# Read state Management Libraries and How to Choose

- . State management = How you stone the state + How you change it
  - Shrage: 1) keep vauables in local component shake
    - 2) Noep the data in a stone, using alismony live Redux, Recal, Maby, or zustand
    - 3) neep them on the window object gladely

Same framework, like svelpe and We, "watch" for Kings, and update accordingly. Rock doesn't "watch for changes" and magniculty re-render. You (or samething) needs totall it to dot that.

- 1) w/ vsestate, vseredon, a this. set state, react will re-newder when you call only the setter functions.
- 2) if you reap the data in Redux, 766x, Read, or save other store, then that stone will tell React when scruething has changed, and trigger the re-newer for you.
- 3) if ou window, june to tell next to up date of ten jure days that data.

over you get fost 3-5 uses but earls in a single component, things are possibly gains to get hard to north home of. Especially if those bits of state agent on early other.

Shake agent on early other.

A re Reducer con oney held one value, Suit it's more common for hat single value to se an affect containing much jle values.

Avaiding prophulling w/ React Context.

Downside: Jerfenneauce (unless you're very confue)

the houser's value prop charges. If the value is an abject containing so different bits of state that charge preparity and i've defendantly, every time one of those relies sharpes, every component that was day of them would re-newer.

Grandic: stone small duens grolated data in each Context and spit up data ceross multiple Contexts

#### Redux

- Finetional style, immbasility
- Swall Swidle Size
- Drawbock: Heavey reliance on immutaselity can mone it consersonce to mife reducers. This is muitifated by addry the luner labrary or vsry Mederx Toolmit (which includes luner).

Most (Managing state in a truly "recetive" may)

- ulure Redux is allowert being explicit and fuctional, Mobolit takes the appointe opproach
- It's Some ou the obsence of determine.
- you'll ereate our observable dater under, many gar comforments as "deservers" of flat dater, and Mosx will automatically their which dater they coess and re-render them when it changes.

- -layer ou top of Most for a realise state here.
- The model ever have n'ens (cauquet poperties) and ochàus (set fer furchaus)
- If the changing abovery spidly, MST might wit be the best fit.

## Recoil

- Its API loaks live a combination of react's usestate and Context APIs.
- By neeping tren of calls to use Recarl Stake, Recarl Neeps track of which components use which atomes. It can re-new analy the components that "sussenise" to a piece of Julia when that Julia changes.

## recet quein

- Daka feteluly library

#### Xshale

- state medines and state charts

More libraries: Zustourd and early-jeasy (and botai)