TypeScript in React: A Love Story



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yarn create react-app your-app -typescript

What is TypeScript, exactly?

Statically Typed

Java, TypeScript, Swift

Dynamically Typed

PHP, JavaScript, Python

Compared to JavaScript

What else?

Interfaces

Unions

```
interface IButtonProps {
  href: string;
  disabled?: boolean;
  size?: string;
  message?: string | string[];
}
```

Enums

any



Object Literal Checks

Allowing Extraneous Props







- © Create more portable code
- Write better documentation
 - X Easy refactoring
 - Increase dev productivity

TypeScript Errors

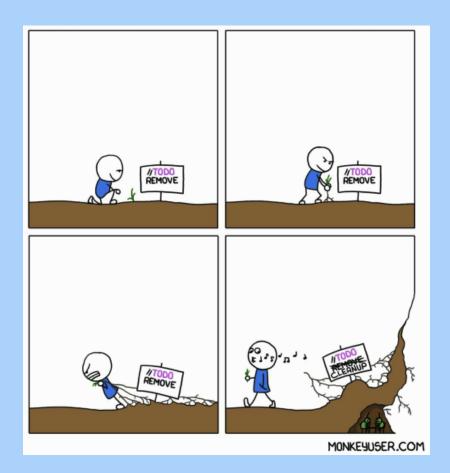
noImplicitAny

strictNullChecks

Write Better Component APIs

PropTypes vs. Interfaces

Composing Better Props and State



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
 - Easy refactoring
 - ? Increase dev speed

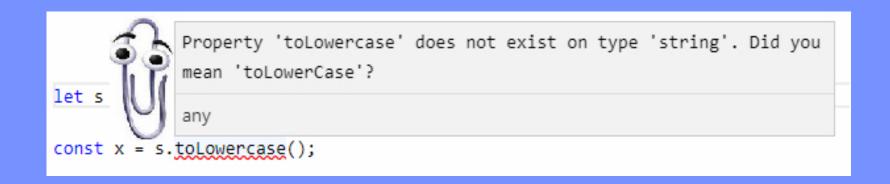


Reads 3rd party declaration files

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

THANK YOU!

@KYLIESTEW ON TWITTER

github.com/kale-stew/ts-in-react