How TypeScript Made Me a Better JS Developer



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What is TypeScript, exactly?

Statically Typed Dynamically Typed

Compared to JavaScript

But How Does TypeScript Make You a Better Developer?







- © Create more portable code
- Write better documentation
 - ✓ Increase dev speed

Write Better Component APIs

Using Interfaces

```
interface IButtonProps {
    href: string;
    disabled?: boolean;
    large?: boolean;
}

class Button = React.Component<IButtonProps> => {
    public static defaultProps: Partial<IButtonProps> = {
        href: '',
        disabled: false
    };

public render() {
    return (
        <button {...this.props}>{children}<button>
    );
    }
};

export default Button;
```

PropTypes vs. Interfaces

```
class Button extends Component {
                                                             interface IButtonProps {
 render() {
                                                              href: string;
   return (
                                                               disabled?: boolean;
      <button {...this.props}>{children}<button>
                                                               large?: boolean;
                                                             class Button = React.Component<IButtonProps> => {
                                                              public static defaultProps: Partial<IButtonProps> = {
Button.defaultProps = {
                                                                 disabled: false
 disabled: false
                                                               public render() {
Button.PropTypes = {
                                                                 return (
                                                                   <button {...this.props}>{children}<button>
 children: PropTypes.node,
 href: PropTypes.string,
 disabled: PropTypes.boolean,
 large: PropTypes.boolean
                                                             export default Button;
export default Button;
```

Composing Better Props and State

HOC Higher Order Component

Extending Interfaces

```
interface IWithUserDataProps {
   id: number;
        age: number;
   firstName: string;
   lastName: string;
   nickname?: string;
}

interface IGreetingProps extends IWithUserDataProps {
   message: string;
}
```

Interfaces x TDD

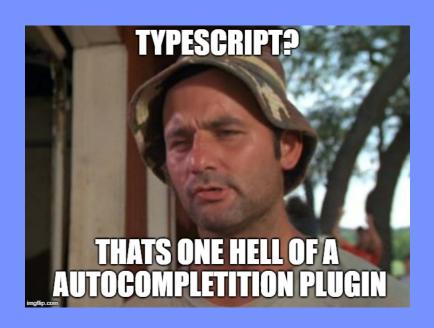
- ▼ Create more portable code
- **✓** Write better documentation
 - ? Increase dev speed



Reads 3rd party declaration files

Gives you cleaner errors

Helps you refactor



Try it for yourself!

https://typescriptcourses.com/typescriptfundamentals

https://www.typescriptlang.org/play

https://basarat.gitbooks.io/typescript

TypeScript support using Babel 7 #4837

<code>% Merged Timer</code> merged 1 commit into facebook:master from brunolemos:next-typescript 4 days ago



THANK YOU!

@KYLIESTEW ON TWITTER

github.com/kale-stew/typescript-isawesome