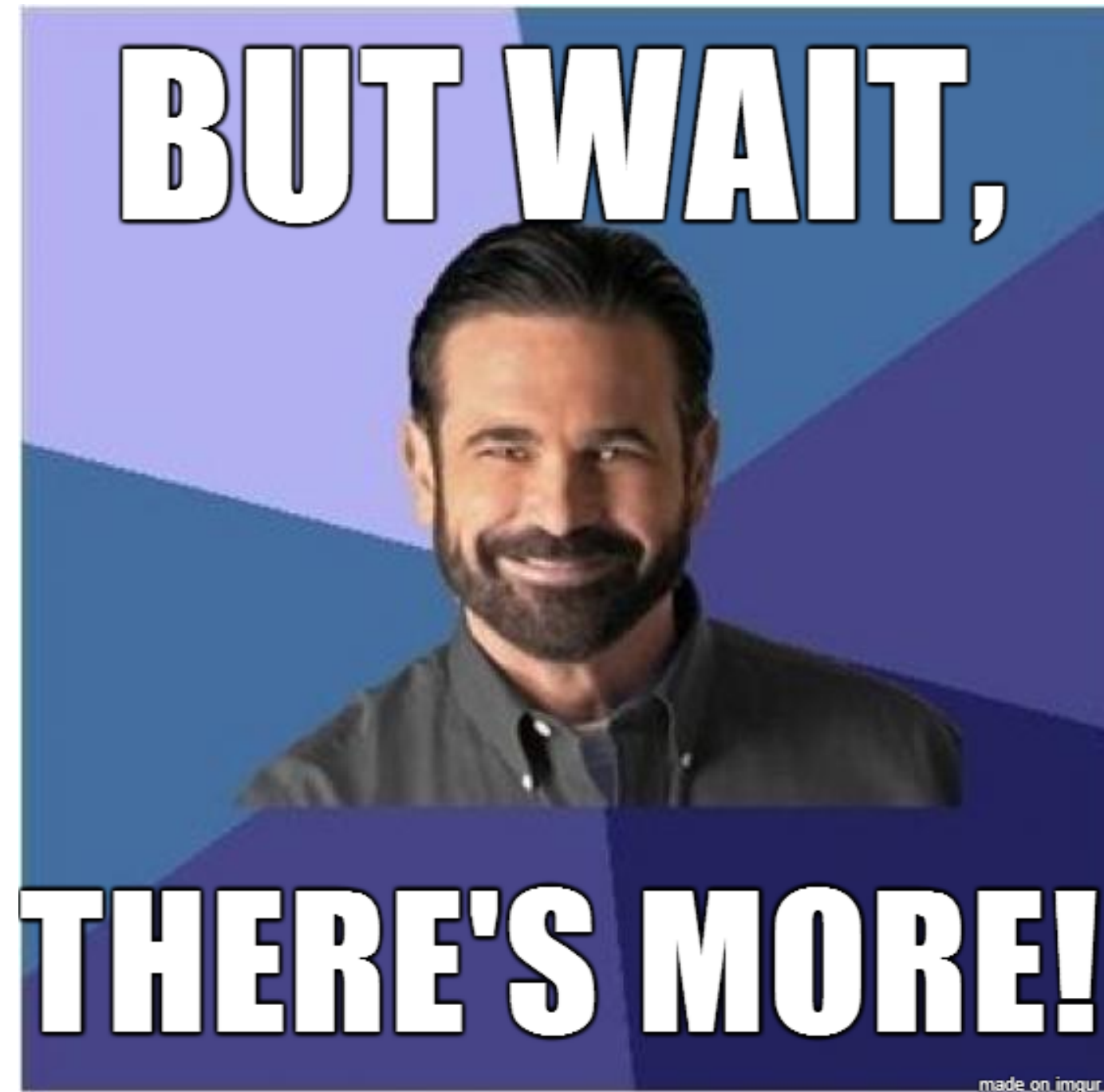
```
> Error: no test specified
```

```
>Exit Status 1
```



# LIFECYCLE HOOKS!

**version** is the command to run to bump the version number of your package according to SemVer.



version isn't alone.

version  
test  
start  
stop  
restart  
publish  
install  
uninstall

# TOP TIP

## prepublish is complex.

**What is npm's prepublish, and why is it so confusing?**

In this article I want to explain why this one particular lifecycle script causes so much confusion and debate.

The process of publishing a package is fragile, because it consists of many tiny steps—each of them important, because the smallest mistake can break your users' apps and modules. It is therefore important to automate as much of it as possible. npm's solution for this are lifecycle event hooks,

## See @boennemann's blog post

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**Script names can be anything you want**  
**Anything defined can have a pre- and post-**  
**step too!**

```
"prestart": "babel server.js --out-file server-compiled.js",  
"start": "node server-compiled.js"
```

```
"start": "babel server.js --out-file server-compiled.js --watch"
```

# SIMPLE COMPOSABLE PARTS<sup>1</sup>

<sup>1</sup> [Watch Kate Hudson \(@k88hudson\) speaking at NordicJS](#)



```
"build": "babel server.js --out-file server-compiled.js",  
"watch": "watch 'npm run build'"  
"start": "npm run build && npm run watch",
```

# SIMPLE COMPOSABLE PARTS<sup>1</sup>

<sup>1</sup> [Watch Kate Hudson \(@k88hudson\) speaking at NordicJS](#)

SHELL + NODE + SOMETHINGEXECUTABLE = NPM SCRIPTS

# TOP TIP

Been writing out `./node_modules/.bin/package` every time?

```
"scripts": {  
  "scriptName": "package"  
}
```

**Within npm scripts, the bin directory is added to your path!**

# TOP TIP

[npm.im/npm-run-all](https://npm.im/npm-run-all)

**Need to run multiple tasks in series or in parallel?  
Or a mix of both? `npm-run-all` has you  
covered.**

**It also features glob-matching which is amazing!**

# NPM SCRIPTS -- THE DOWNSIDES

- **Simpler mental model over performance**
- **Cross compatability (with windows) can be hard**

# NPM SCRIPTS -- THE POSITIVES

- Using tools rather than abstractions
- Fewer dependencies make onboarding quicker
  - You're using npm to install dependencies



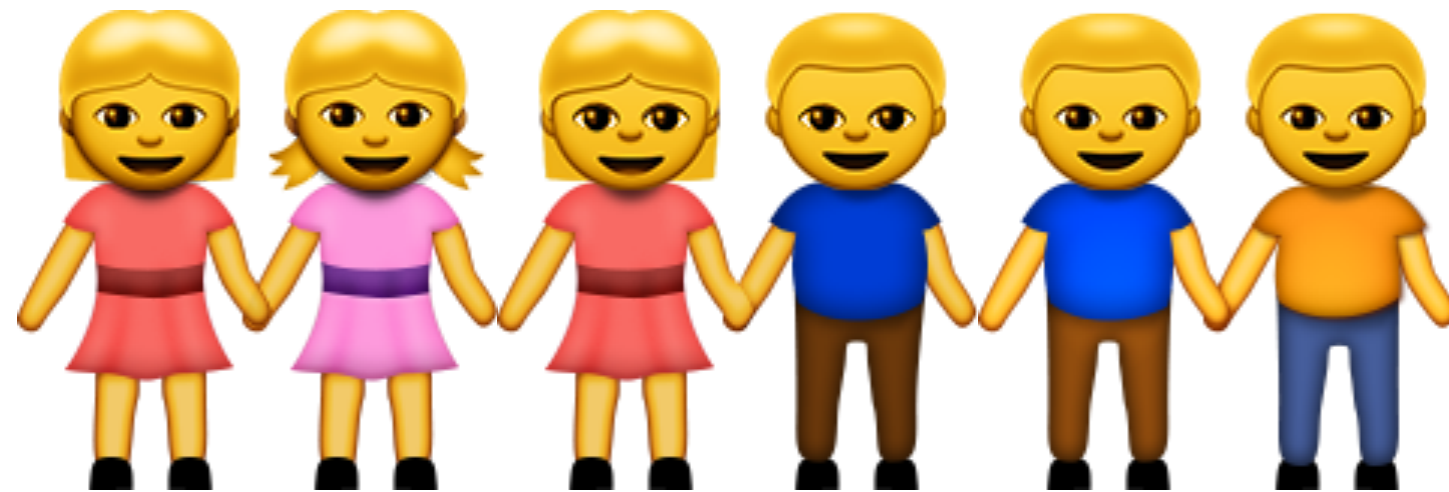


# SCOPED PACKAGES

```
npm install @username/package
```

```
npm publish --access=public
```

# ORGS



**npm team**

**Create teams to manage your packages and their  
scopes.**

# NPM ON-SITE

**New name for npm enterprise**

**Run your own npm registry, for stuff that is super super private.**

# THANKS

@k88hudson **Nordic JS**  
@boennemann **blog post**  
@linclark **jQuery SF**  
@ag\_dubs **You don't know npm**

# THANK YOU!



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