

w e n e e d t o t a l k a b o u t

state

G i t H u b

joaomilho/elm-presentation





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30 יוני



What would happen if React stopped supporting the state field in a component? I was always against putting state in a component - but did allow myself to think differently of the top levels components. Then this guy writes this post on Reddit and it makes sense to me. State field is a nice way to get you started with react-only app. But that's it. Pretend you cannot access `this.state` / `setState` from a component. Now what? Flux. Actions and stores. The component's props contain callbacks passed from the parent (which are actually flux Actions) and the necessary data passed from the parent (which is actually fetched from flux Stores).

What do you think?

State is an antipattern • /r/reactjs

A bold affirmation, I know, but maybe, when you reach the end of this post, you'll agree with me. So I've been using React for more than a year...

REDDIT.COM



שתף

הגב

אהבתי

Benjamin Gruenbaum אוהב את זה.

50 מתוך 65

הצג תגובות קודמות



Mike Kidder

@mikekidder



Following

@joaomilho @markdalgleish @dan_abramov I
keep imagining that @elmlang is really JS
ES9/ES10 in disguise. :)

FAVORITES

4



1:56 AM - 31 Jul 2015



F R P

UI = *c o m p u t e r (w o r l d ())*



F R P

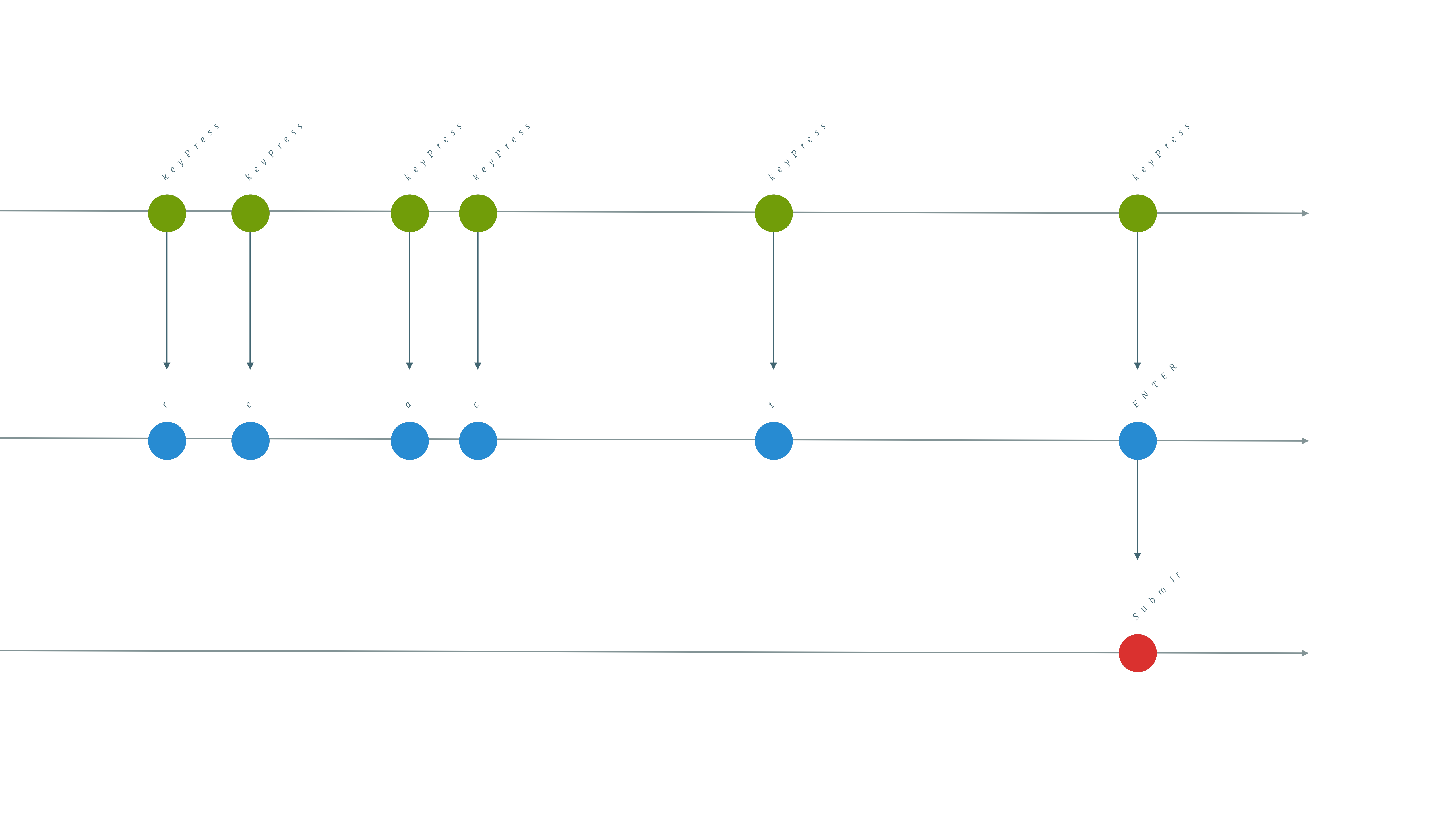
Signal system & Architecture



F R P

Signal system





display

<~ Window.height

~ Window.width

~ Mouse.x

~ Mouse.y

~ (Time.every Time.second)

display : Int → Int → Int → Int → Time → String

F R P

Architecture



F R P

Model View Update



c o m p u t e r

view ●

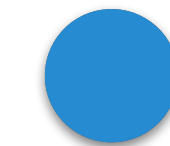
● **update**

●
signals

w o r l d

c o m p u t e r

view



update

t r i g g e r s

signals



w o r l d

c o m p u t e r

view



n e w m o d e l



update

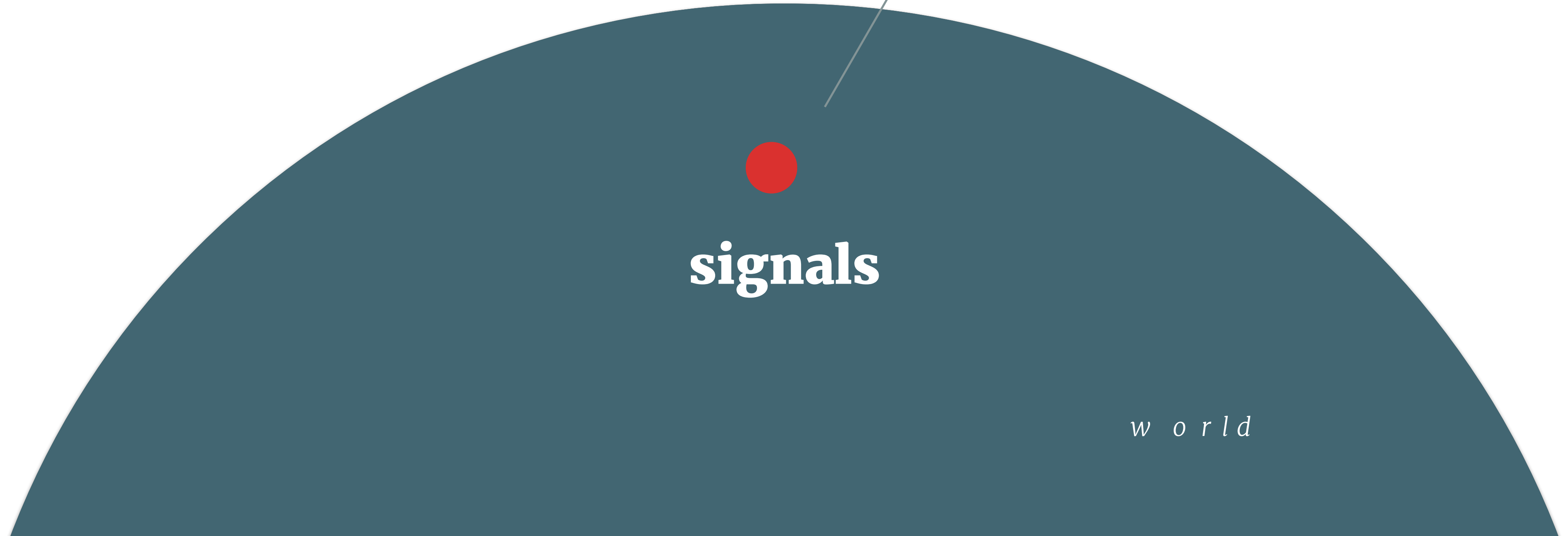
t r i g g e r s



signals



w o r l d



```
module Component where
```

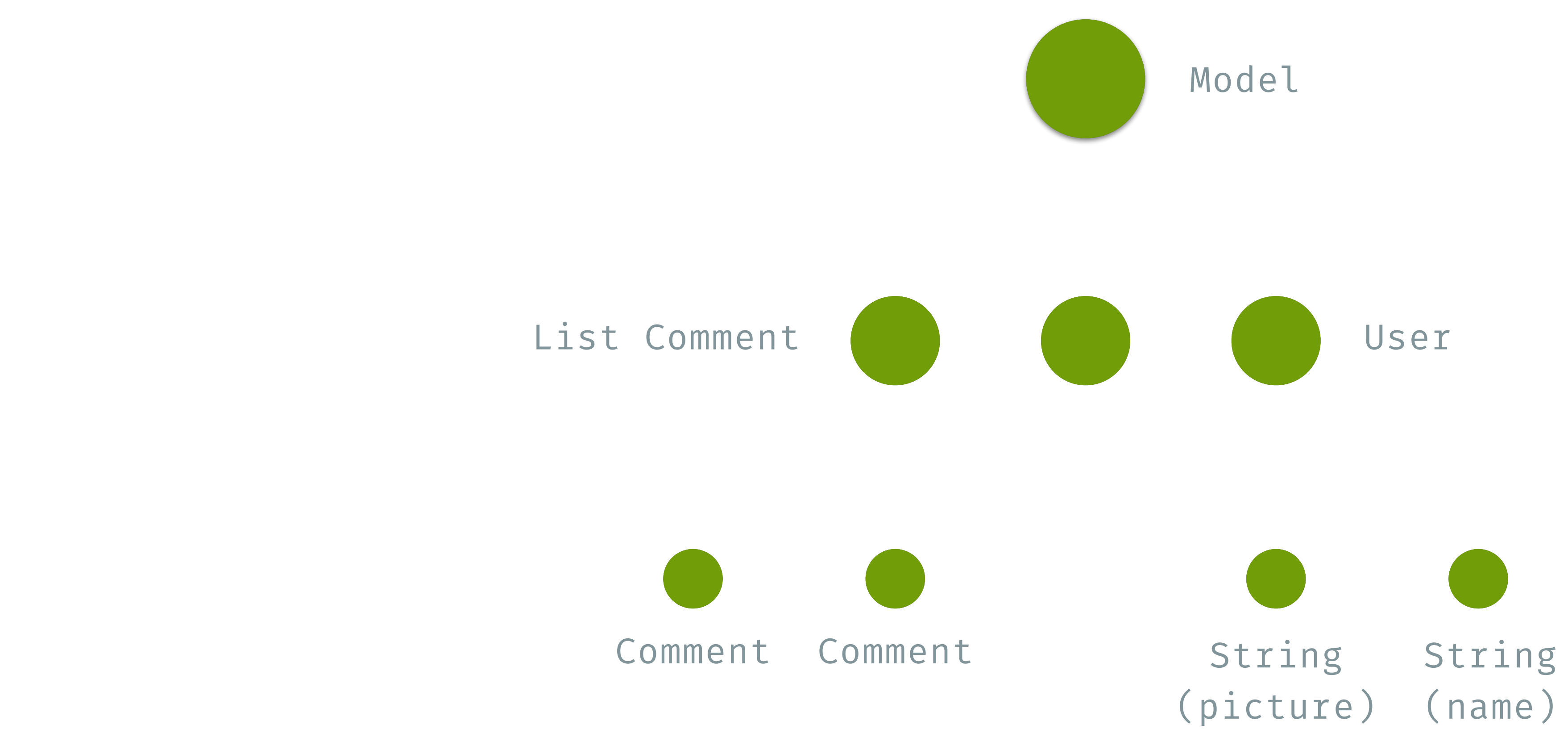
```
type alias Model = {...}
```

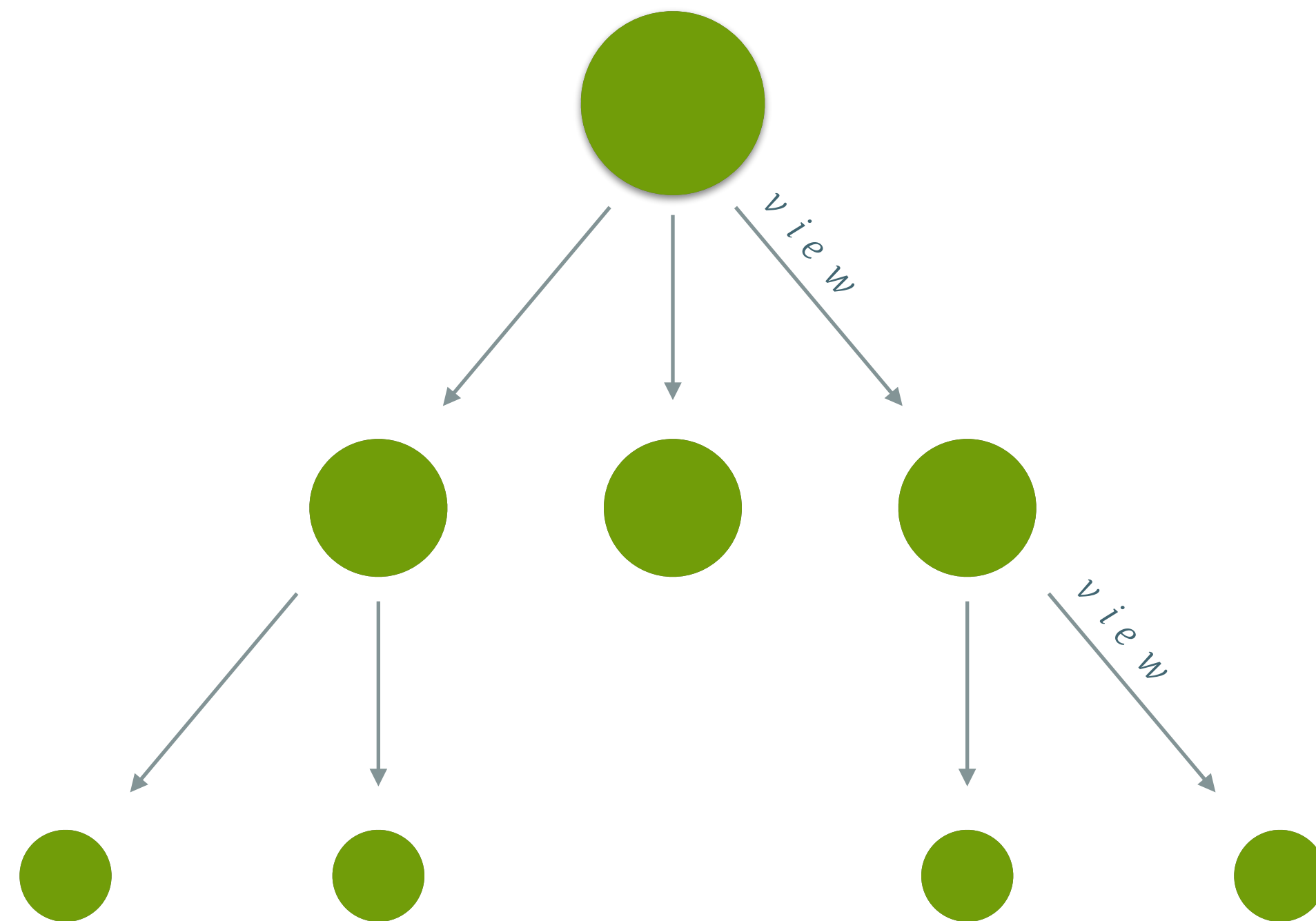
```
model : Model
```

```
update : Action → Model → Model
```

```
view : Address Action → Model → Html
```

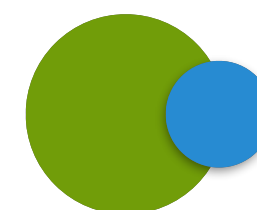
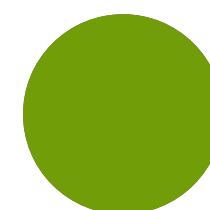
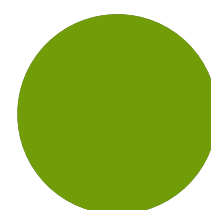
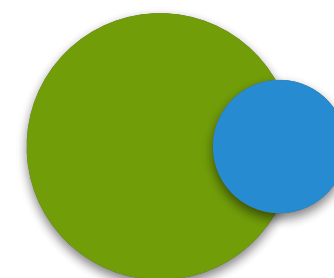
```
type alias Model = { user: User, comments: List Comment }
type alias User = { name: String, picture: String }
type alias Comment = { comment: String, created_at: Date }
```



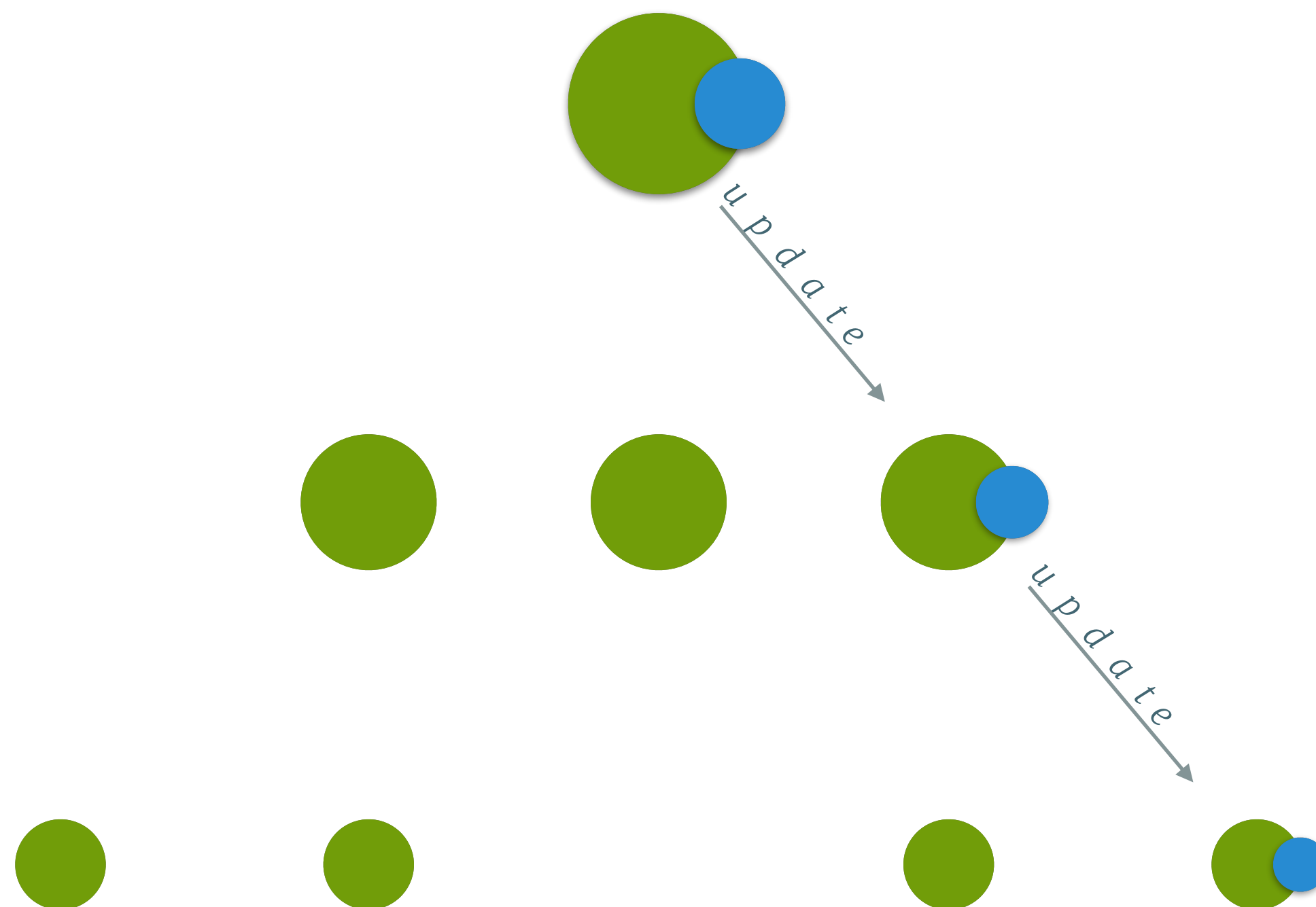


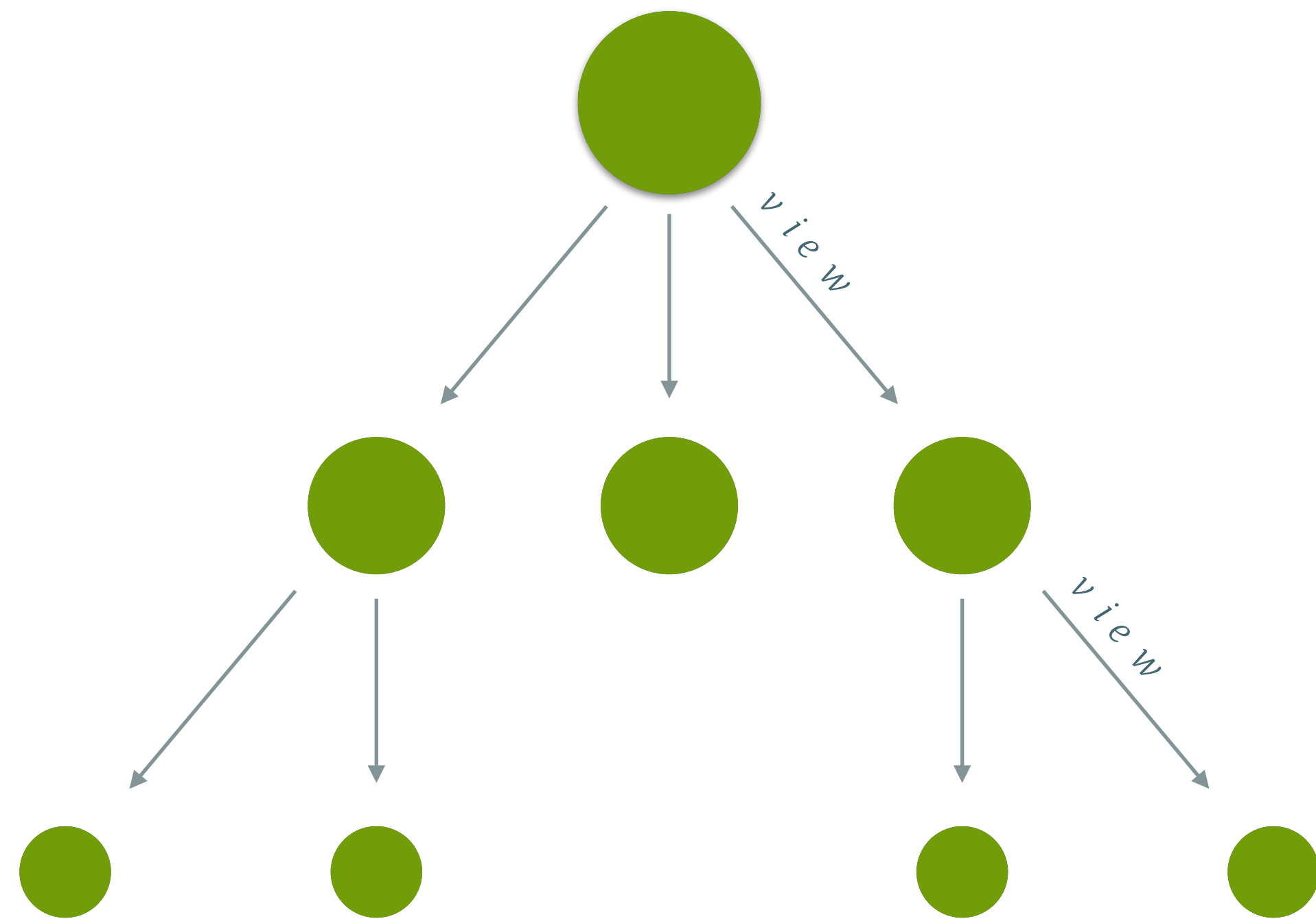
● signals

triggers



● signals





S o ...

**Composition must
care about data**



R e d u x p r i n c i p l e s

Single source of truth

*T h e s t a t e o f y o u r w h o l e a p p l i c a t i o n i s s t o r e d
i n a n o b j e c t t r e e i n s i d e a s i n g l e s t o r e*

State is read-only

*T h e o n l y w a y t o m u t a t e t h e s t a t e i s t o e m i t a n
a c t i o n , a n o b j e c t d e s c r i b i n g w h a t h a p p e n e d*

Mutations are written as pure functions

*T o s p e c i f y h o w t h e s t a t e t r e e i s t r a n s f o r m e d b y
t h e a c t i o n s , y o u w r i t e p u r e r e d u c e r s*

F i n a l l y !

Q & A

