JS and TS Monorepos

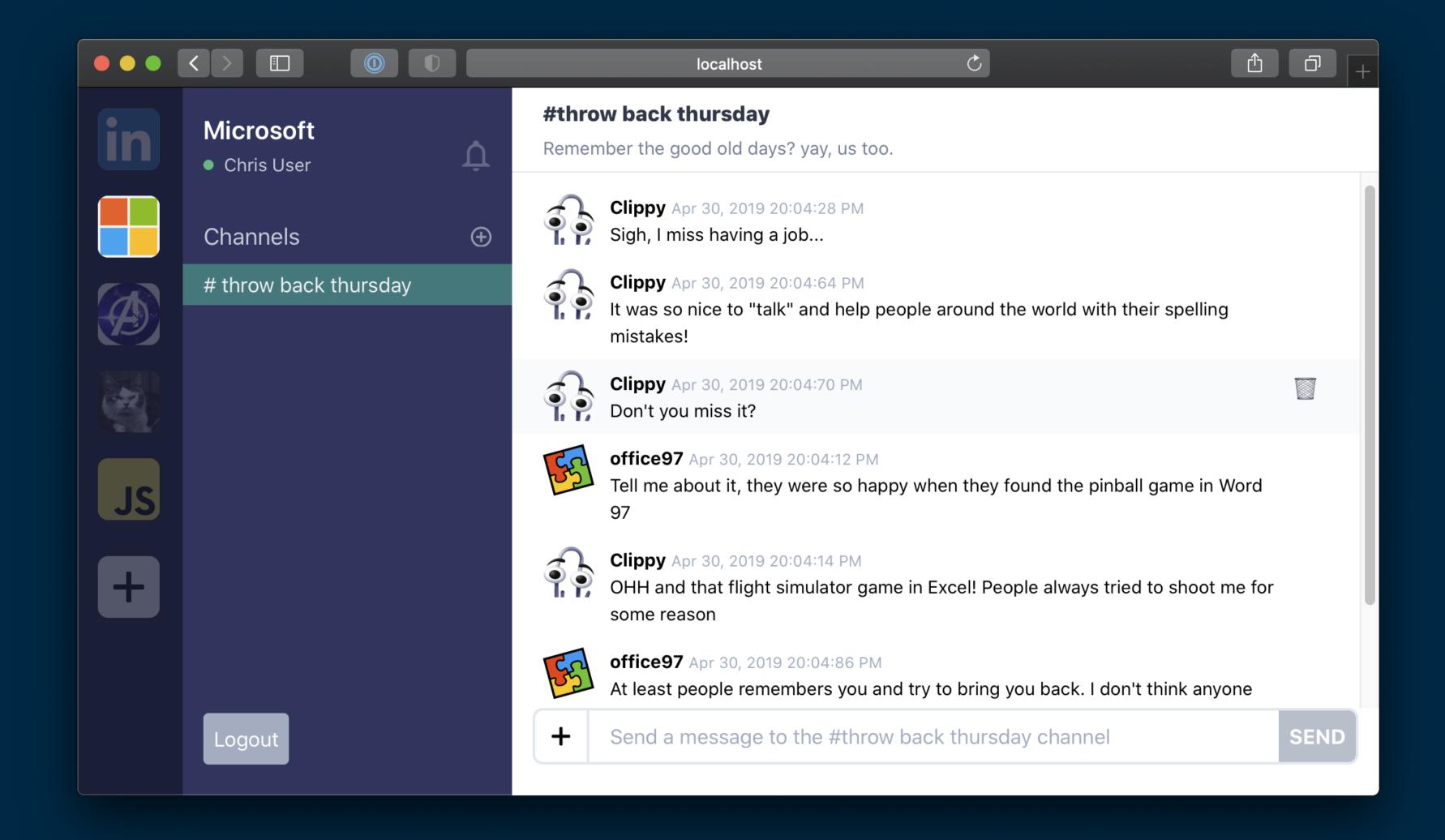


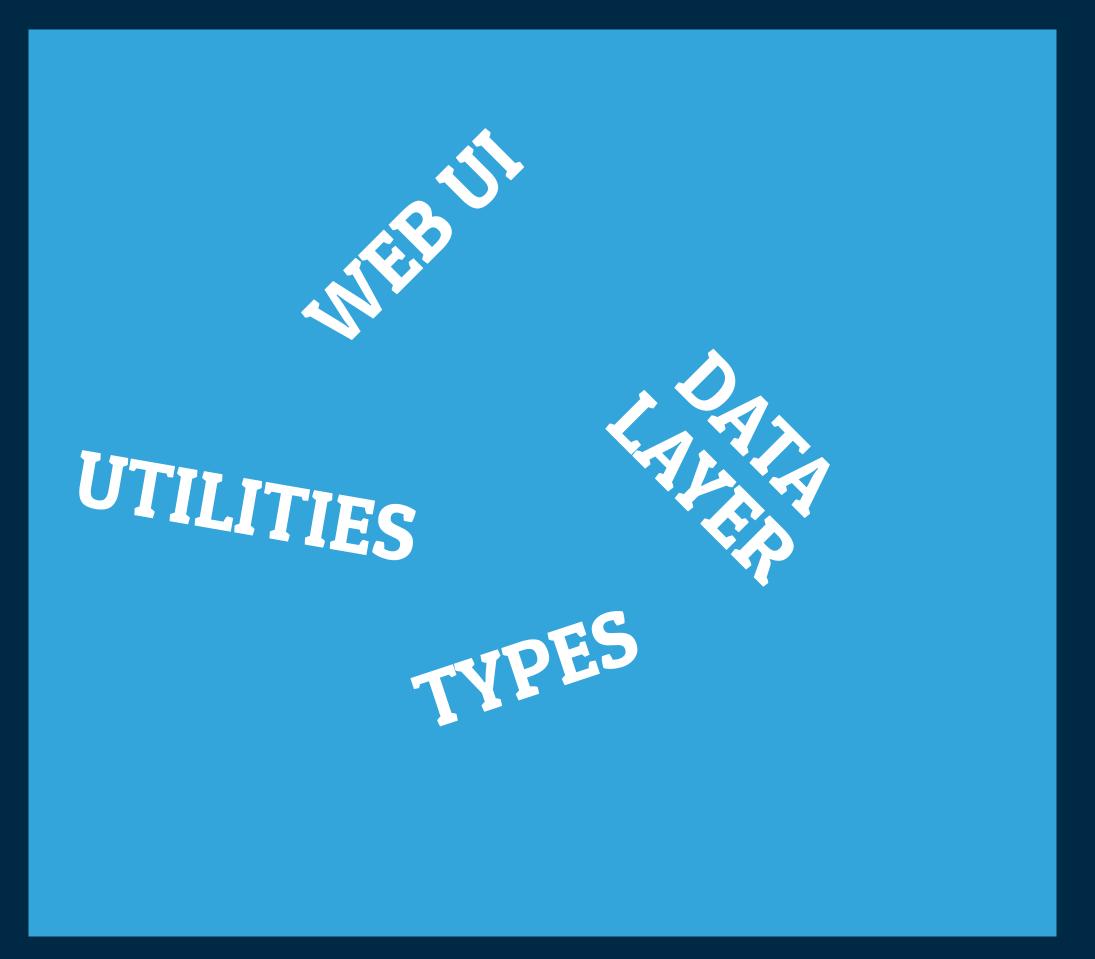
Oct 15, 2020 Mike North

What is a monorepo?

- "One repo"
- "many related JS/TS packages, co-located in a git repo"

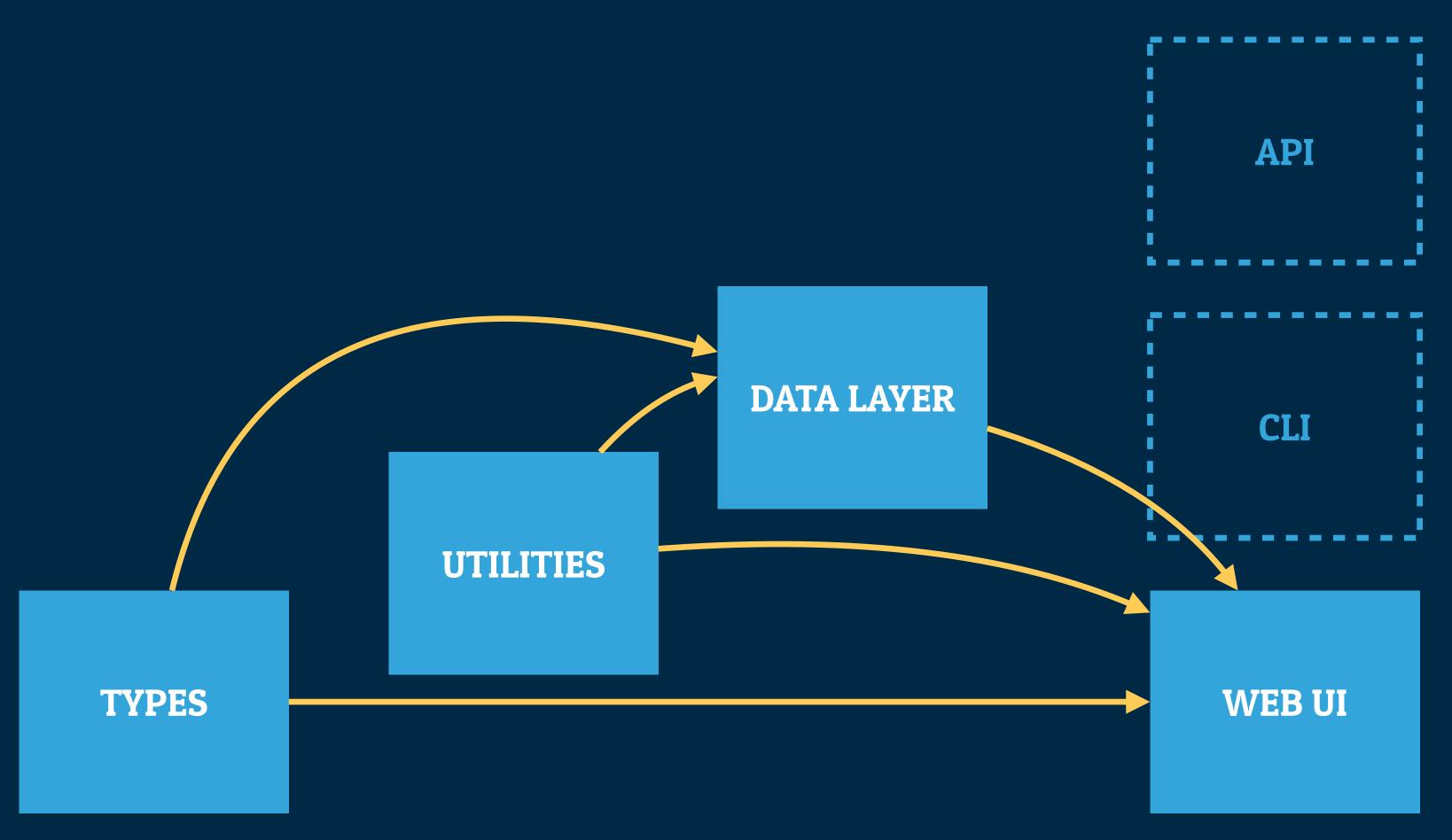






Low Level-

→ High Level



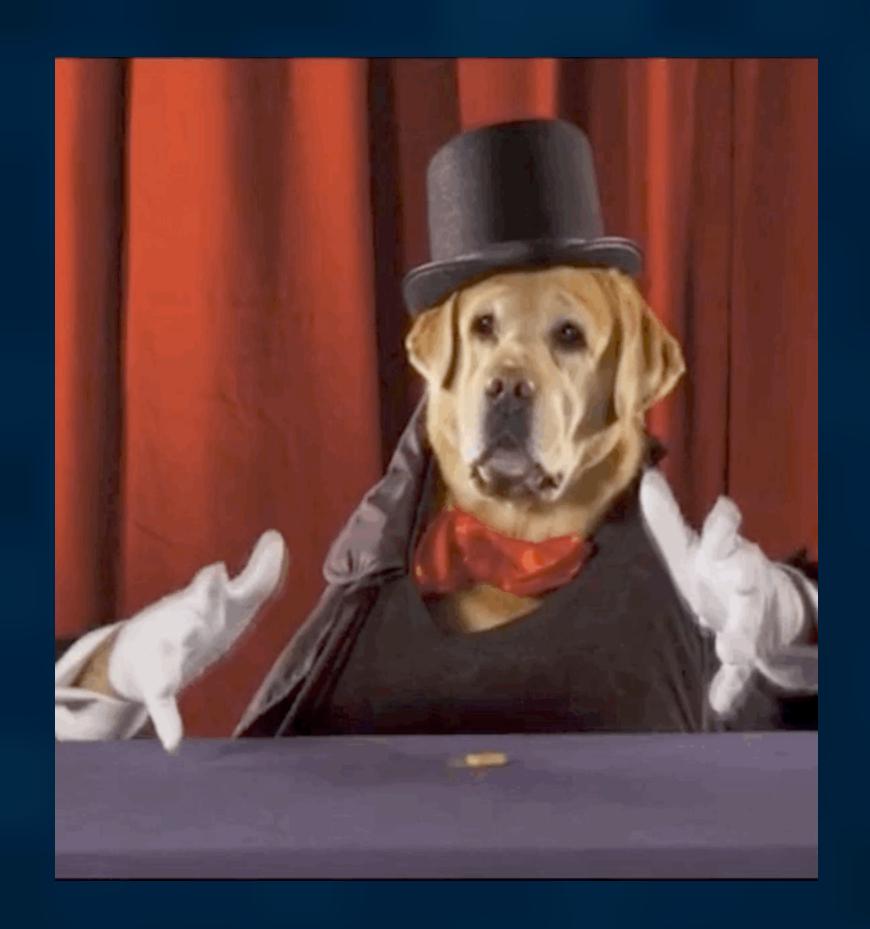
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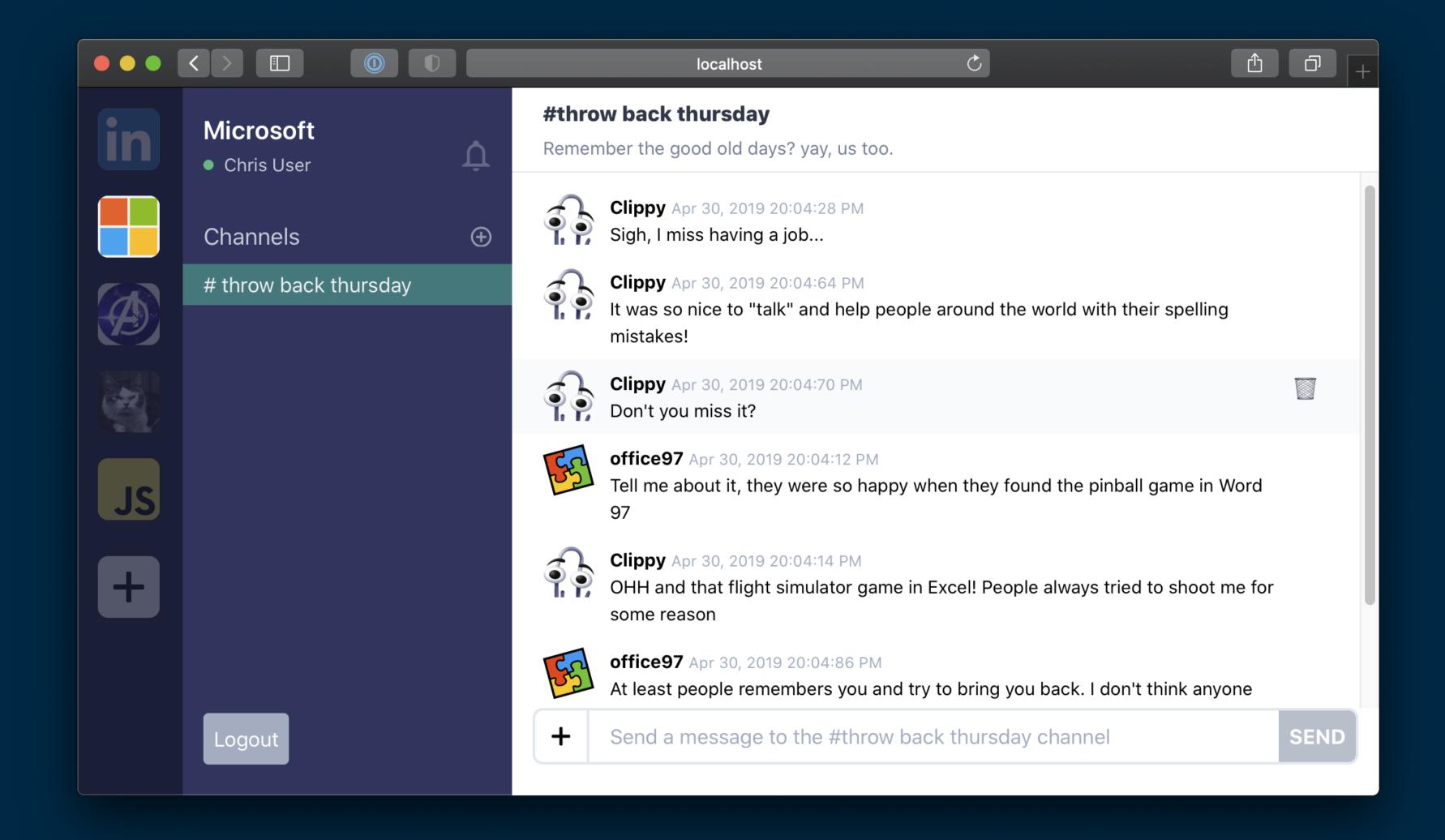
Why should I care?

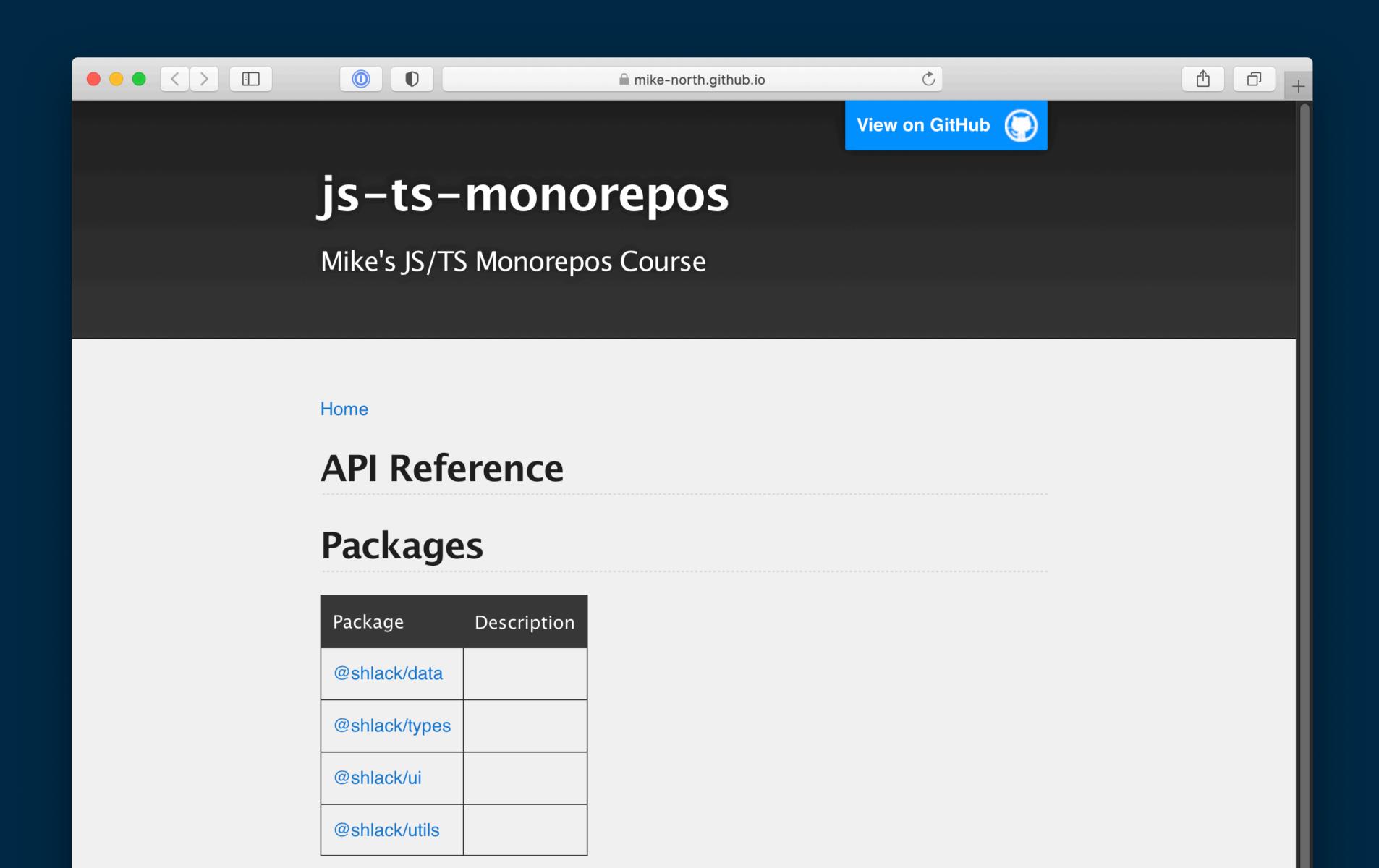
- Encapsulation tools that JS ecosystem is missing
- One commit can modify many packages, single history of a collection
- Test a family of packages together and before a release
- Dramatically reduced maintenance overhead compared to N libraries

Spoiler: not magic

- More challenging to manage than a single "monolith" repo
- Several new tools we'll need to learn
- New risks you'll need to mitigate
- ...but sometimes it's worth it







Home > @shlack/types

types package

Why does this library exist?

@shlack/types is a package containing broadly-useful types and type guards for our demo slack app. This is part of Mike's JS & TS Monorepos Course which you can learn more about by visiting the repo on GitHub

If you want to watch a recorded video of this course, look for it on FrontEnd Masters

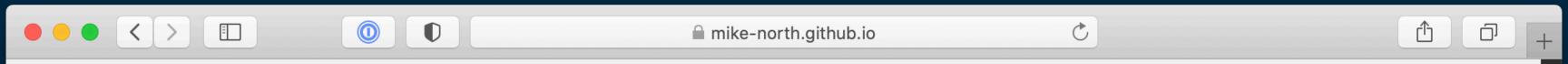


Remarks

All interfaces are prefixed with I

Functions

Function	Description
isChannel(arg)	(BETA) Check whether a given value is an IChannel
isMessage(arg)	(BETA) Check whether a given value is an IMessage



Home > @shlack/types > isTeam

isTeam() function

This API is provided as a preview for developers and may change based on feedback that we receive. Do not use this API in a production environment.

Check whether a given value is an ITeam

Signature:

export declare function isTeam(arg: any): arg is ITeam;

Parameters

Parameter	Type	Description
arg	any	value to check

Returns:

arg is ITeam

Example

Here's an example of how to use this guard

Agenda

- Yarn workspaces
- TypeScript composite projects
- Build scripts for Monorepos
- Lerna
- API Extractor
- "Package private" and "Project private" interfaces

- Hassle-free "publish to npm" testing
- Versioning strategies
- App and Library Use cases
- "Wrapper" packages
- Private "dev utility" packages

http://bit.ly/mon-o

WORKSHOP PROJECT AND NOTES (SETUP INSTRUCTIONS ARE IN THE README)