```
U0LPMPL2U : Could you have: ```
type Call
 = HungUp
| Active PauseStatus HoldStatus
U23SA861Y: also works
U23SA861Y: you can limit impossible states, but impossible state transitions need to be encoded into the update
U37HUSJ4R: interesting
U37HUSJ4R: so what would `PauseStatus`?
U0LPMPL2U : ```type PauseStatus = Paused | Unpaused
type HoldStatus = OnHold | Live
U23SA861Y: bools would also work there with type aliases
U23SA861Y: the named constructors are a bit more descriptive however
U0LPMPL2U: The type gives you extra safety though
U0LPMPL2U: because you can't accidentally pass the hold boolean when you meant to pass the paused boolean
U0LPMPL2U: You might also model this as:`
type RecordingStatus = Paused | Recording
type Call
 = HungUp
 | OnHold RecordingStatus
 | Active RecordingStatus
U0LPMPL2U: That way the tags on `Call` represent all the call states, each of which may or may not have an
associated `RecordingStatus`
U37HUSJ4R : very interesting!
U37HUSJ4R: guess to make it more confusing though: wink: what happens if I need the statues to be `Maybe`?
U37HUSJ4R: because we don't always know the state of the call
U37HUSJ4R : eg its loading
U37HUSJ4R: or maybe just add a constructor for `Loading`?
U0LPMPL2U: yup
U37HUSJ4R: is there a point you'd think this is getting silly though? for example: \ | Active PhoneNumber PauseStatus
HoldStatus TransferStatus SomethingElse More`
U23SA861Y: at some point I might drop to a record instead of a list
U0LPMPL2U: `HoldStatus` and `TransferStatus` are both tied to call state, not an active call right?
U23SA861Y: probably at anything more than two
U37HUSJ4R: no, it's an active call
U0LPMPL2U: Hmmmm, I was thinking something like:
type Call
 = HungUp
 | Loading
  OnHold RecordingStatus
 | Transfer
 | Active RecordingStatus
U0LPMPL2U: All of these are different states that a call could be in
U37HUSJ4R: yes
U0LPMPL2U: I'm thinking `RecordingStatus` only makes sense for `Active` calls
U37HUSJ4R: I'd agree
U37HUSJ4R: I think that last type is pretty much spot on
U0LPMPL2U: You can think of it as "a call can be in one of N states, some of which have extra data associated (such
```

as recording status)"

U37HUSJ4R: thank you for the help

U37HUSJ4R : great to be able to chat through these questions U0LPMPL2U : I'm glad we found a nice solution :slightly_smiling_face: