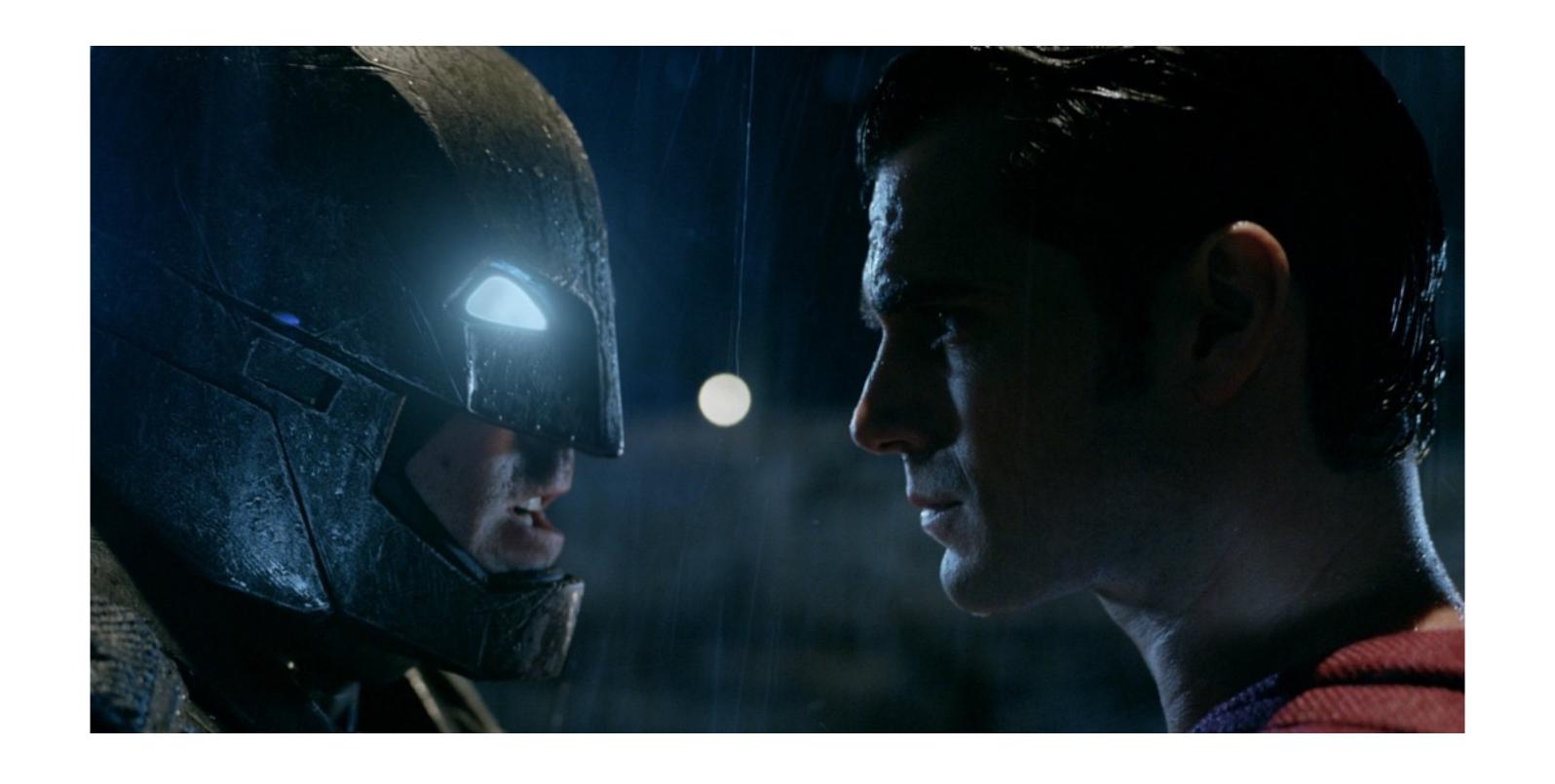# Using TypeScript Decorators with Angular

Decorators

Declarative v Imperative

Declarative Programming

Say what you want

Imperative Programming

Say how to get what you want

Examples

```
import { readonly } from 'core-decorators';

class Meal {
  @readonly
  entree = 'steak';
}


var dinner = new Meal();
dinner.entree = 'salmon';

// Cannot assign to read only property 'entree'
of [object Object]
```

```
import { deprecate } from 'core-decorators';

class Person {
  @deprecate

  facepalm() {}
}


let person = new Person();
person.facepalm();

// DEPRECATION Person#facepalm: This function will be
removed in future versions.
```
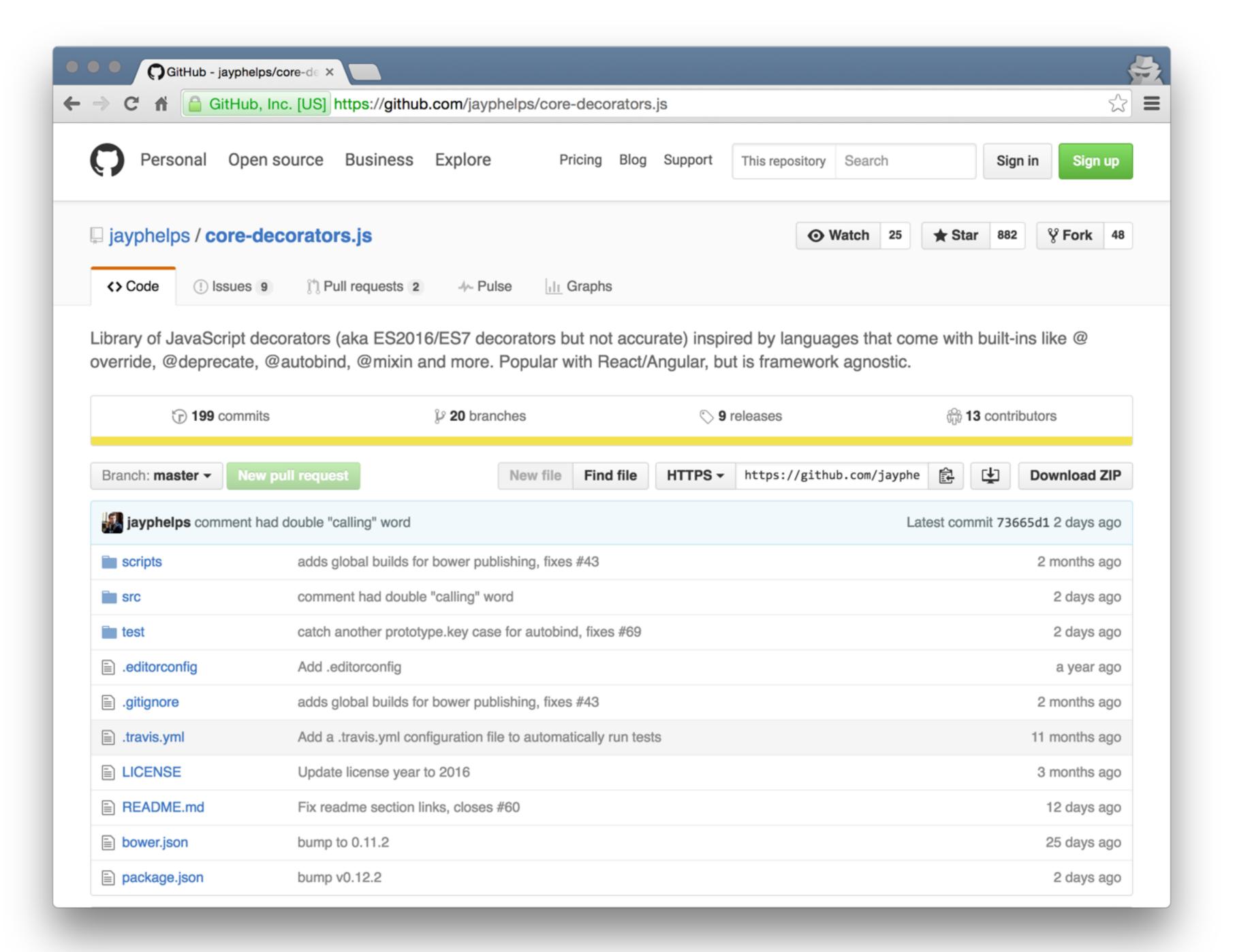
```
import { debounce } from 'core-decorators';

class Editor {
  content = '';

  @debounce(500)
  updateContent(content) {
    this.content = content;
  }
}
```

Decorator Libraries

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📖 jayphelps / **core-decorators.js**   👁 Watch 25   ★ Star 882   🍴 Fork 48

<> Code   ⓘ Issues **9**   Pull requests **2**   Pulse   Graphs

Library of JavaScript decorators (aka ES2016/ES7 decorators but not accurate) inspired by languages that come with built-ins like @override, @deprecate, @autobind, @mixin and more. Popular with React/Angular, but is framework agnostic.

🕓 **199** commits   **20** branches   🏷 **9** releases   👥 **13** contributors

Branch: **master** ▾   New pull request   New file   Find file   HTTPS ▾   https://github.com/jayphe   📋   📥   Download ZIP

👤 **jayphelps** comment had double "calling" word   Latest commit 73665d1 2 days ago

📁 scripts   adds global builds for bower publishing, fixes #43   2 months ago
📁 src   comment had double "calling" word   2 days ago
📁 test   catch another prototype.key case for autobind, fixes #69   2 days ago
📄 .editorconfig   Add .editorconfig   a year ago
📄 .gitignore   adds global builds for bower publishing, fixes #43   2 months ago
📄 .travis.yml   Add a .travis.yml configuration file to automatically run tests   11 months ago
📄 LICENSE   Update license year to 2016   3 months ago
📄 README.md   Fix readme section links, closes #60   12 days ago
📄 bower.json   bump to 0.11.2   25 days ago
📄 package.json   bump v0.12.2   2 days ago

Who's Using Decorators?

Angular 2

3 Demos

Demo #1

@log decorator (for method)

Demo #2

Angular 2 + decorators

Demo #3

AngularJS 1 + decorators

Demos

Thanks!

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https://github.com/smashdevcode/utah-code-camp-2016