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React Patterns

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At Block.one we are using the classic `view-container` paradigm alongside a few other types for better code structure.

Types

- **View** - aka simple components, concerned only with displaying static content(received) including:
  - static content received via props
  - conditional rendering logic
  - translations
  - custom styles (using emotion styled and emotion css)
- **Container** - concerned with logic, data, and events
  - can receive data (from parent components, hooks or stores)
  - can store and manage internal state (passing down props to views and getting data back from them)
  - can send data upwards (to hooks and then servers)
  - can define and trigger events that affect higher state (ex. redux store)
  - is built upon one or more views + its own logic
  - holds only small amount of custom styles
- **Hooks** - concerned with data fetching, formatting and sending
  - can receive and retrieve data from one or multiple sources
  - can format data to be passed further down the line
  - can format and send data up to servers
  - heavy formatting which works best via pure functions should be done in hooks and hooks related functions instead of containers.
- **Layout** - a generic page or page section layout
  - used across multiple, similar structured components, usually pages or containers
  - prevents developers from having to copy-paste very similar structure across multiple components with no added benefit
  - when the layout of 2 or more areas diverge significantly, the layout can be split.
- **Page** - root component in the react-router hierarchy
  - any `<Route>` should point to a page component and only a page component
  - the only place to access url parameters which should be passed down to other components

```
const LoginPage = lazy(() => import('./pages/LoginPage'))
...
<Route path={ROUTES.login.path} component={protectRoute(LoginPage)} />
```

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