Creating Abstractions

Compound Components FTW 🏆

So what is an abstraction?

Definition

"something pulled or drawn away"

source: www.merriam-webster.com"

Why and when do we use Abstractions 🤔

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goal is to simplify the code base by making simularity in features reusable

when lets look at the pro's and cons first

- pros:
    - less code duplication
    - incase of using typescript, less typing
    - less tests writing
    - makes components manageable
    - the implementation is isolated in its one component and can be used on many places in the app.
- cons:
    - using them to early can easy overcomplicate a simple implementation.

      sometimes it's just easier to just write the implementation on the page or component where its needed

Folder Structure

```
src
 - components
 - screens / pages
```

make a composition and use it as an implementation on the page where you want to render and pass props. and sometimes lots of props 🤯

add and example

KCD course advanced patterns

- context module
- compount component
- prop collections and getters
- state Reducer
- control props

Inversion of Control

compound components

- When multiple components work together to have a shared state and handle logic together, they are called compound components.

- React.cloneElement, React.Children.map
- use state with useContext

https://codesandbox.io/s/modern-dust-s6qnm