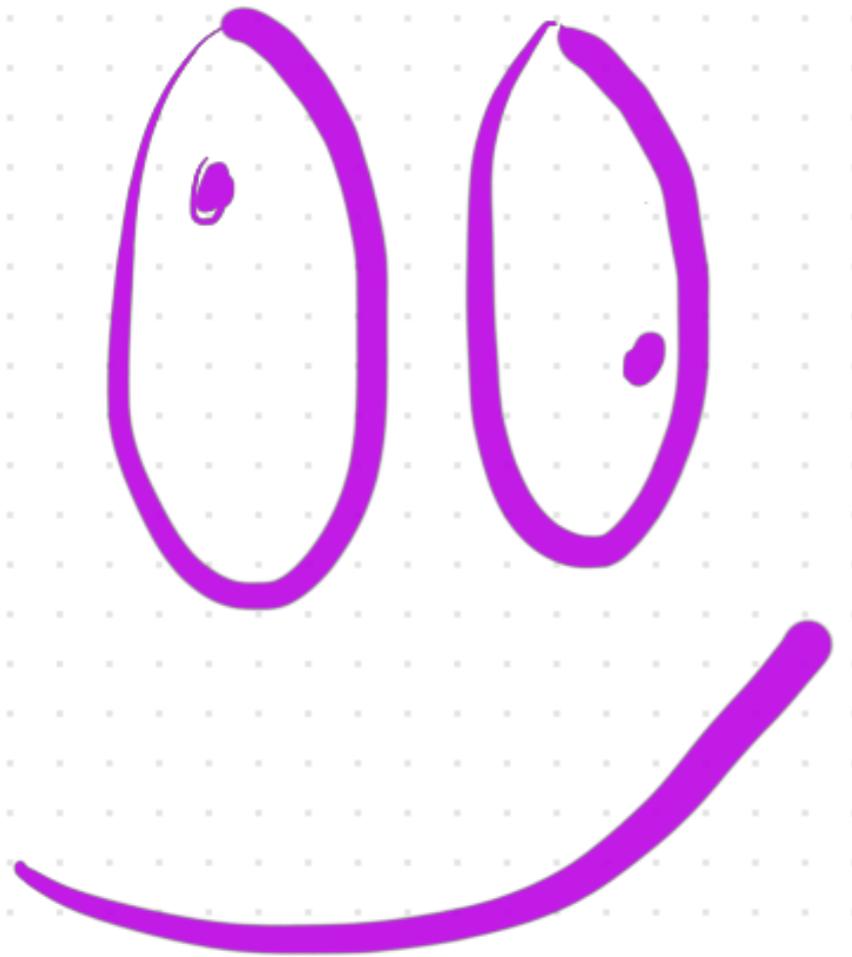
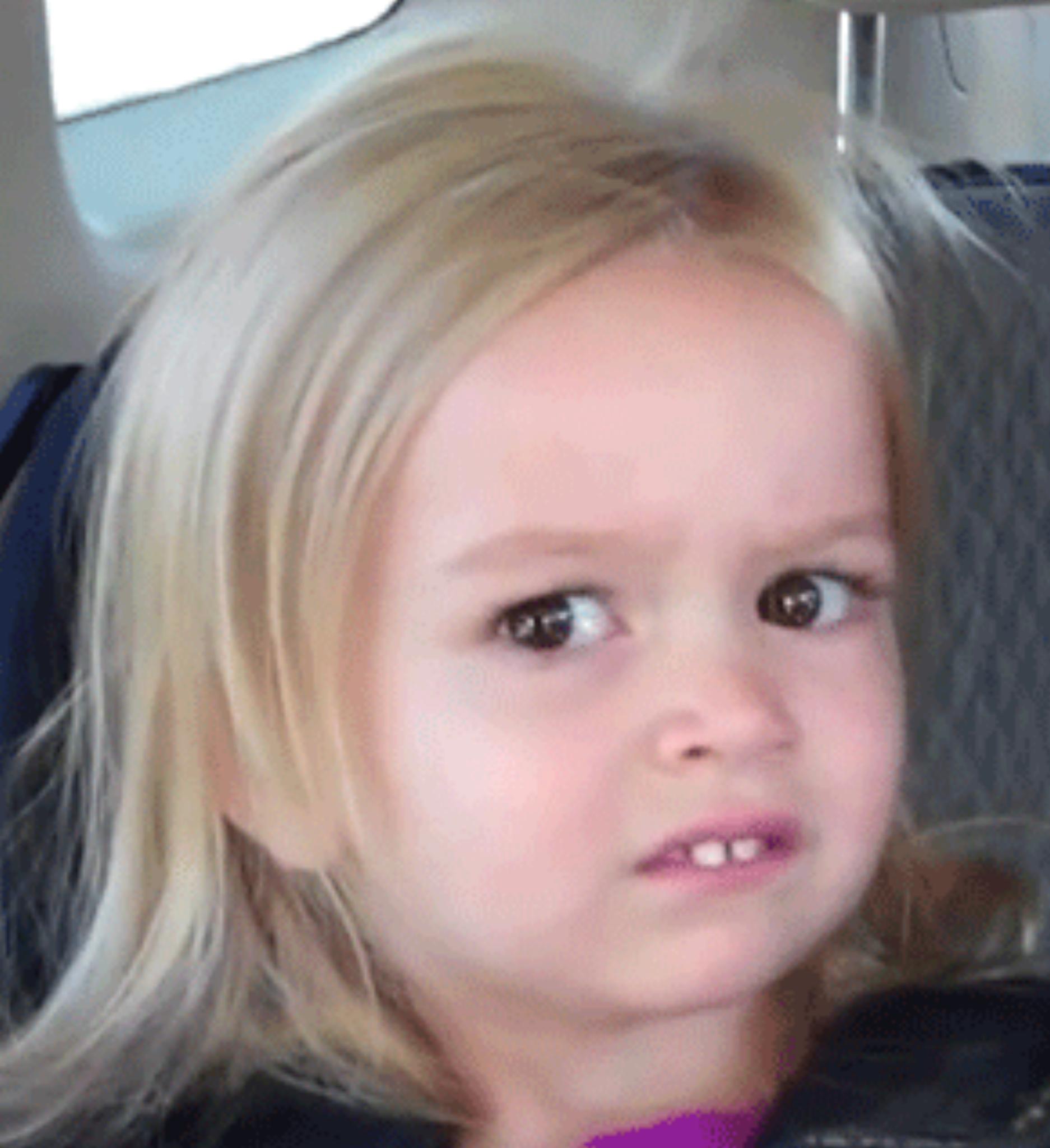




the *Sagas*  
cookbook



**Rubén Sospedra**  
**Software engineer**  
**@sospedra\_r**



Sagas are

long live transactions

 qsync  
transactions



```
const pool = function * () {
  while (true) {
    const payload = yield call(api.request)
    yield put(actions.success(payload))
    yield delay(ms('1s'))
  }
}
```



CORED

VS



COMMAND

```
const coreo = function * () {
    yield call(api.payment)
    yield spawn(api.email)
    yield spawn(api.flyers)
    yield spawn(api.feedTheCat)
}
}
```

```
const command = function * () {
  const [user, address] = yield all([
    call(api.user),
    call(api.address),
  ])
  const cart = yield * coroutine.cart(user, address)
  yield fork(coroutines.payment)
  yield put(actions.success(cart))
}
}
```

```
const batch = function * (channel) {
  while (true) {
    const firstAction = yield take(channel)
    const stack = yield flush(channel)
    const actions = [firstAction, ...stack]
    const lastAction = last(actions)
    const task = yield fork(coroutine, lastAction)

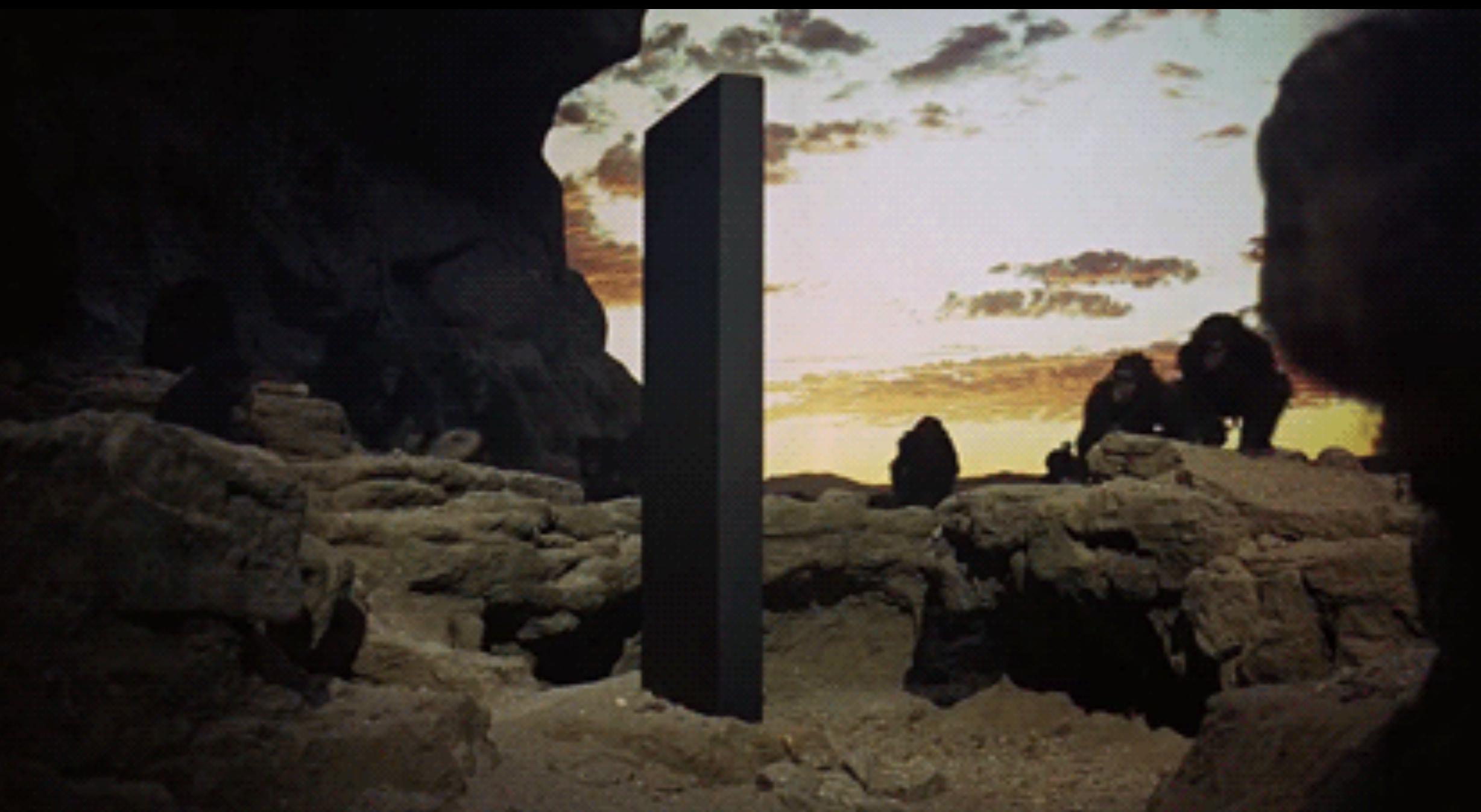
    yield join(task)
  }
}
```

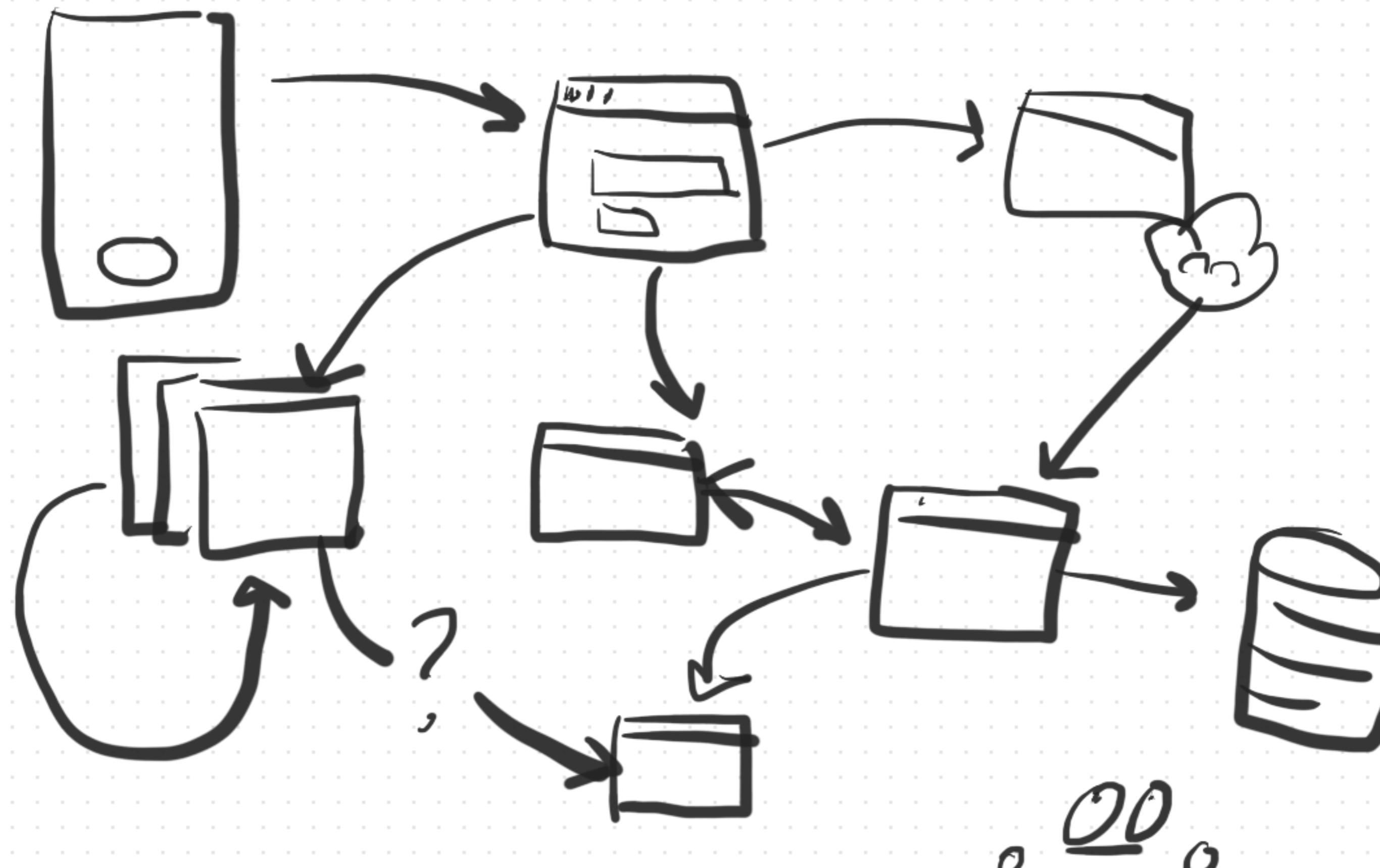
- **take**
- **takeMaybe**
- **takeLatest**
- **put**
- **call**
- **apply**
- **cps**
- **fork**
- **spawn**
- **join**
- **cancel**
- **select**
- **flush**
- **channel**
- **delay**
- **throttle**
- **debounce**
- **retry**
- **race**
- **all**
- **task**
- **buffer**

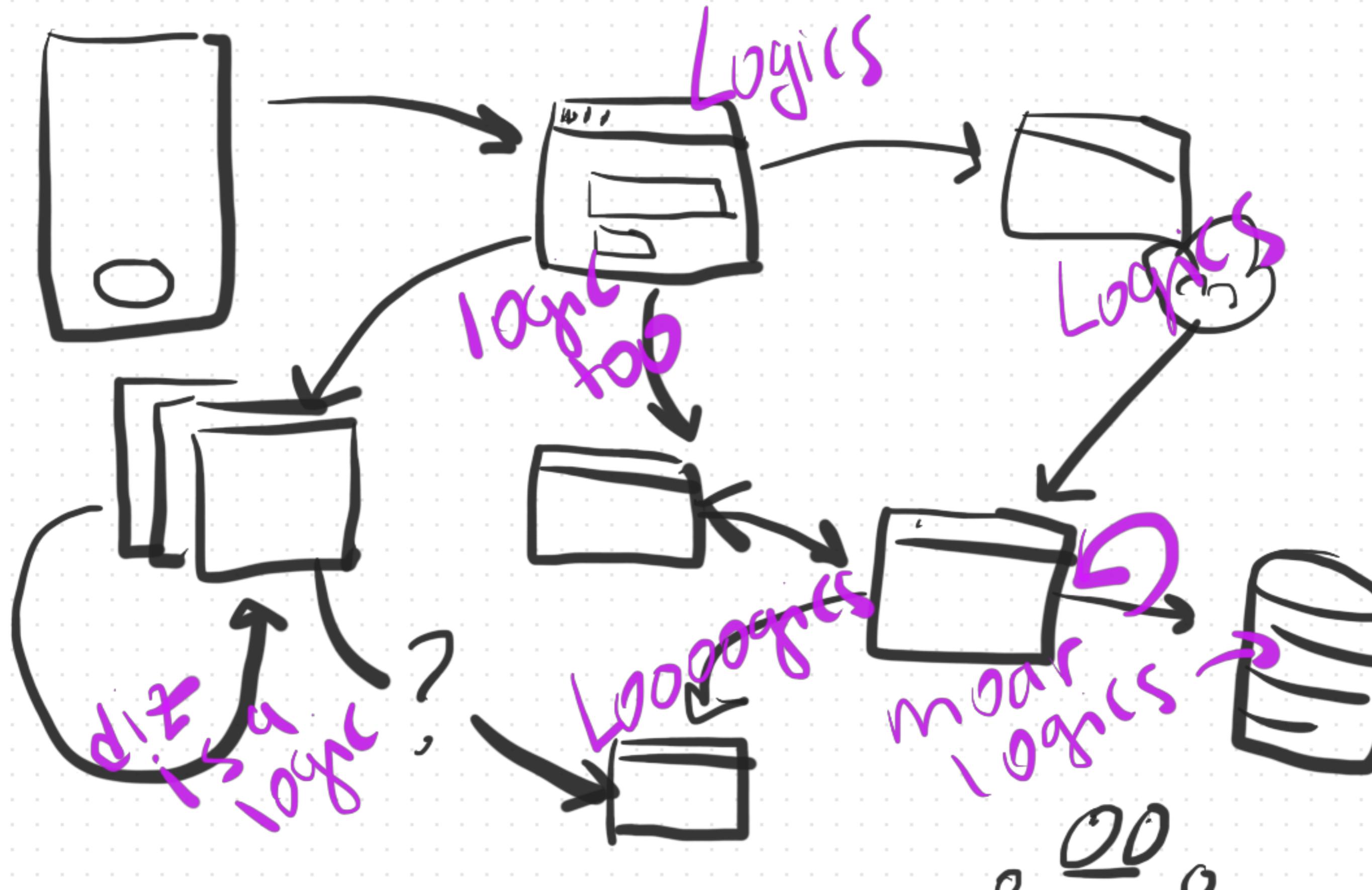


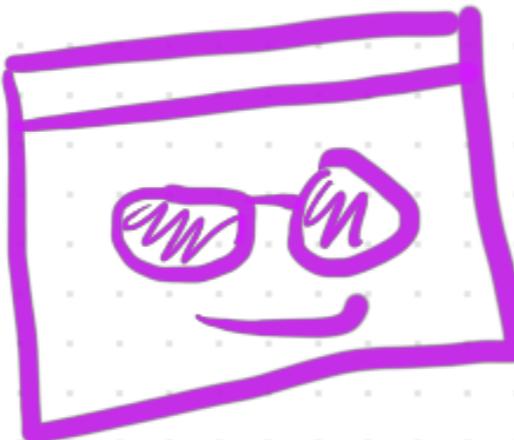
- **Long Lived Transaction**
- **Sequence of sub-transactions**
- **Manage sagas declarative or imperative**
- **Many small patterns**

~~copy me~~  
distributed  
transactions



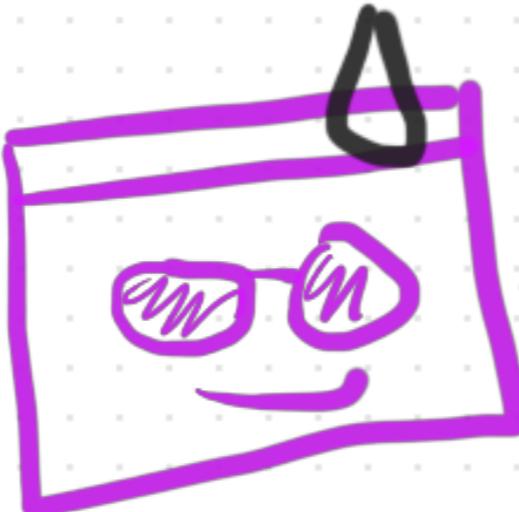




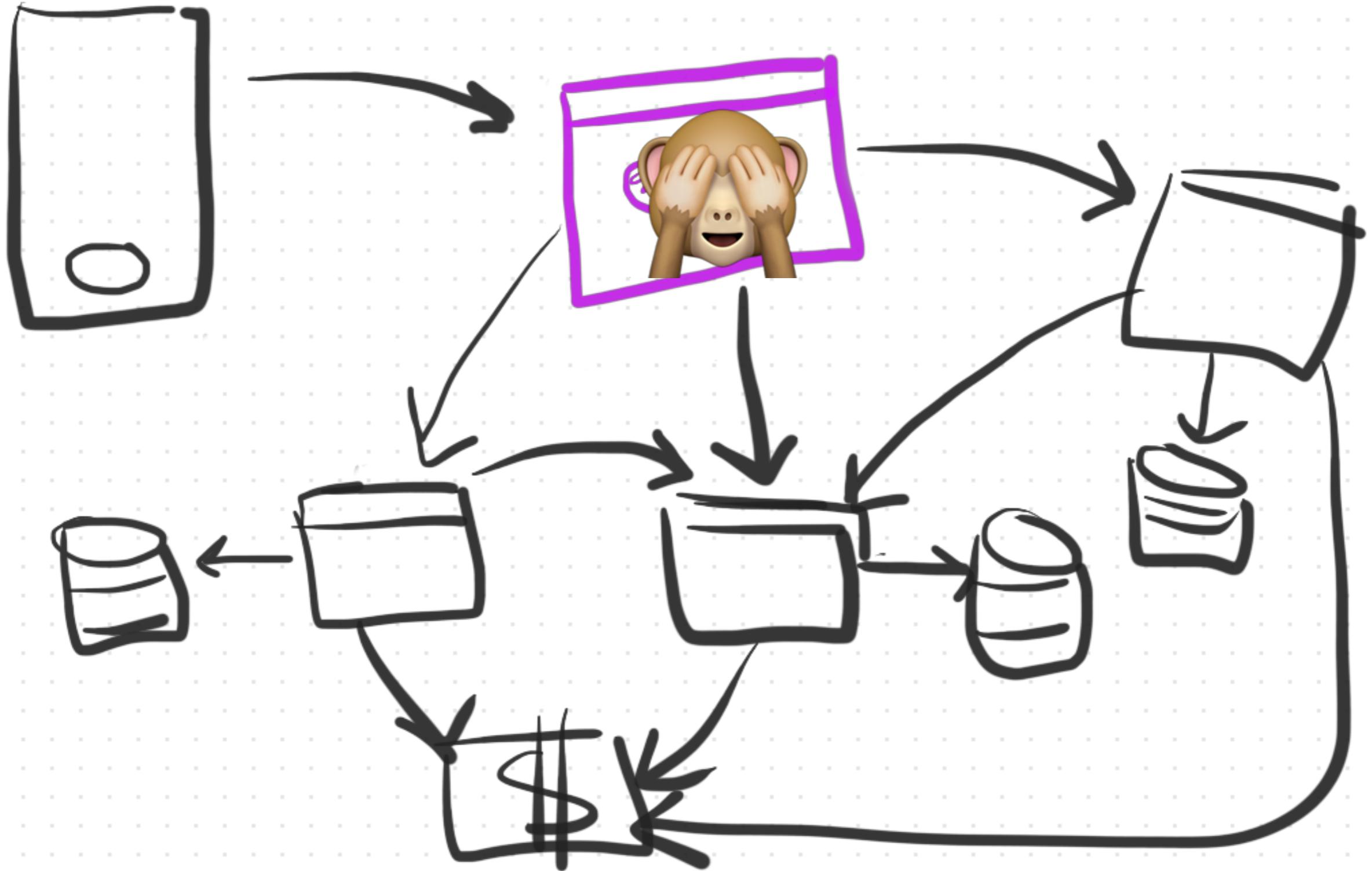


the  
truth)

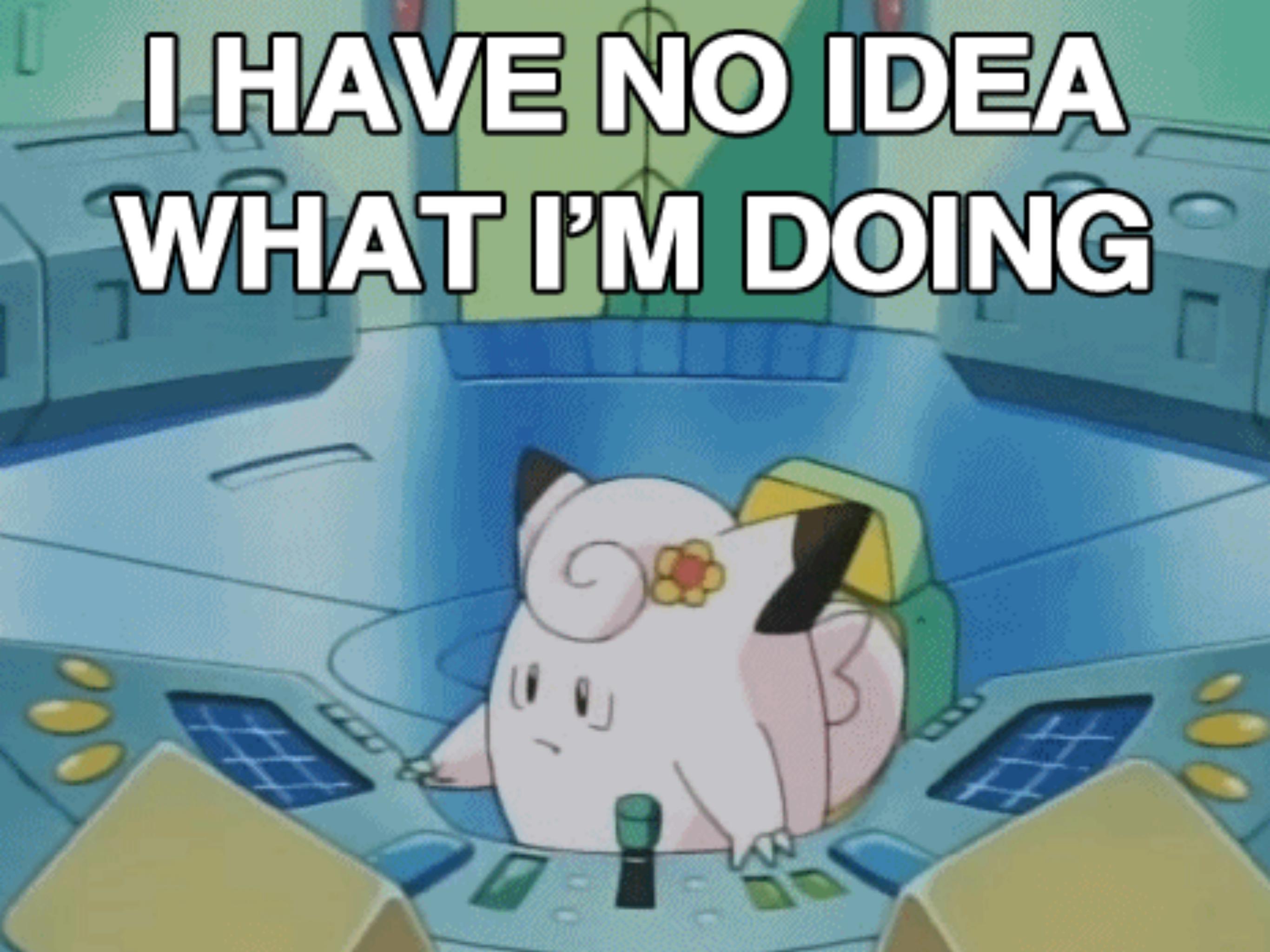




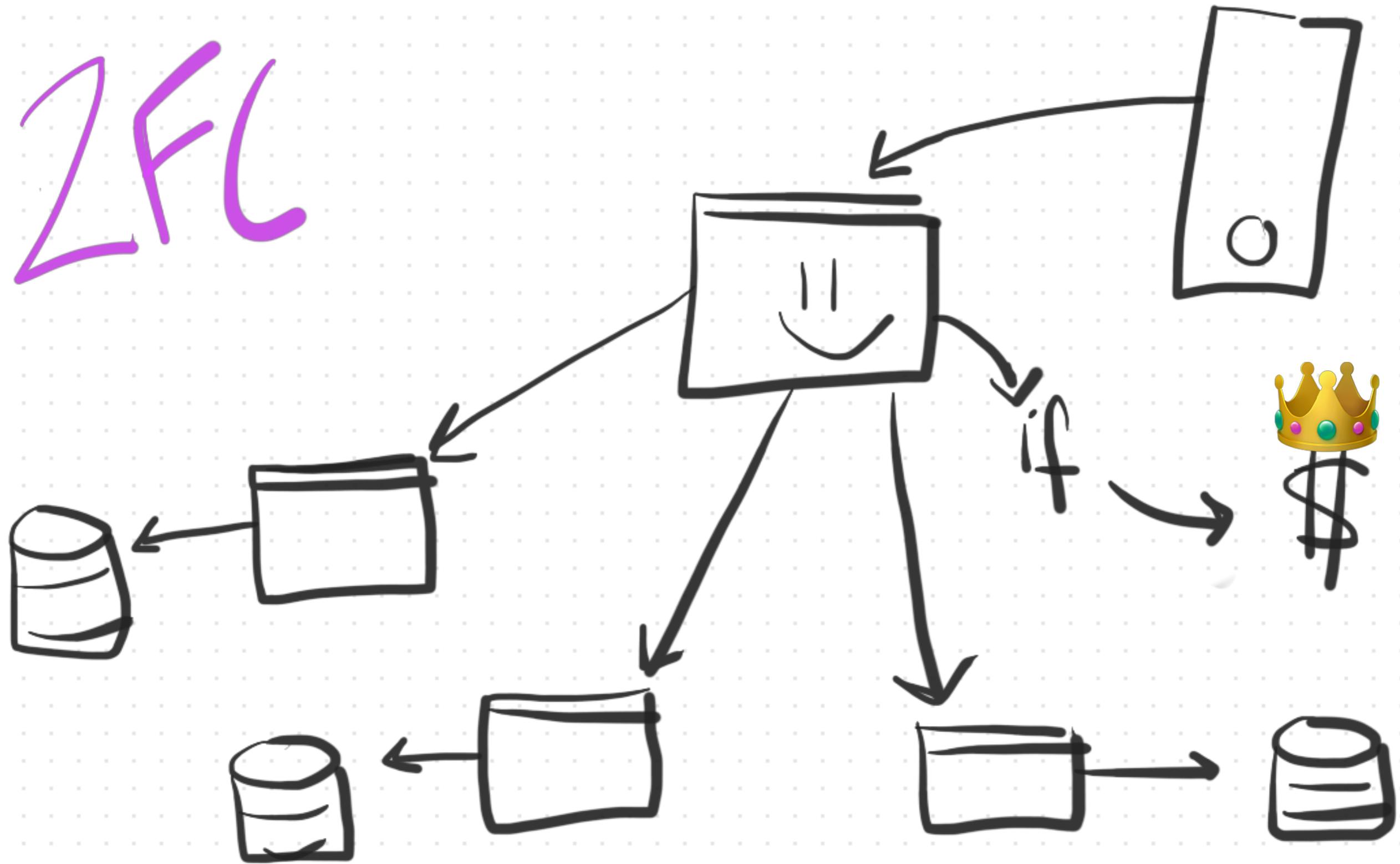
more  
truth



**I HAVE NO IDEA  
WHAT I'M DOING**



ZFC



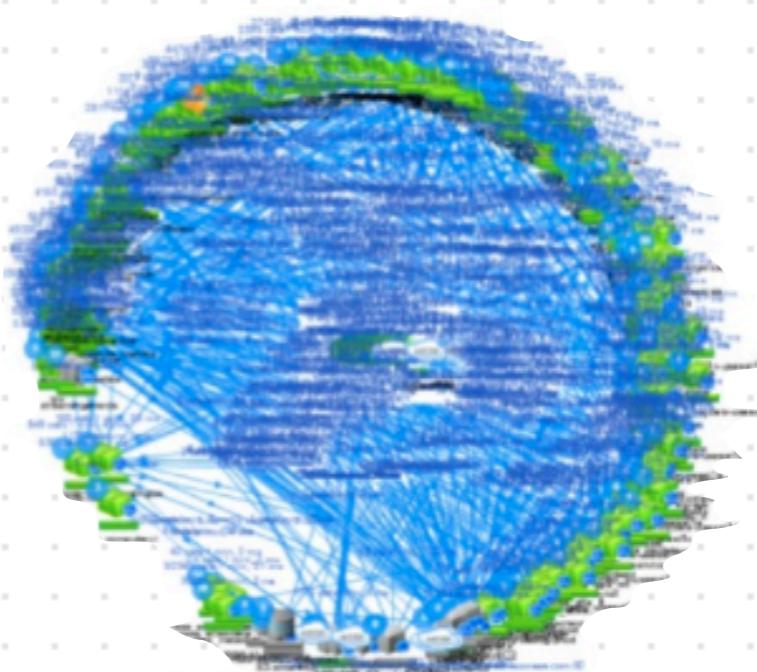




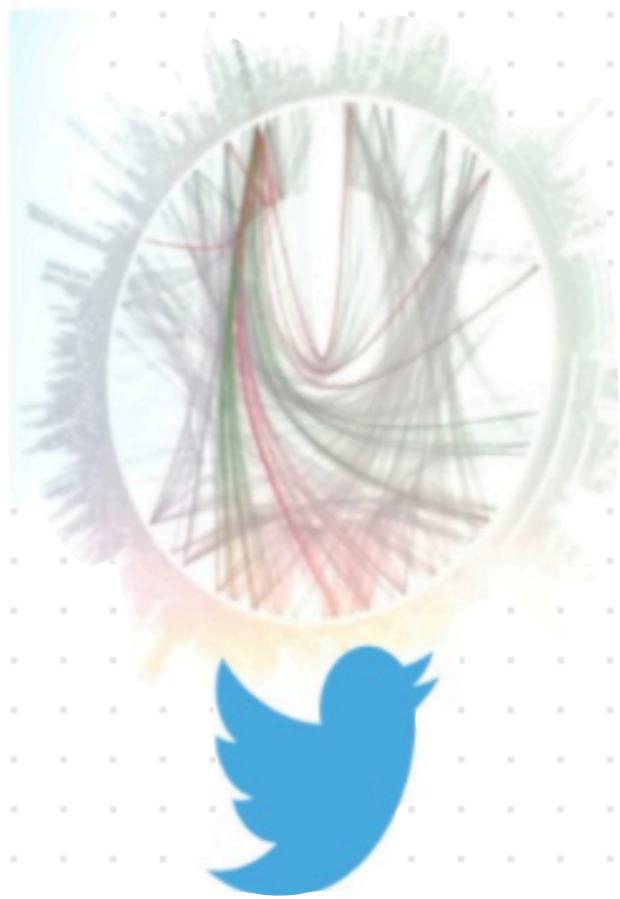
450 microservices



500+ microservices



500+ microservices



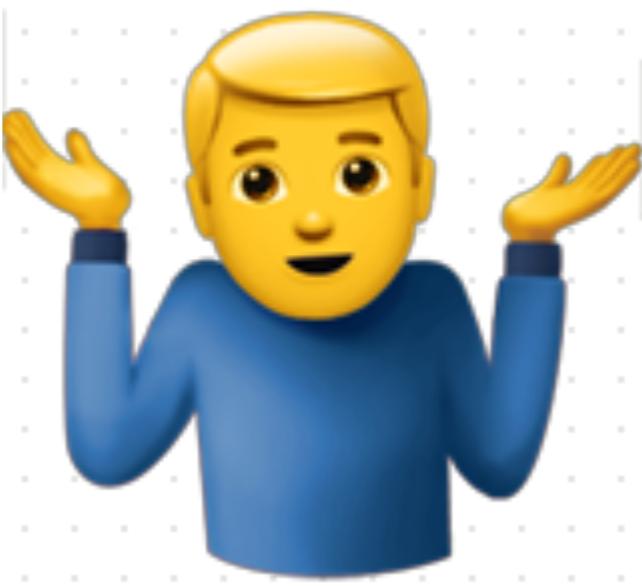


5

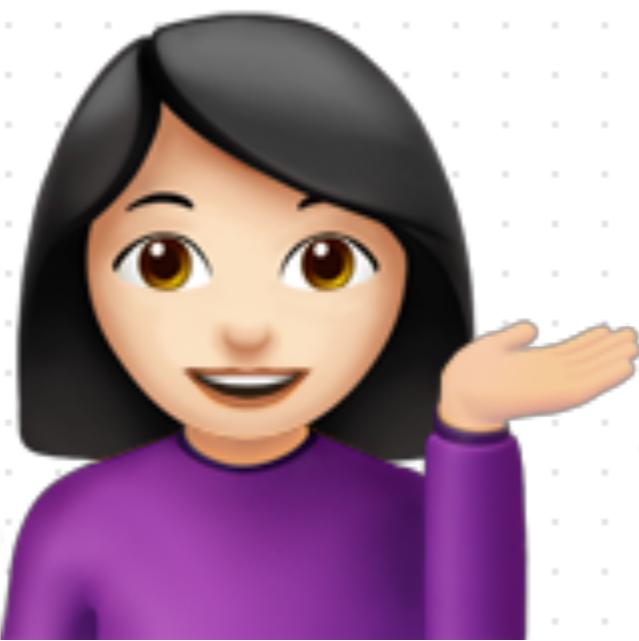
SOGGS  
C FTW!



**Abort**



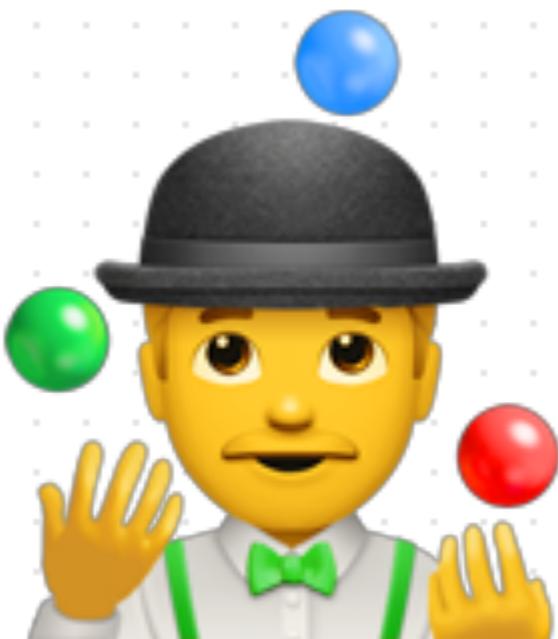
**Idempotent**



**Compensate**



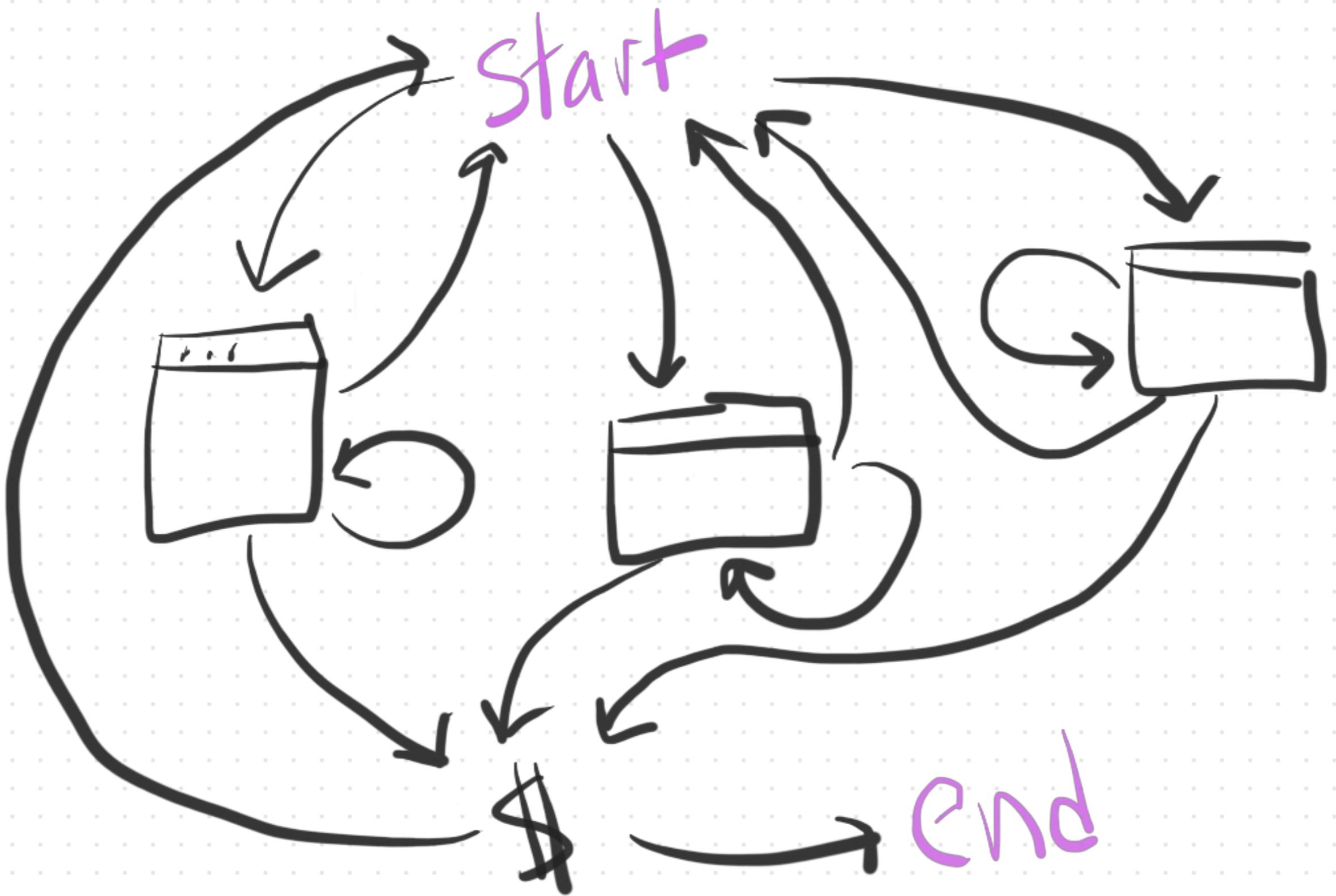
**Compensations  
cannot abort**

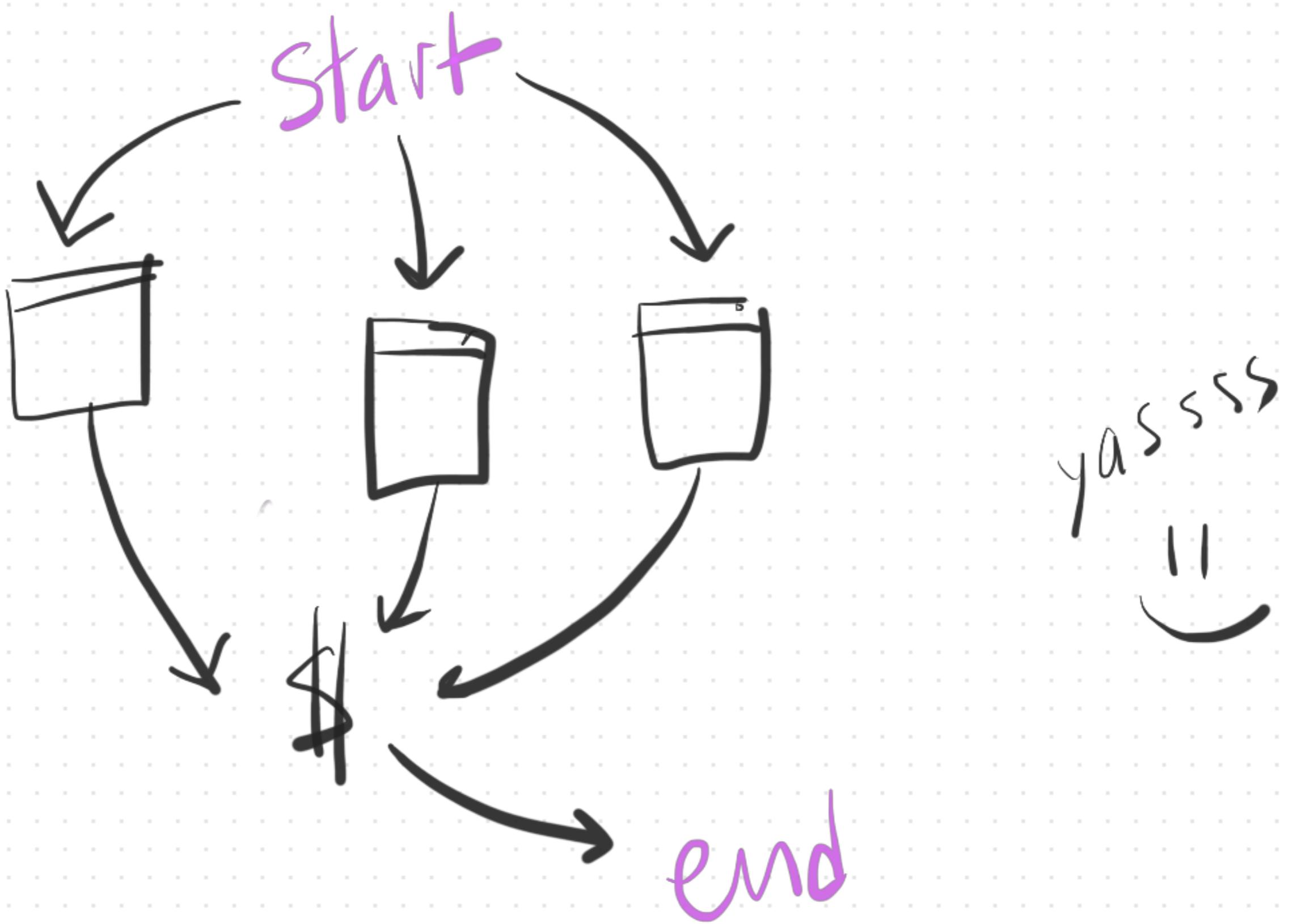


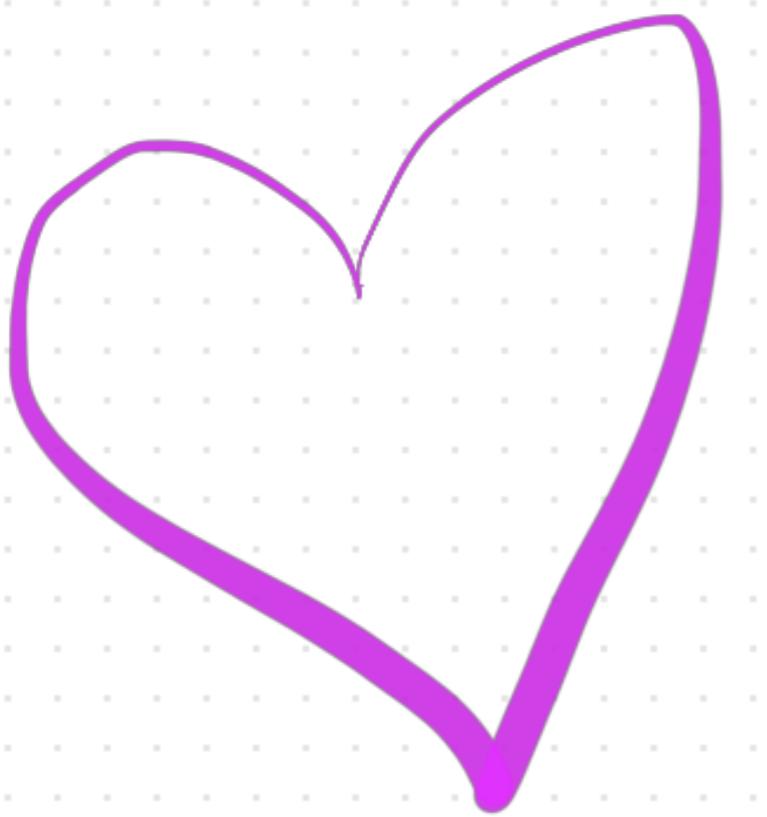
**Commutative**



**Traceable**







finite  
state  
machine



it's  
demo time!!



thanks

@sospedra-Γ

