



✨✨BASICALLY MAGIC✨✨

@LewisCowper #npmmagic



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JR FRONT END DEVELOPER

#NPMAGIC

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MODULES \cong PACKAGES

MODULES/PACKAGES

≈

BIT OF CODE I DON'T WANT TO WRITE

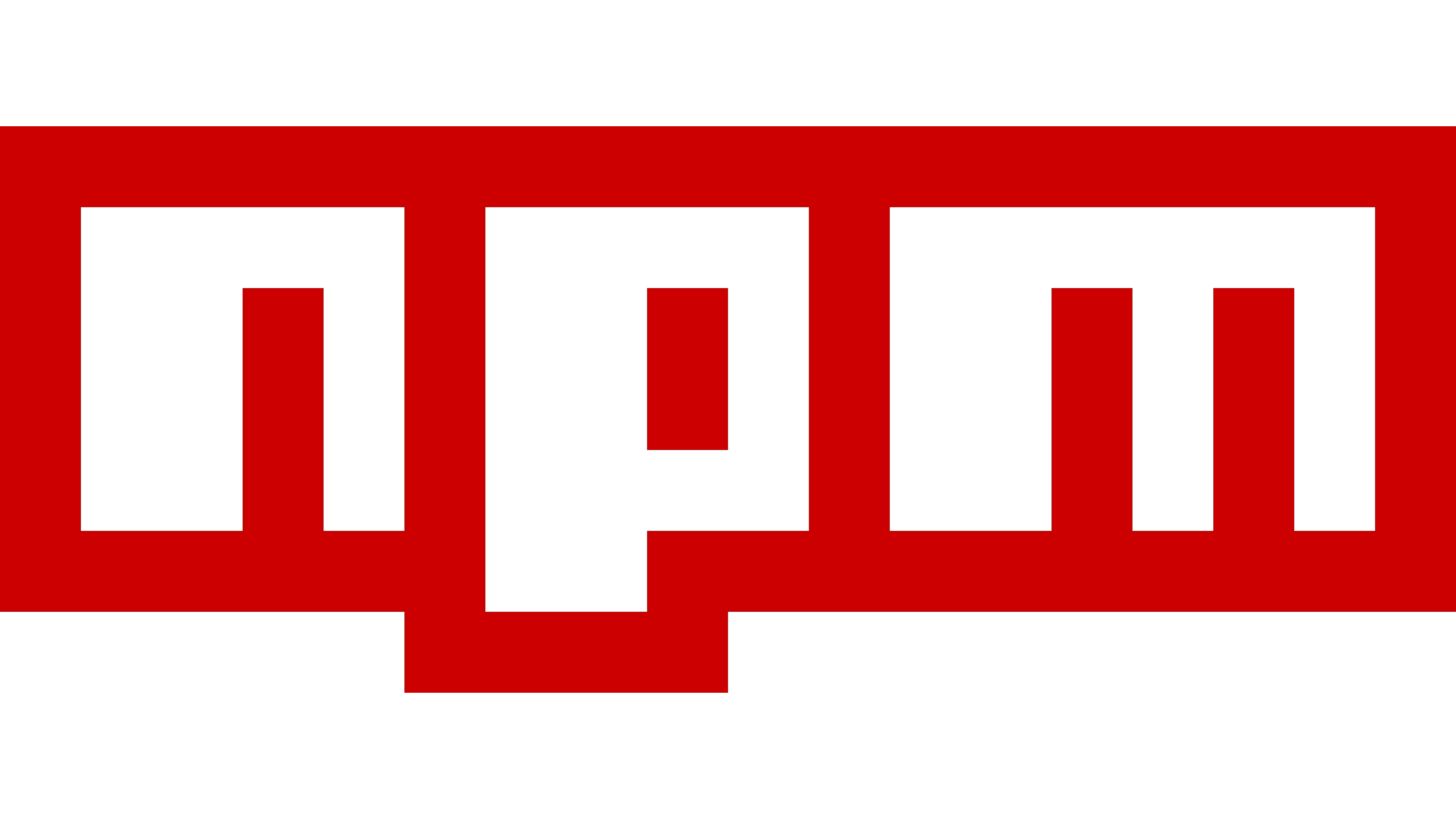
BUT I HEARD NPM WAS FOR NODE MODULES

— 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
```

THE NEXT STEP?

Task-runners?

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"  
},
```



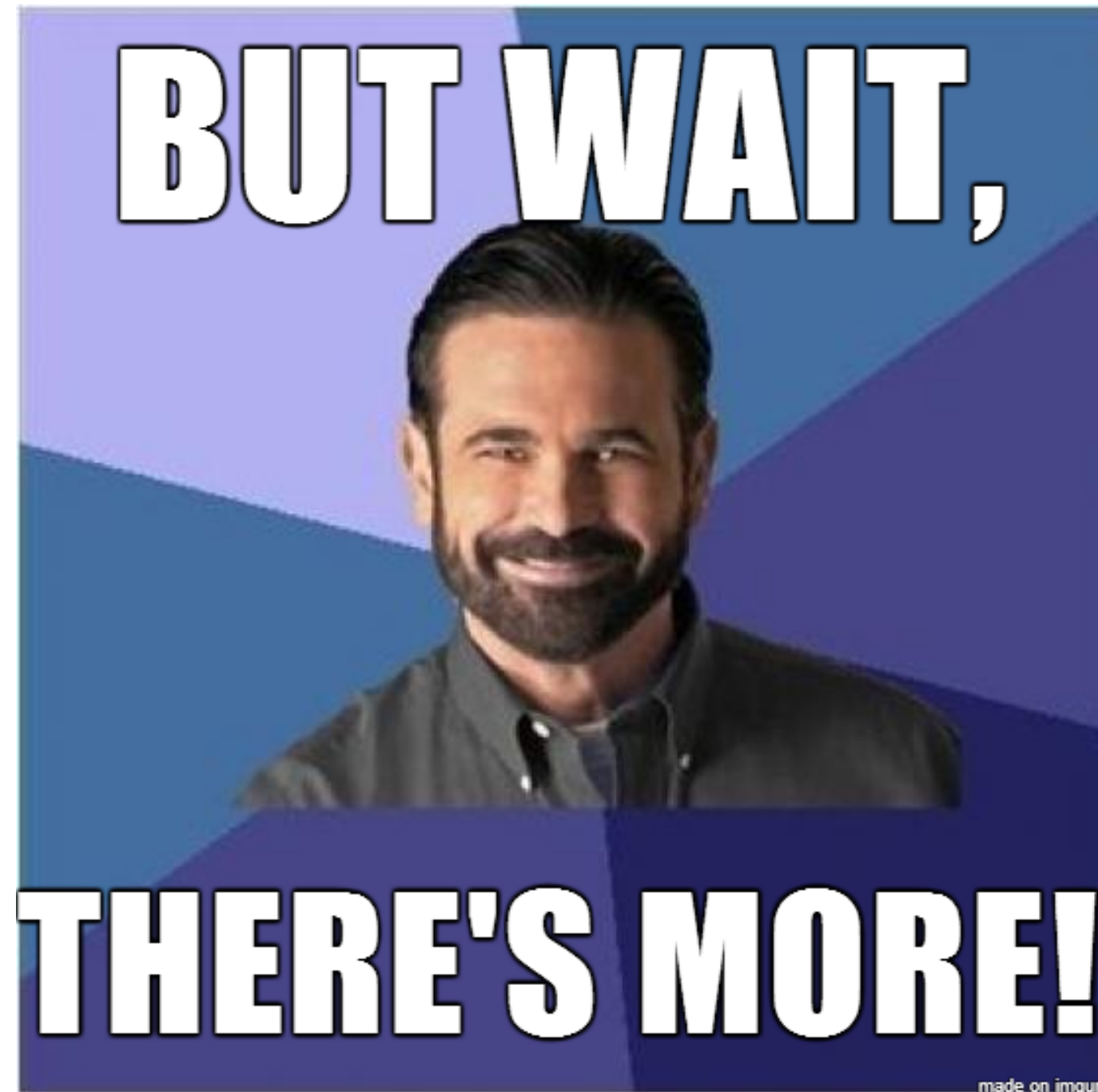
```
$ npm version major
```

```
> 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

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

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 PARTS¹

¹ [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 PARTS¹

¹ [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

**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**
 - **cli tools have inconsistencies that your task runner can't help you with**

NPM SCRIPTS -- THE POSITIVES

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



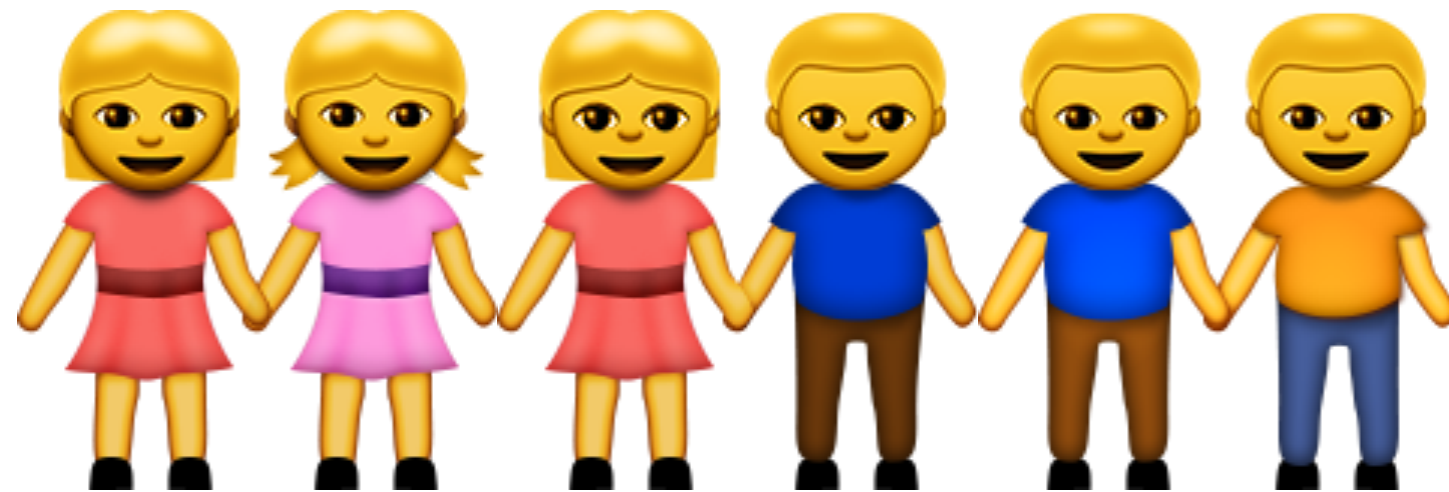
SCOPED PACKAGES

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

TOP TIP

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.

TOP TIPS

- `$ npm init --yes`
- `"scriptName": "package"`
 - npm.im/npm-run-all
- Scoped packages are awesome

THANKS

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

THANK YOU!



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