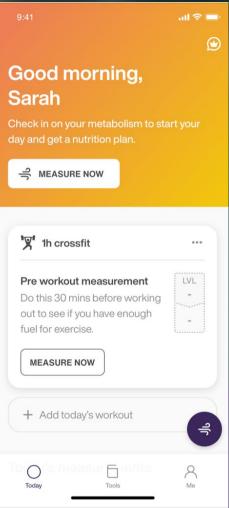
Flutter State Management

June 2021 - Ariel Ben Horesh @arielbh





Hello Lumen, Hello Flutter and Hello BLoC?!

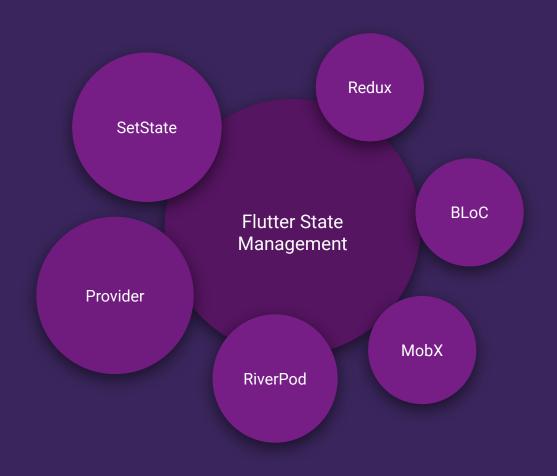


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Mobile Architect

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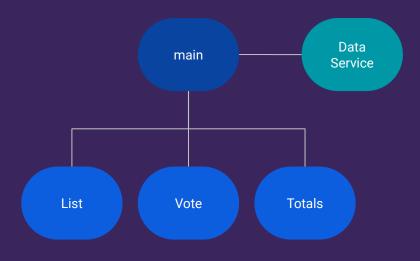


rumen°

"... Democracy is the worst form of Government except for all those other forms..."

setState

• Triggers rebuilding on StatefulWidgets





LUMen®

setState

Pros

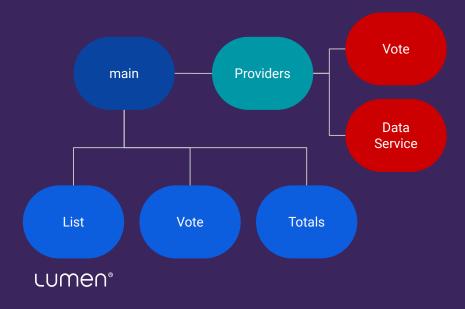
- Simple to use
- No need for a package
- Great for ephemeral state

- Not the perfect tool for app wide state
- Hard to maintain and Complex when sharing state between widgets.



Provider

- Based on inheritedWidget.
- Used with Consumer to rebuild after changes.





Provider Pros

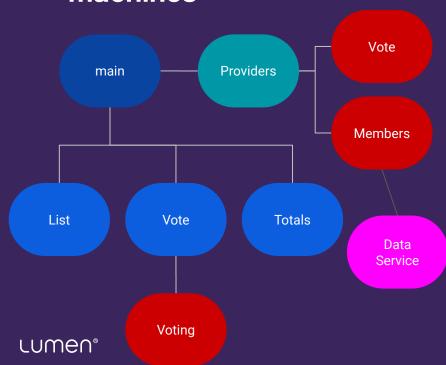
- Allows Dependency Injection
- Allows sharing state between widgets

- Depends on BuildContext
- Cumbersome to implement
- Manual notifiers



BLoC

Event driven state machines





BLoC

Pros

- Same pattern for local and app state
- Clean
- East to test

- Prone of misuse
- Hard to separate UI concerns
- Generate boilerplate

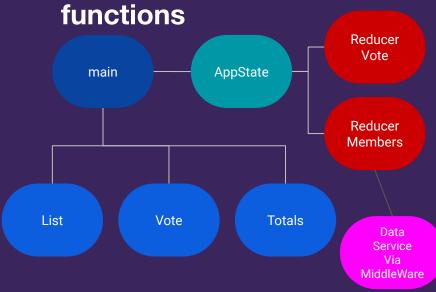


Redux

Lumen®

- AppState Single point of truth
- Immutability of state

• State changes via pure





Redux

Pros

- Popular
- Unyielding structure
- Immutability
- Debugging

- Drives you towards single yet coupled 'AppStore'
- Asynchronous is difficult
- Lots of boilerplate code



Get-It

Pros

Can be used as DI Container

 Doesn't depend on BuildContext

Cons

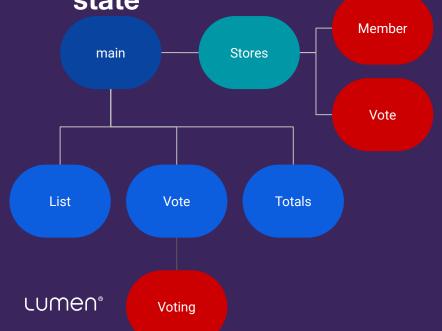
- Needs another lib for actually being a state builder
- Local State is hard to isolate
- Buggy

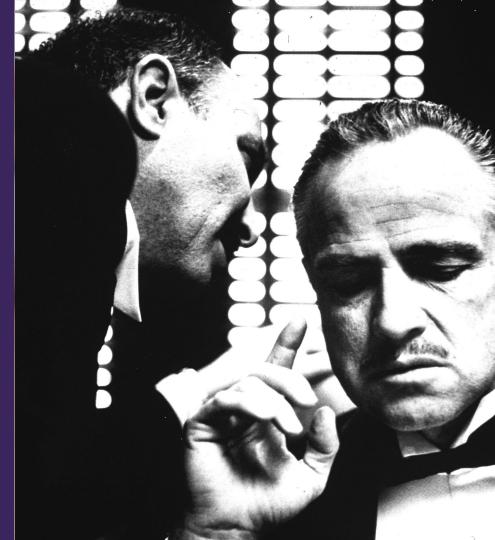
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MobX

 Glue observers with observable stores + actions that manipulate state

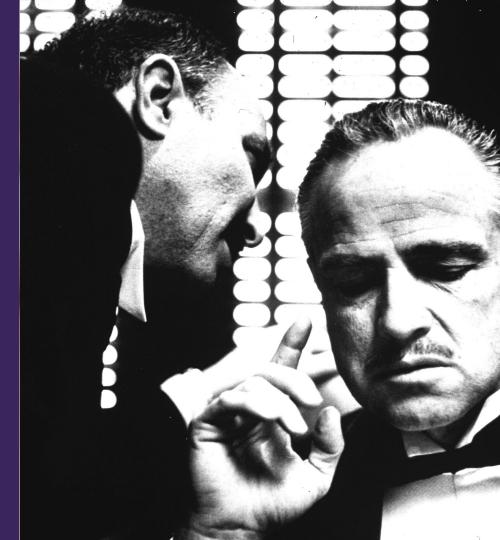




MobX Pros

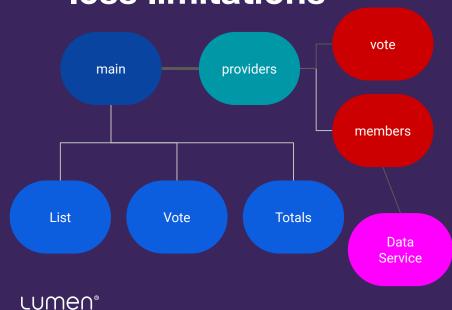
- Expressive with Metadata
- Reduces boilerplate code

- Code Generations is not everyone's cup<T>
- Observer feels like voodoo



Riverpod

Friendlier"Provider" with less limitations





Riverpod Pros

- Improved "Provider" without BuildContext
- Easier to test

- Need to use
 ConsumerWidget for most advanced features
- Docs and examples



What did you like the best?

- 1. setState (122K)
- 2. Provider (3.7K)
- 3. BLoC (7.3K)
- 4. Redux (1.5K)
- 5. MobX (1.9K)
- 6. RiverPod (1.7K)



Thank you.

@arielbh



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