

Migrating to TypeScript

Current State of Affairs

If you're not careful, JavaScript
can become a write-only
language

What Do We Need?

- Better tooling
 - Prevent simple mistakes
 - Improved code discoverability and navigation
 - Support for refactoring
- Language features
 - Ability to leverage newer JavaScript features

Possible Solutions

- Testing
 - Unit testing
 - Integration testing
- Tooling
 - WebStorm
 - Babel
- Static typing
 - Flow
 - TypeScript

What is TypeScript?

- Superset of JavaScript
- Optional static typing
- Features from the future

Incremental Migration

- Not an "all or nothing" proposition
- Migrate as you want to or have time

Demos

Wrap Up

Common Migration Issues

- Module imports and exports
- Arguments object
- Sequentially added properties
- And more :)

Adding static types to your code
doesn't negate the need for
testing

Toolchain

- Front end task runners
 - Gulp
 - Grunt
 - Webpack
- Linting
 - TSLint

Resources

- Official TypeScript Website
 - <https://www.typescriptlang.org/>
- Basarat Ali Syed's TypeScript Deep Dive
 - <https://www.gitbook.com/book/basarat/typescript>

Thanks!

James Churchill

- Treehouse: <https://teamtreehouse.com/jameschurchill>
- Twitter: @SmashDev
- GitHub: smashdevcode

<https://github.com/smashdevcode/boise-code-camp-2017>