# My Awful Ex Data Systems

# Data Systems and Relationships

- Lots of effort
- Makes you unhappy
- Gives nothing back



# The One Night Stand

- It's fast and exciting!
- It's just this once, no need to take precautions
- Mostly happens when your brain is... less rational...

### d to take precautions ar brain is... less rational...

## All Code is Forever (Until it gets deleted)

## All Code is Practise

# 

- Nothing to be excited about
- A bit rundown and broken
- Probably quite old
- "It doesn't matter"

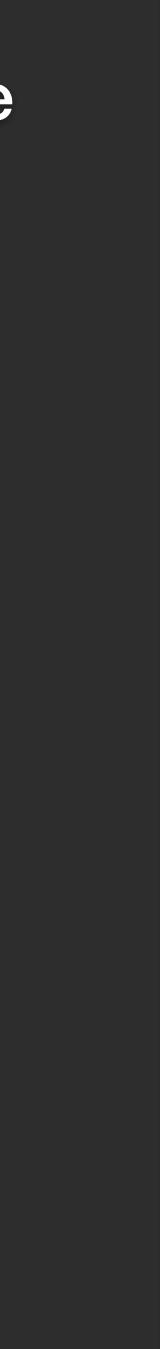
### Data Warehouses

# Boring Software Needs Love Too

- Sometimes boring partners flower with love
- Have the fewest moving parts possible
- Less code is good code
- Focus on making interactions easy and reliable



### Local File Storage

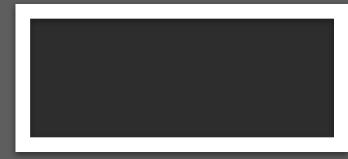


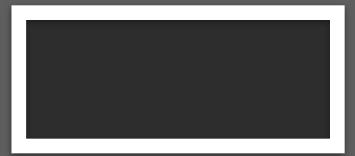
### O O O Queue

Awesome Data Transfer Service Local File Storage











Local File Storage



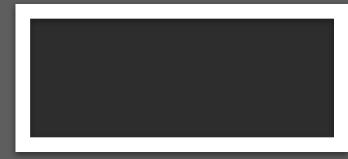


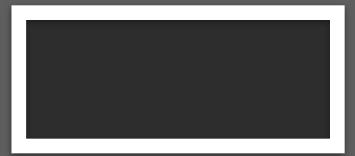


### Rsync











Local File Storage







### Rsync



## The Backseat Driver

- Keeps forcing you to do things a certain way
- Gets really whiny if you don't give in
- Never considers what you want

hings a certain way on't give in 4 want

## Frameworks Bad Libraries Good



- Lots of Hype
- Promises to solve all problems
- No negatives in any possible way



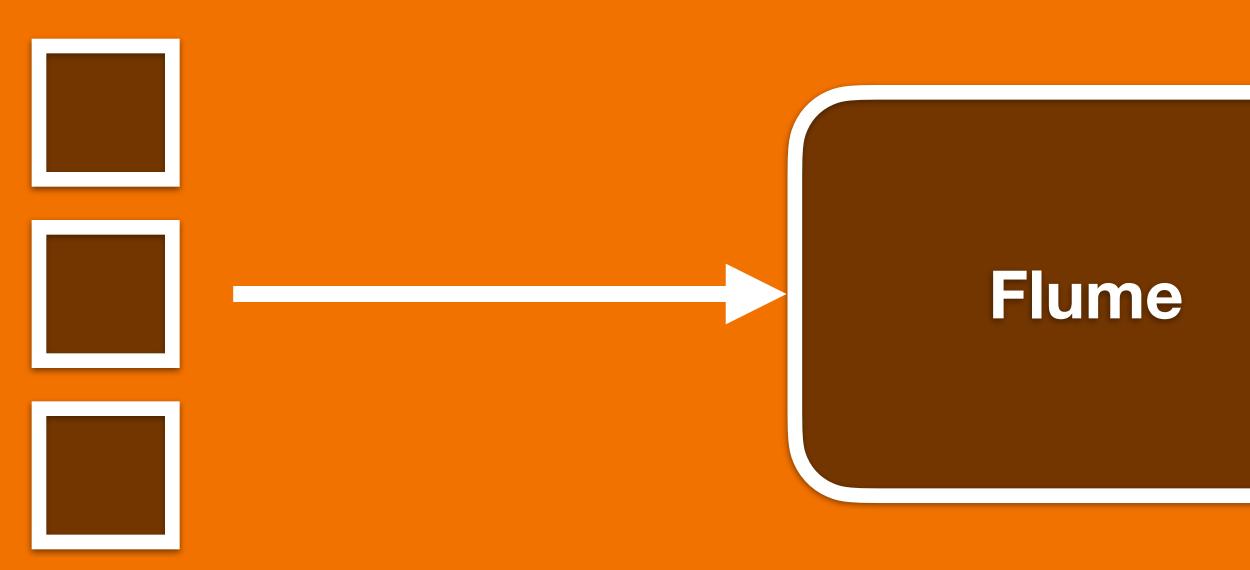
- Never helps you in any way
- Not good at anything
- "Why haven't left?"

## ne oser



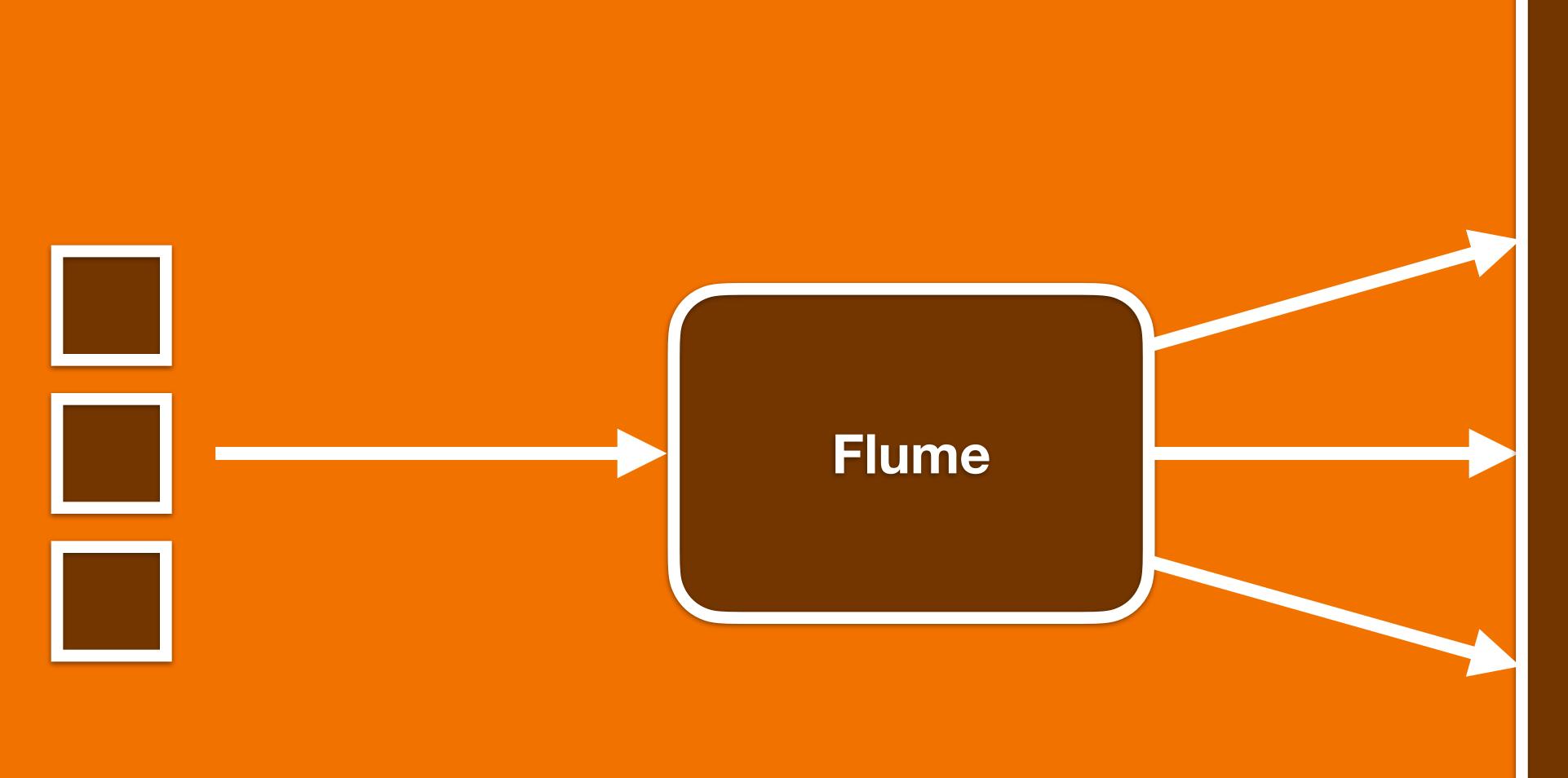






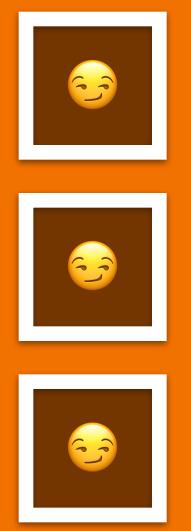


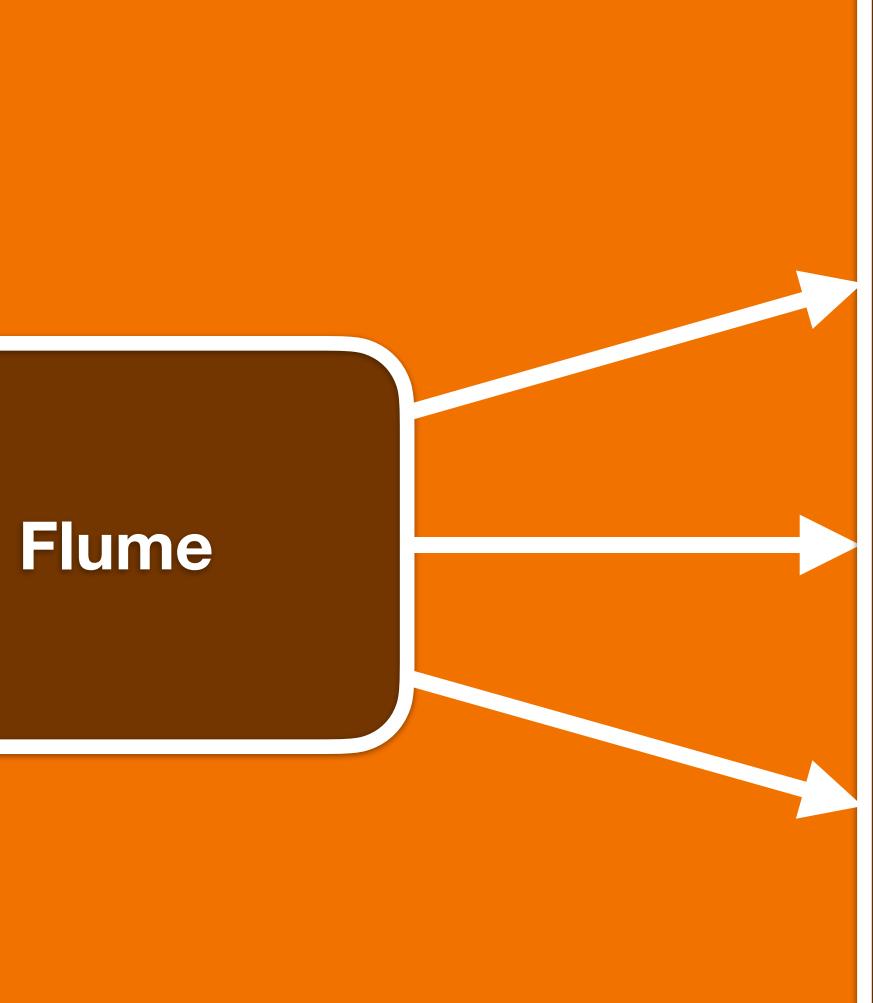






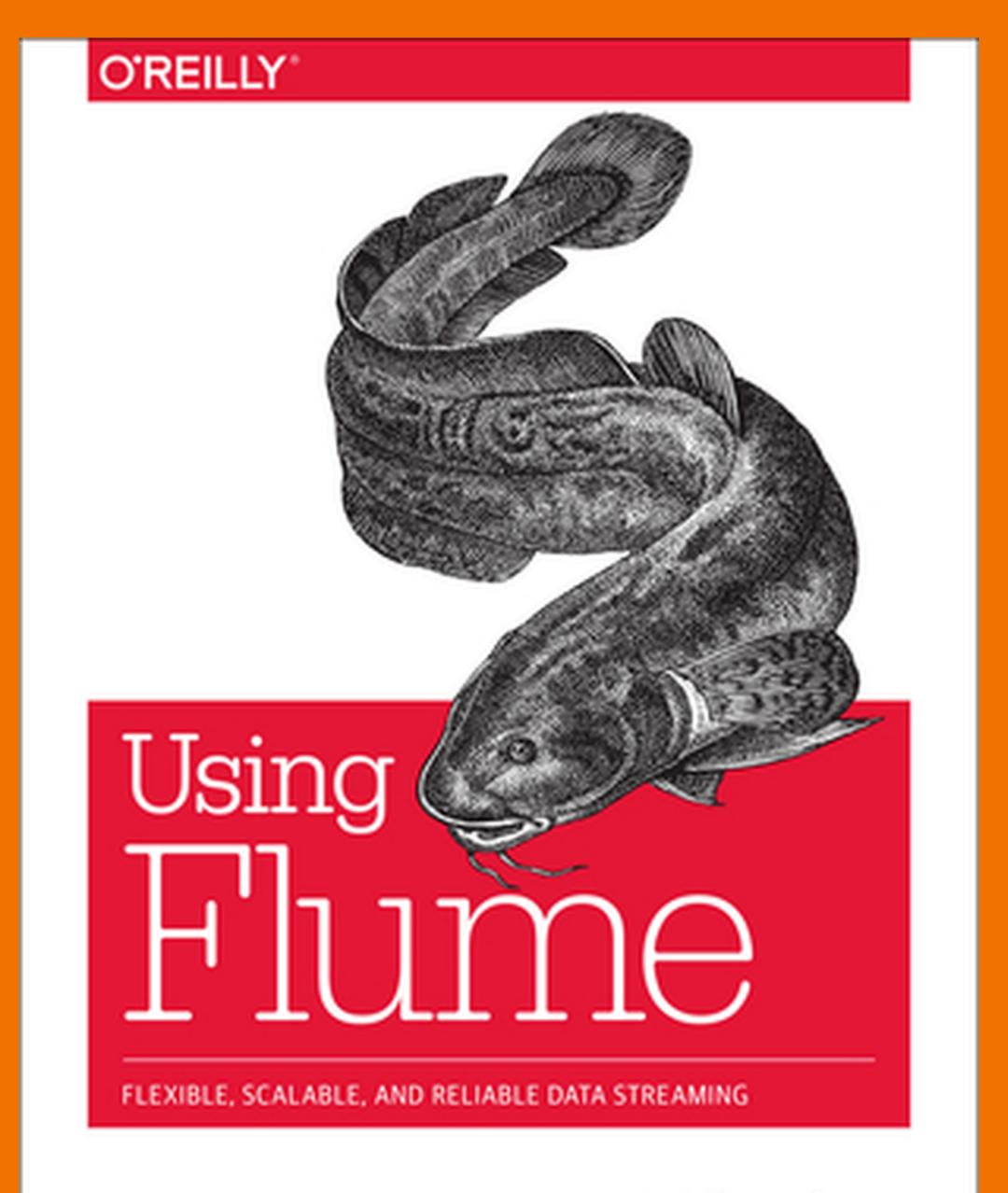






### HDFS





Hari Shreedharan



Hari Shreedharan

Using Flume

# 

### 

 $\mathbf{O}$ 

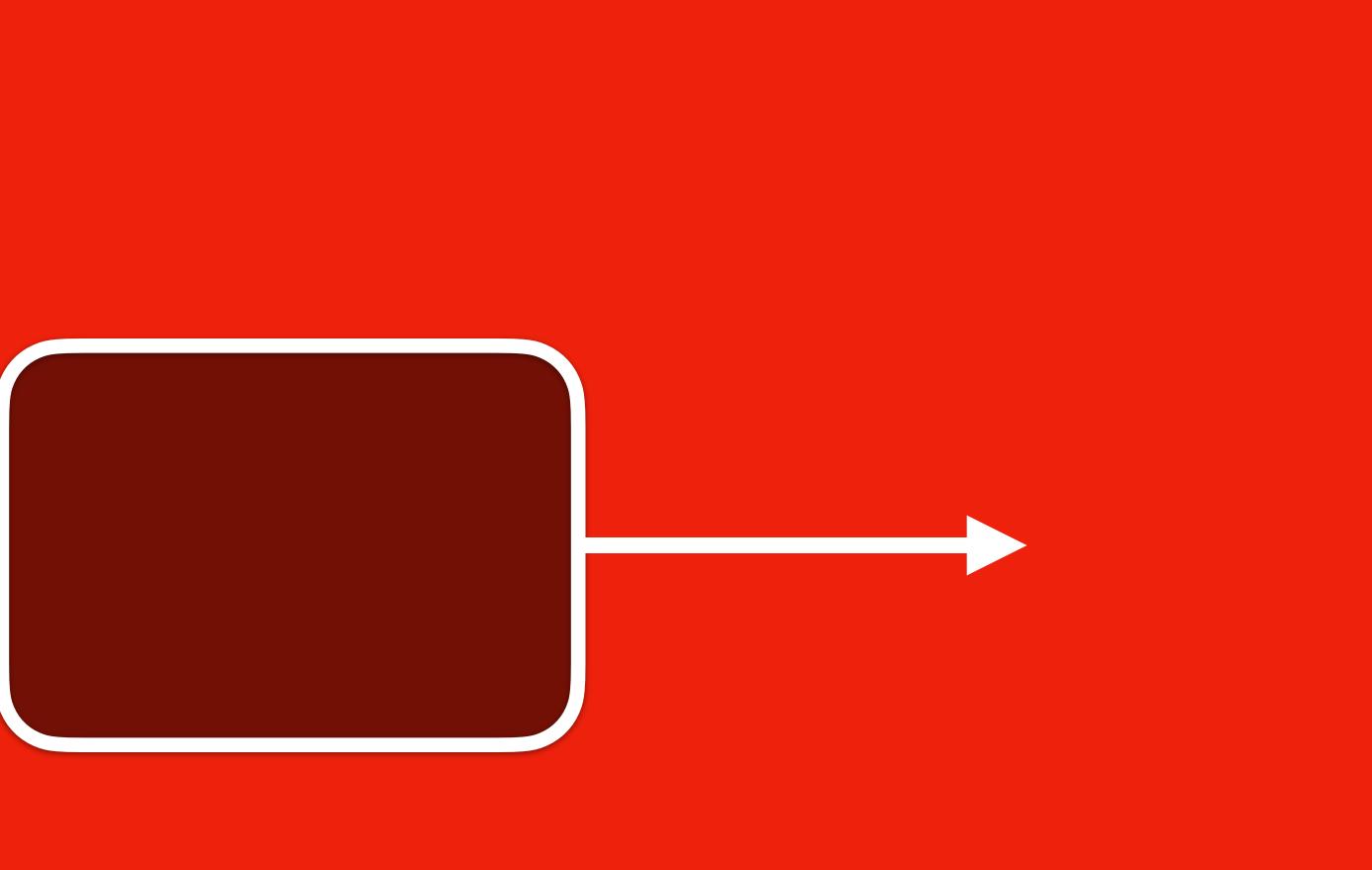
### You can do better than Him

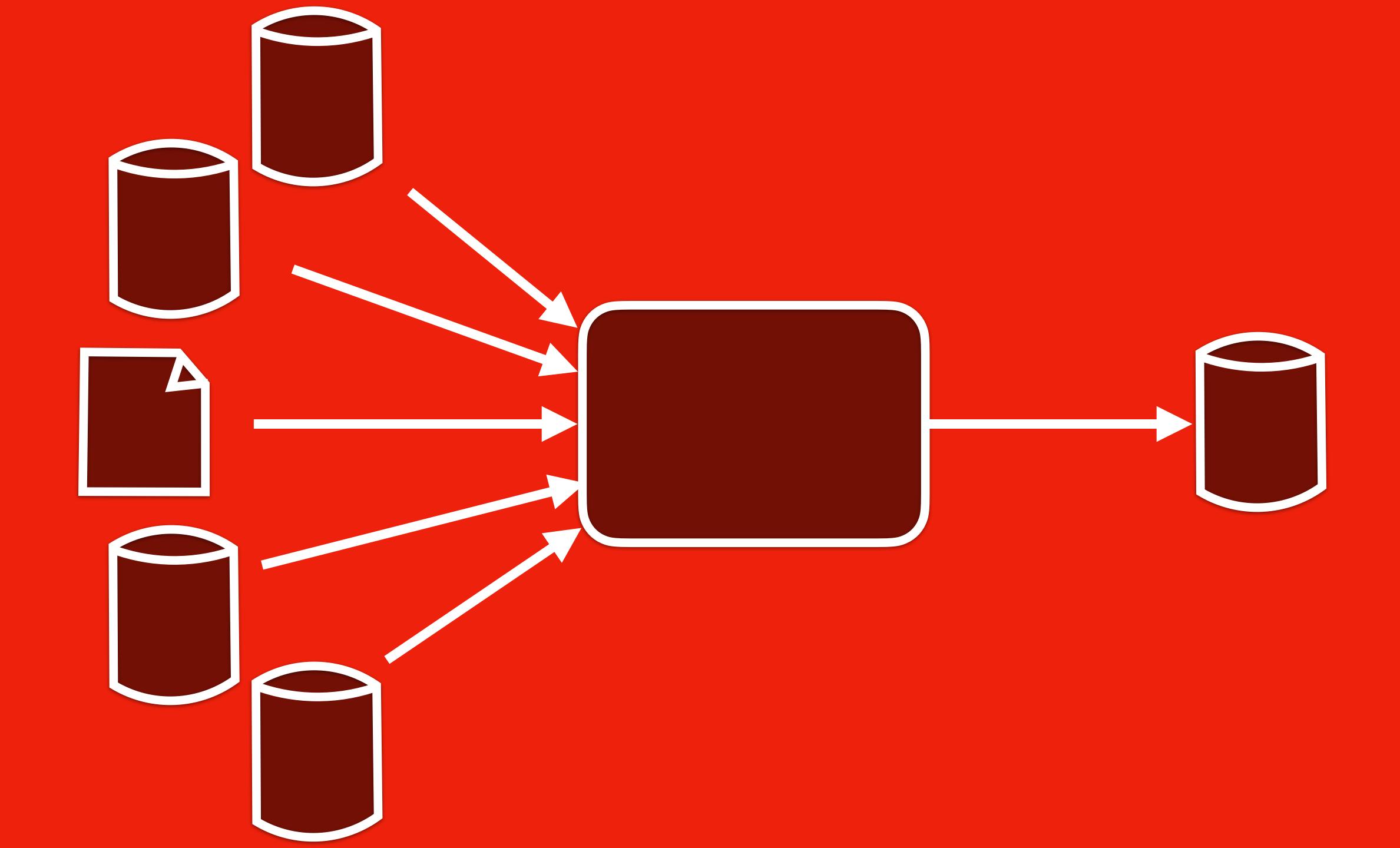
- Key Value: Redis, Dynamo, BigTable
- Document Store: SQL, Elastic Search
- Map Reduce: Spark

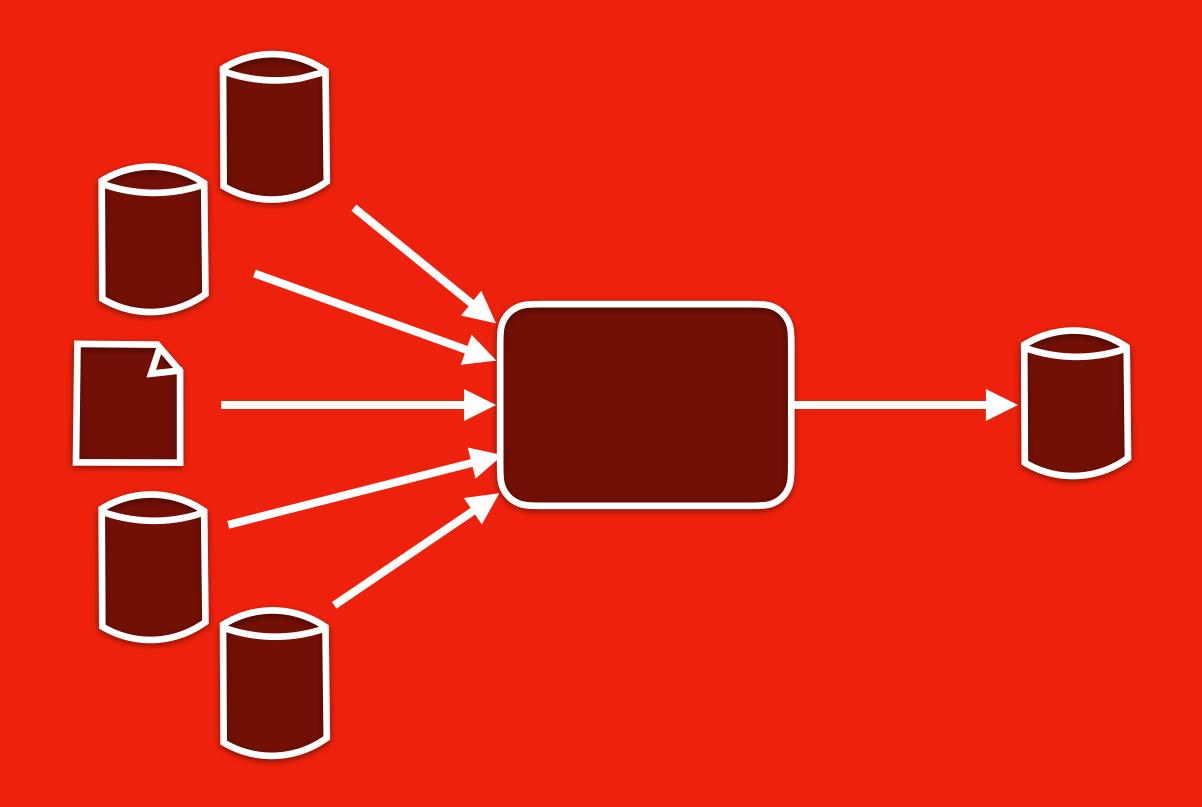
o, BigTable astic Search

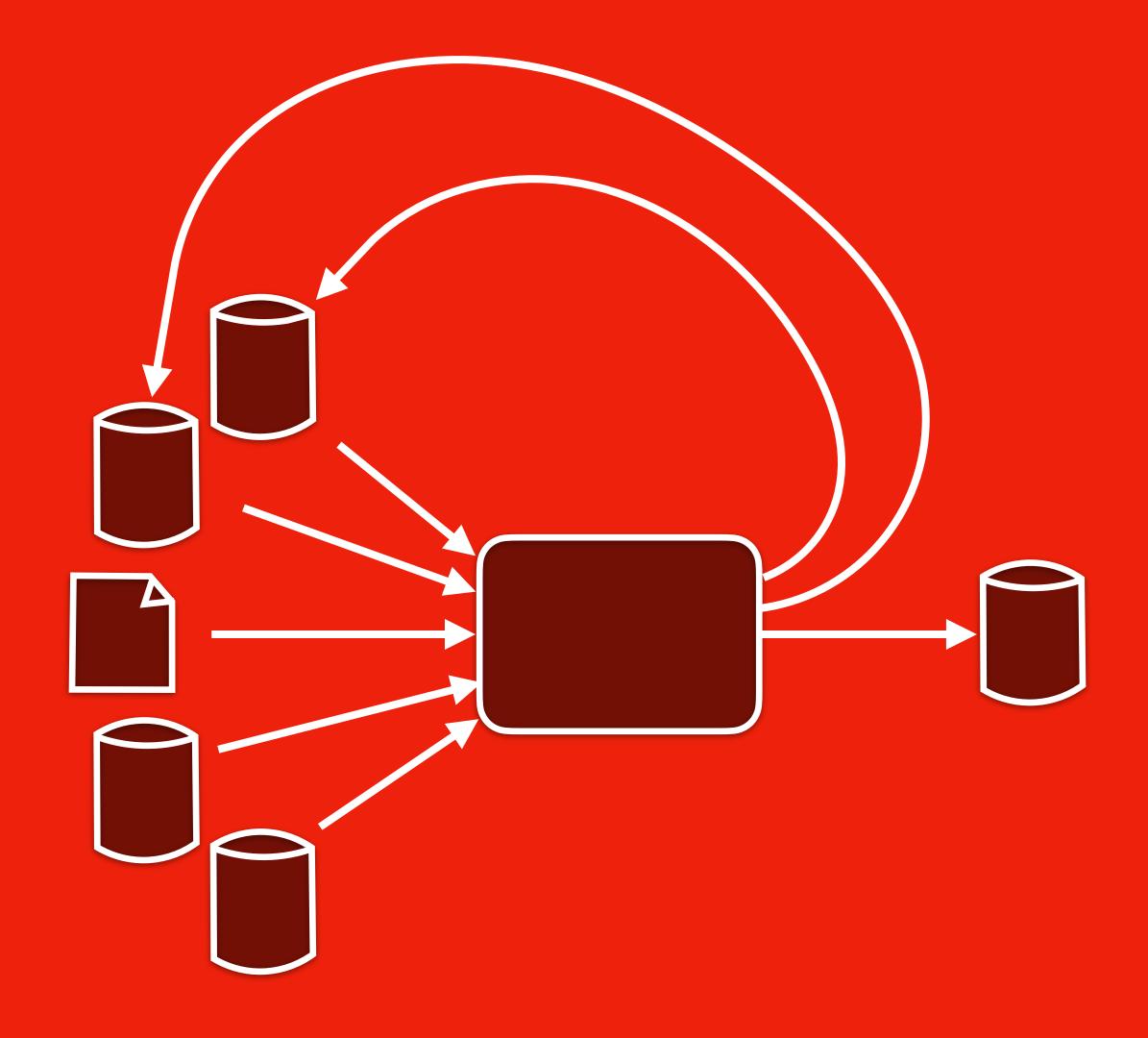
# ne Vonster

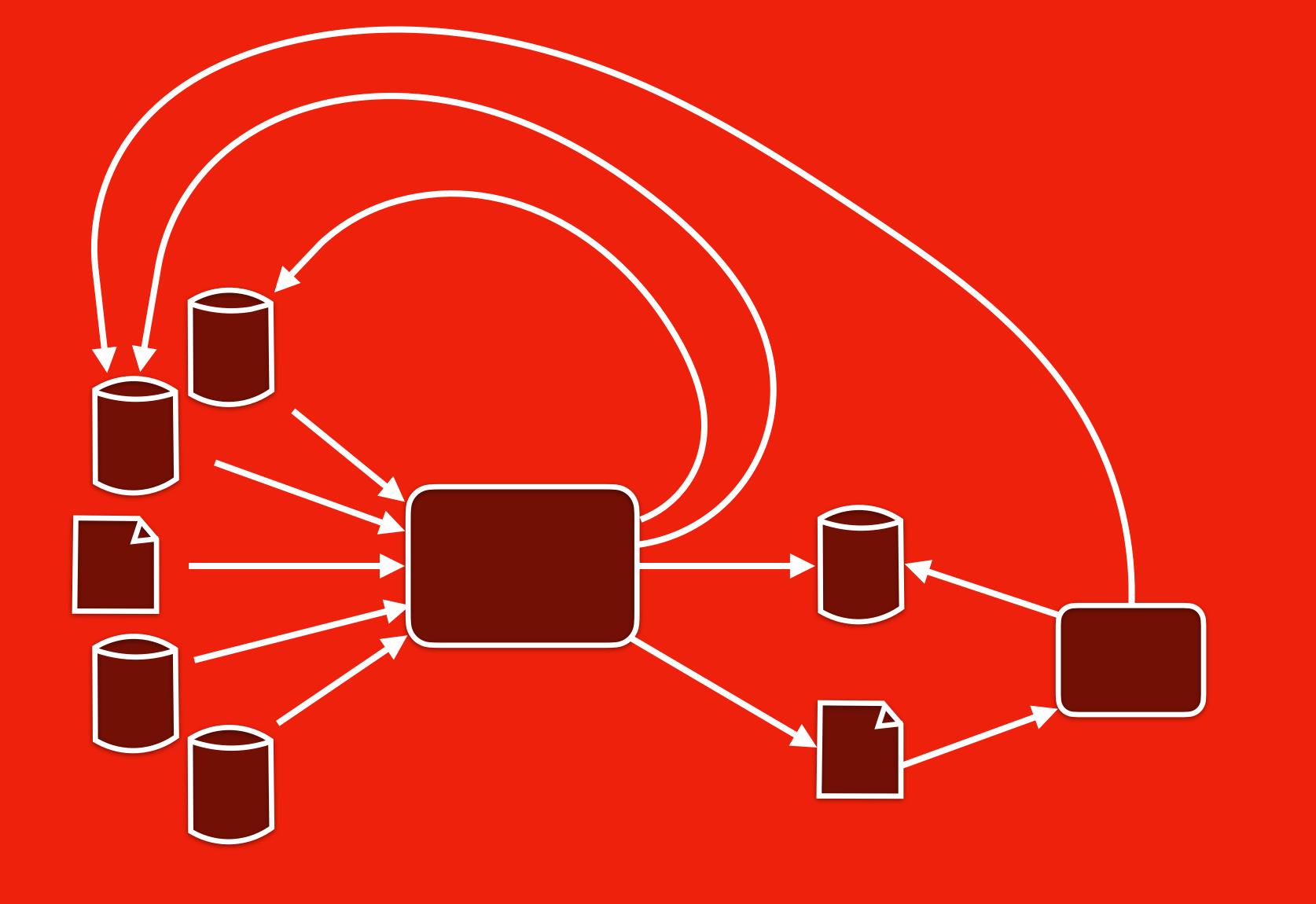
- Almost nobody understands how it works • Those that do are actually afraid of of it Fixing a problem takes huge amounts of time You've lost all hope and can't even imagine escape

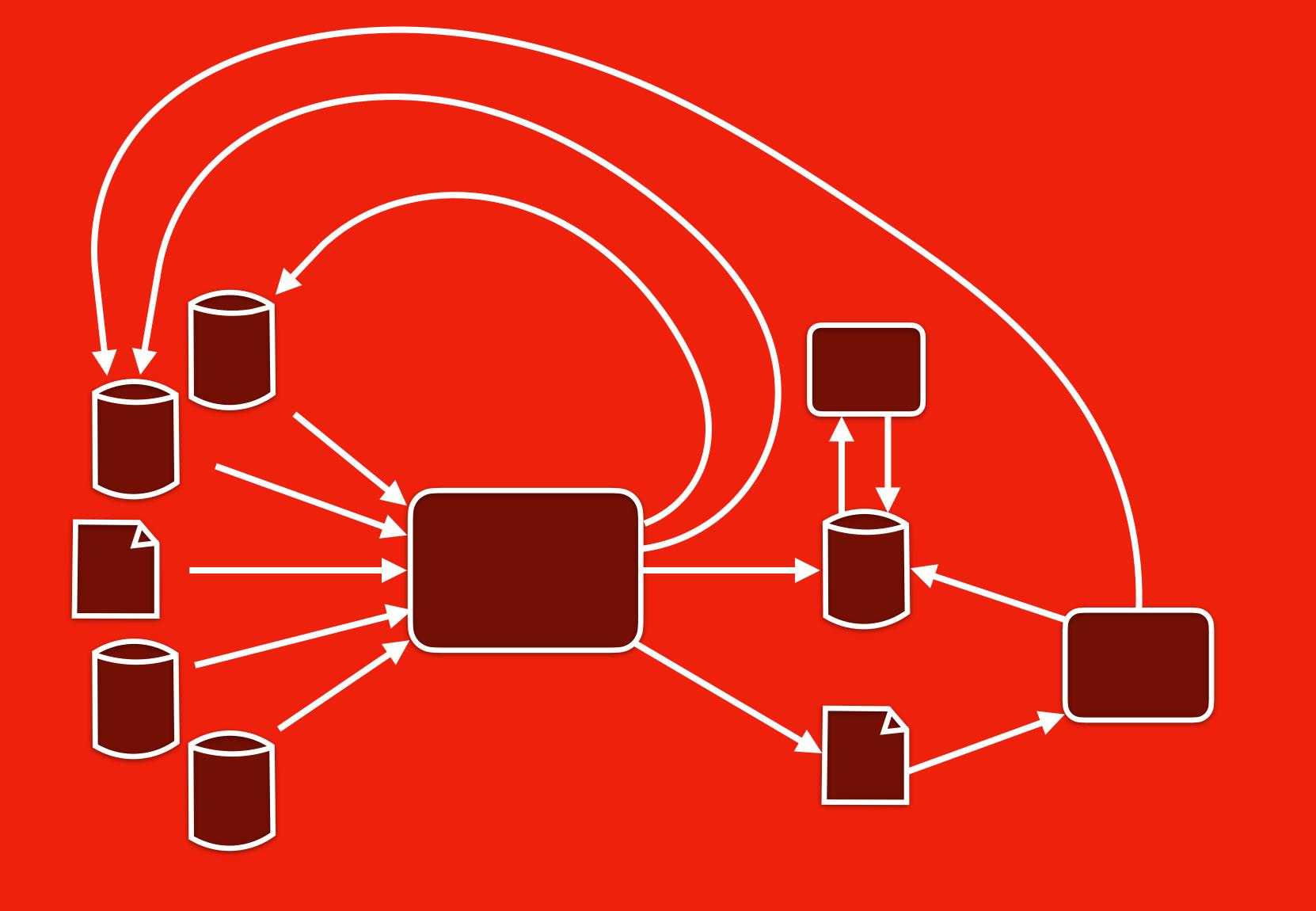


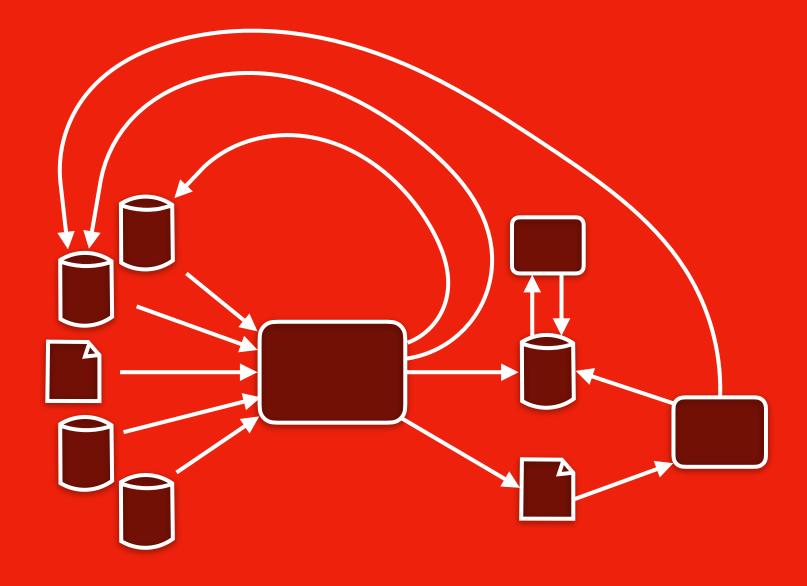




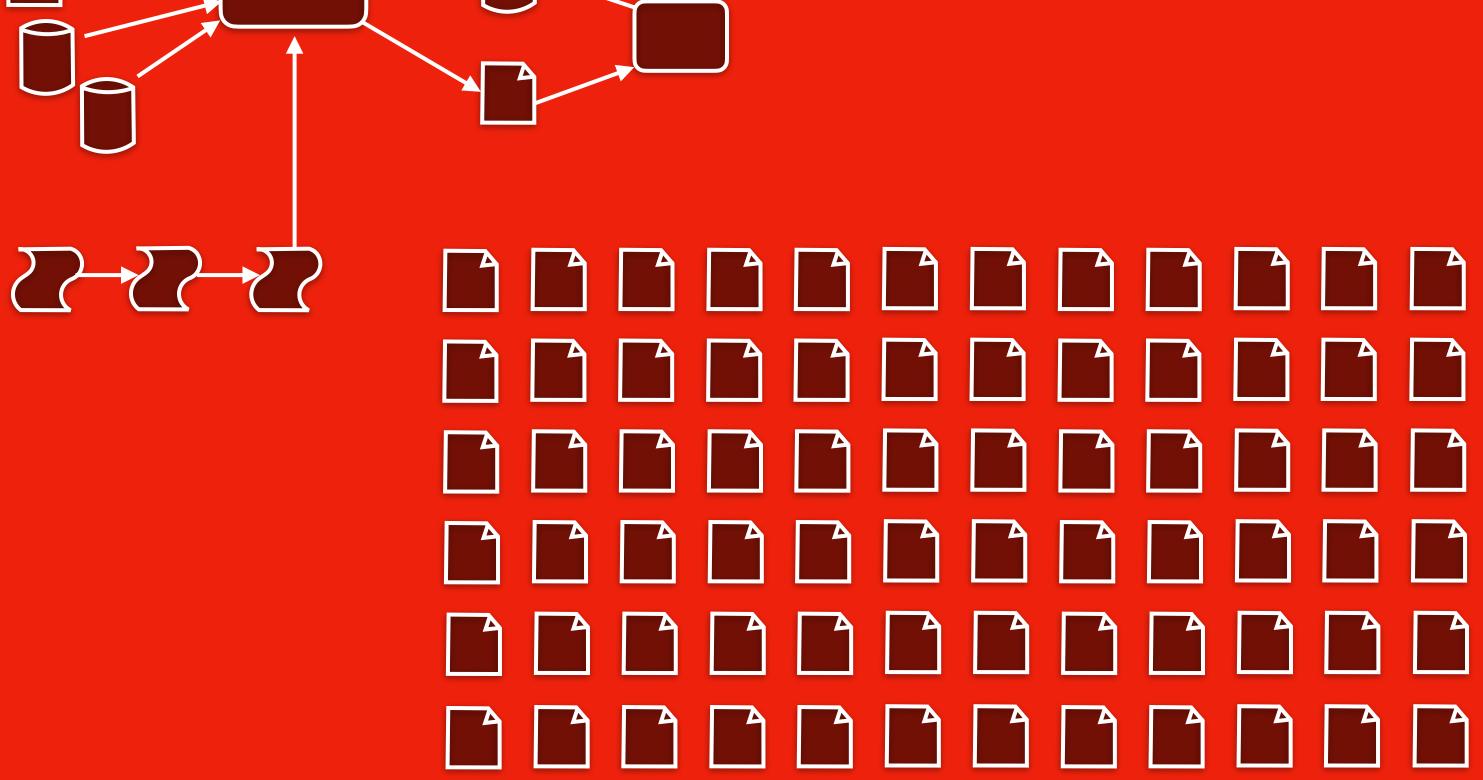














# Sometimes killing is the only option

#### Determinism

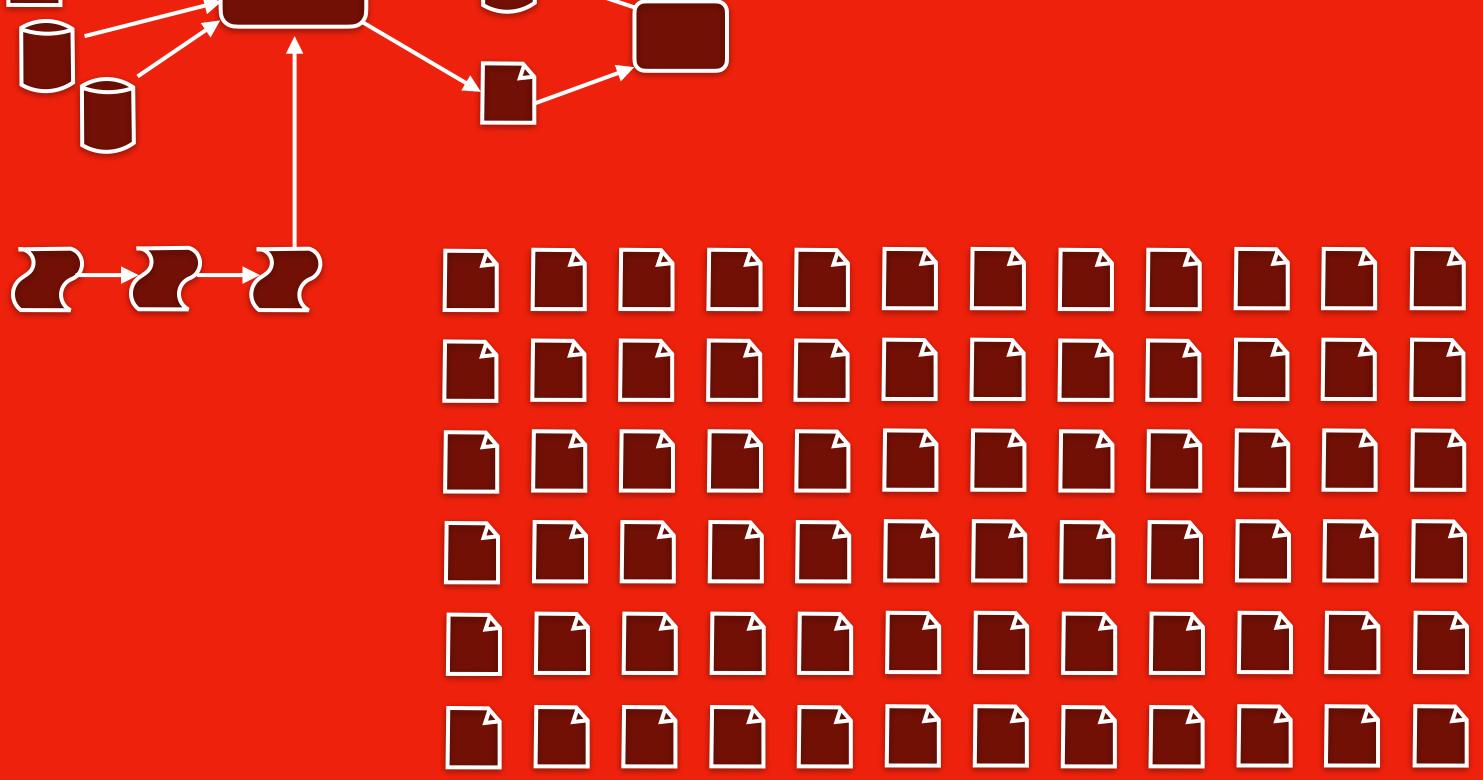
### Consistency over Correctness



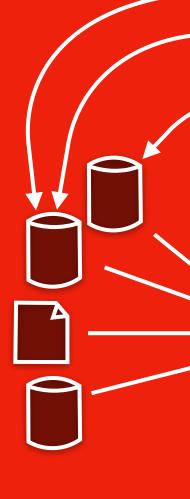
# In batch processing your data IS your logs

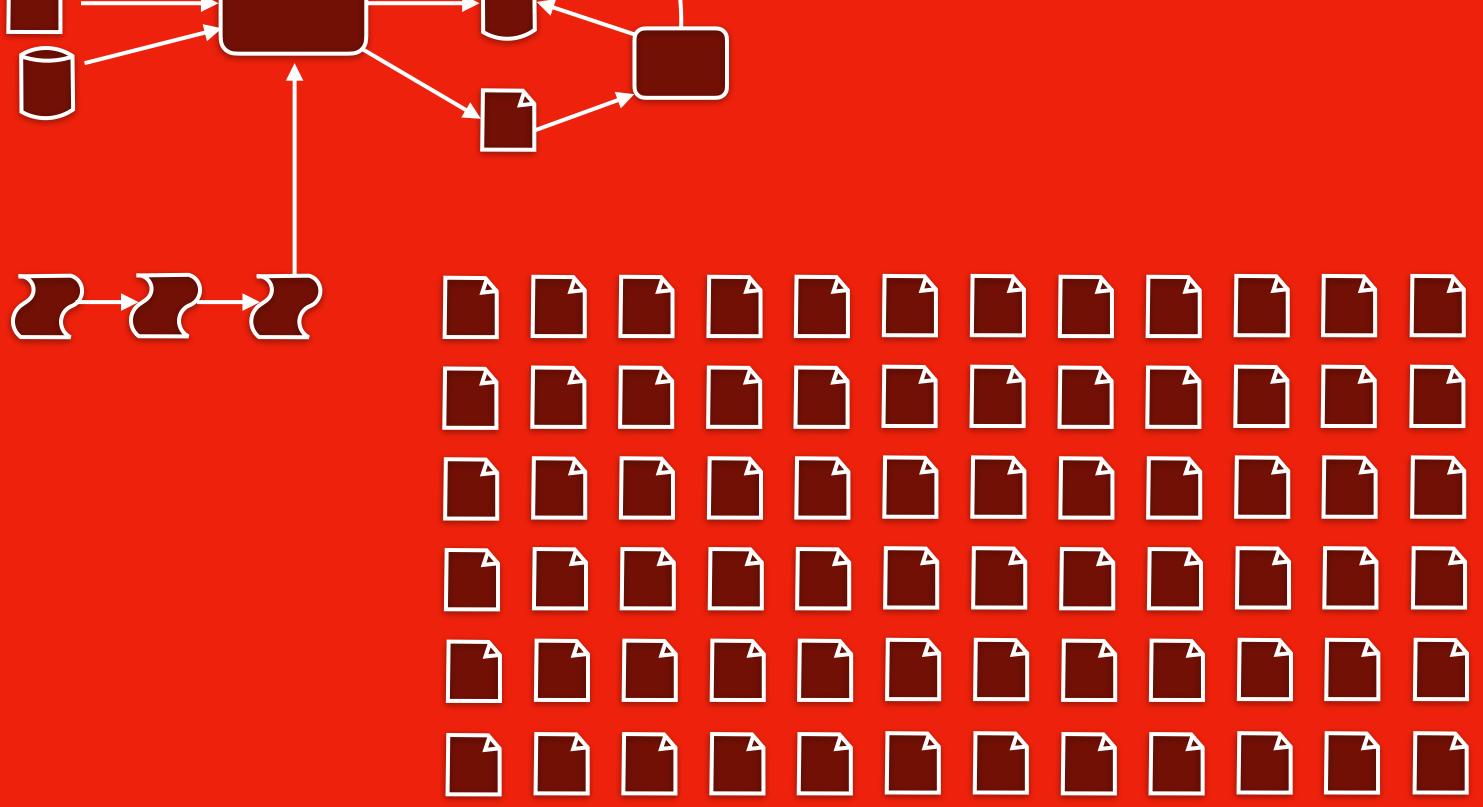
# How easily can you see what is happening?



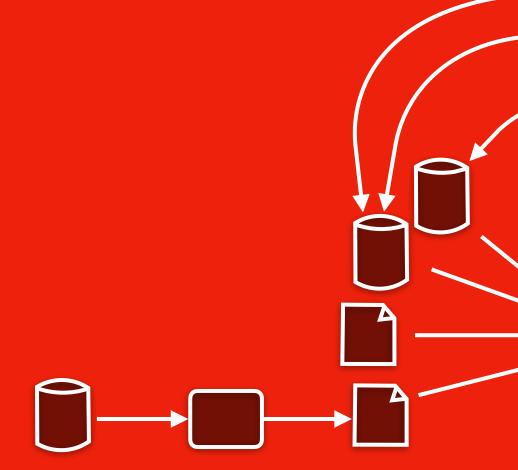


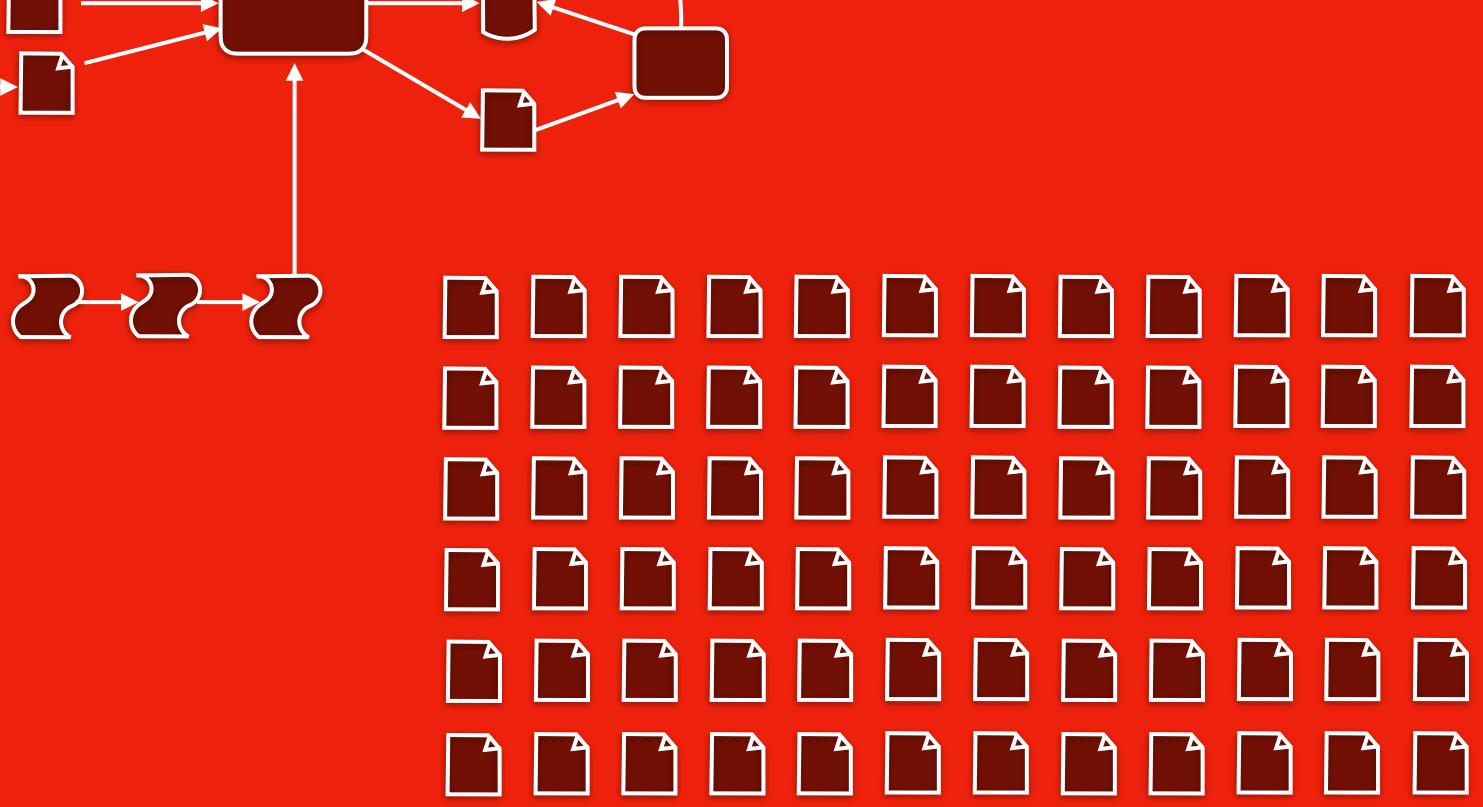




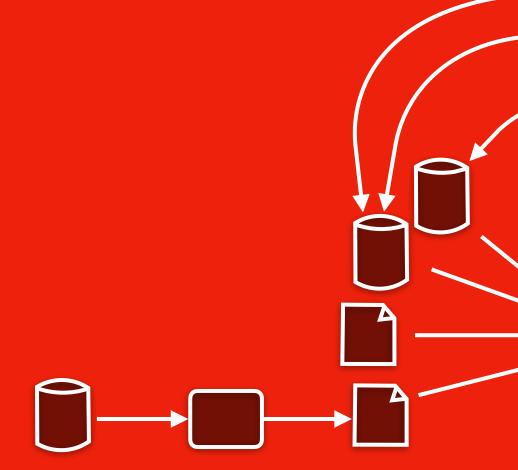


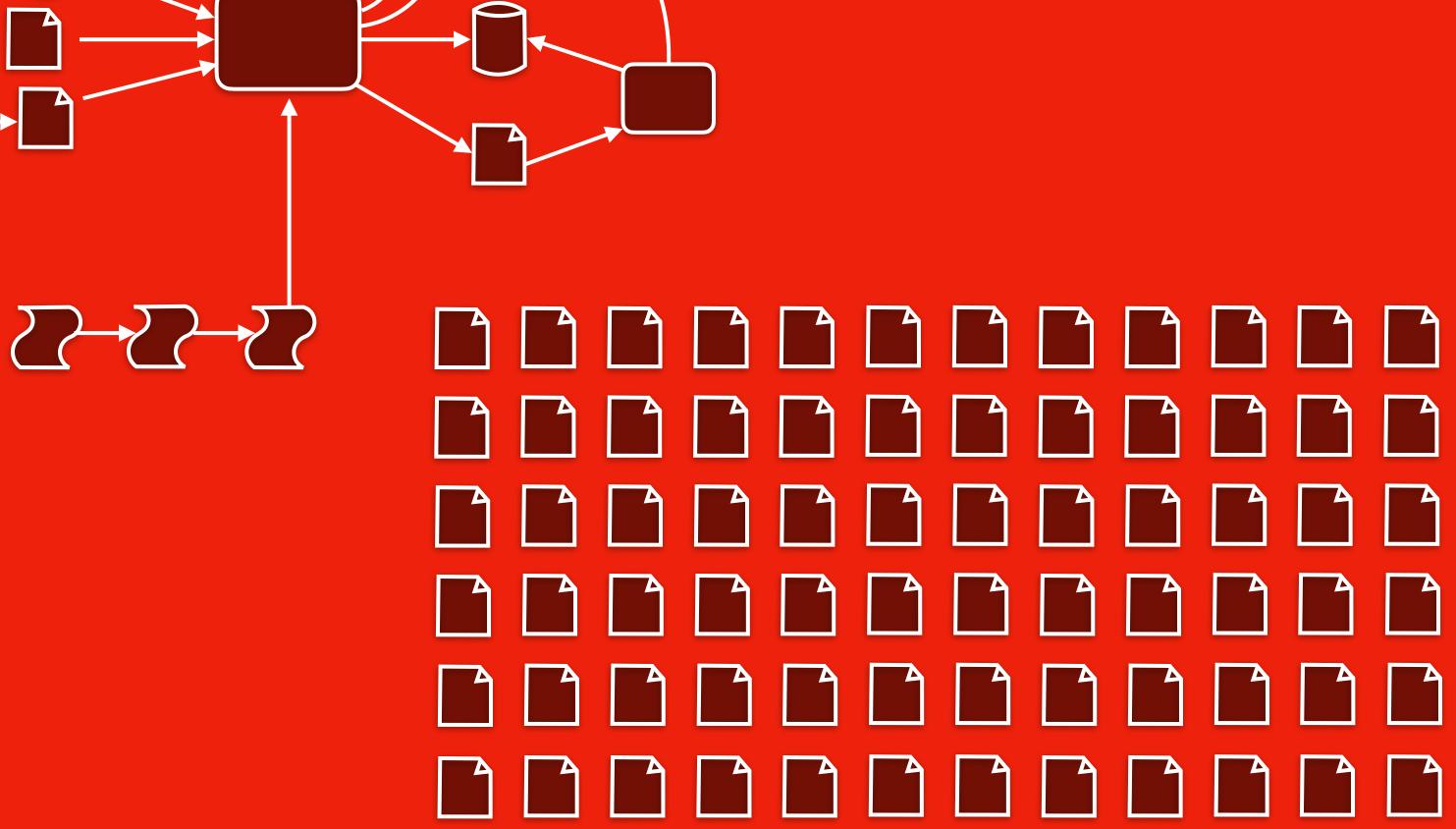




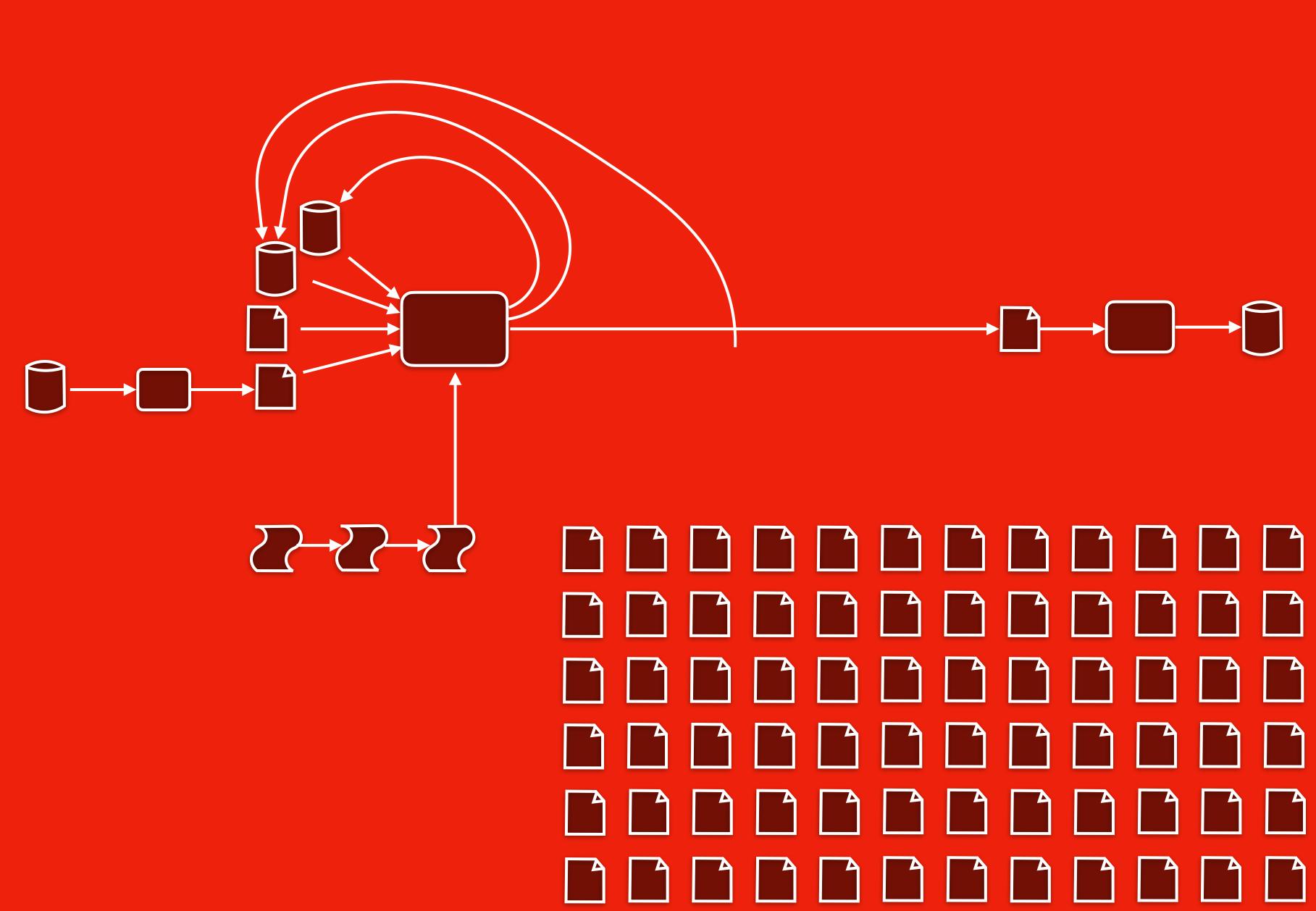


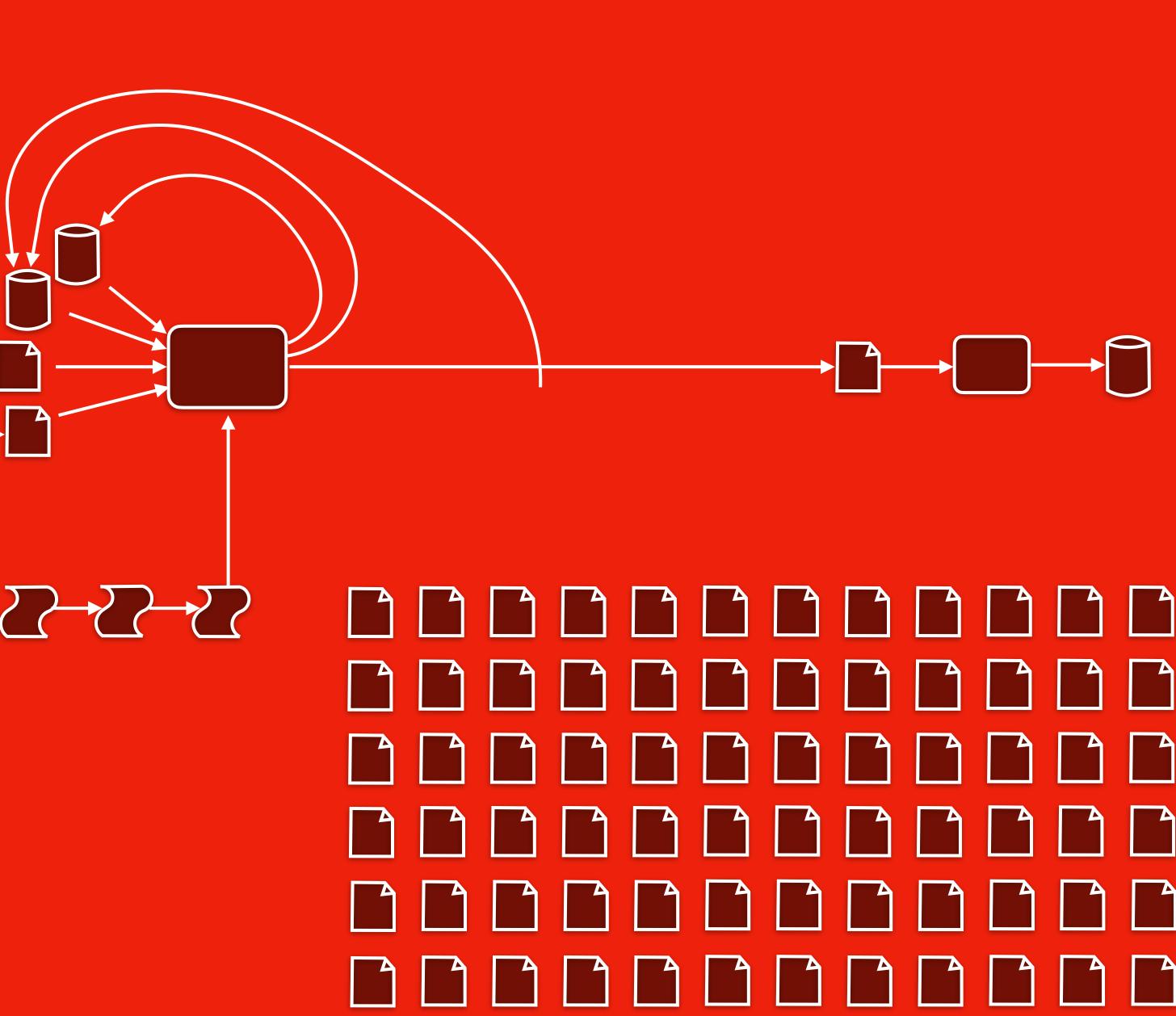


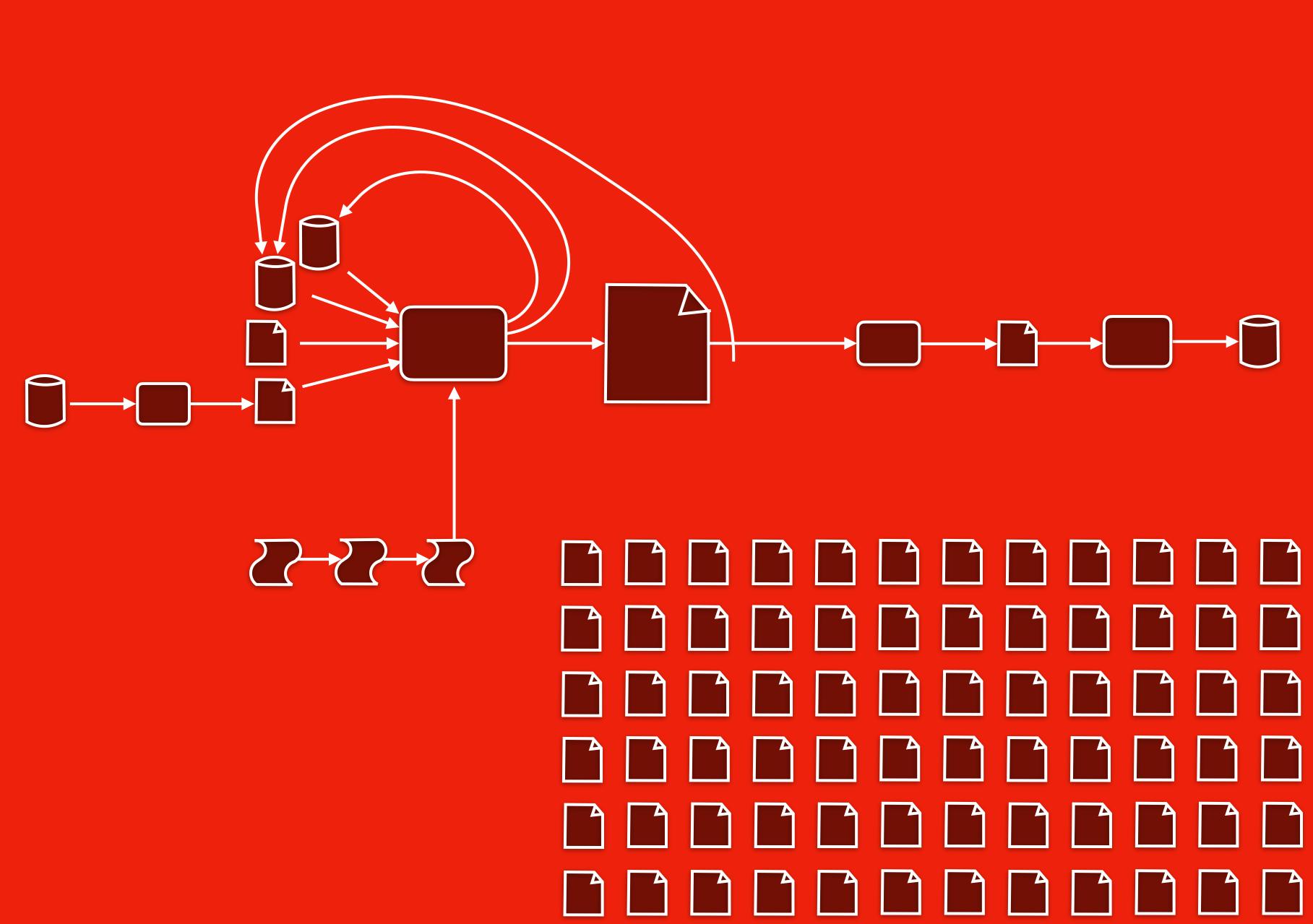




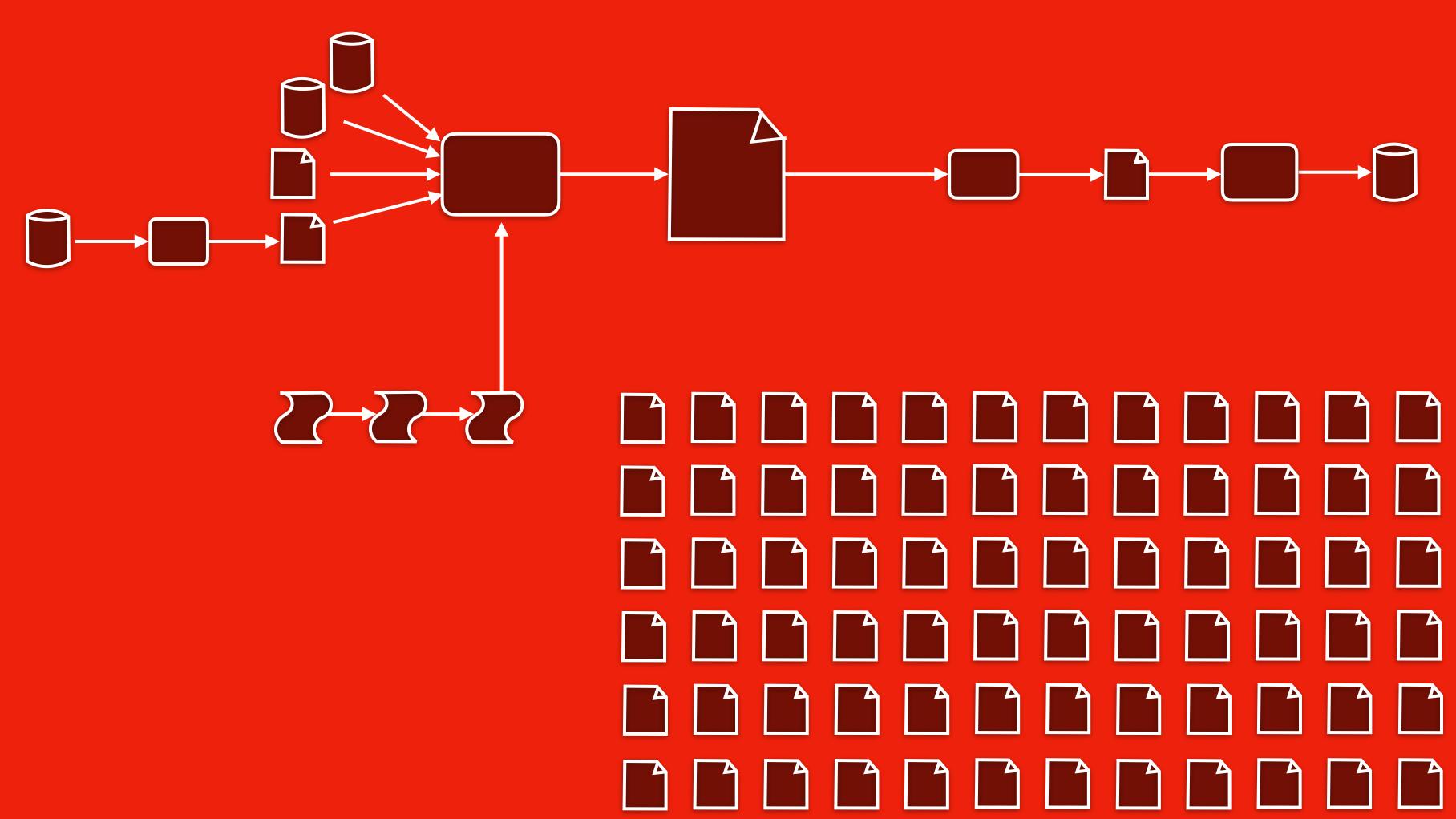


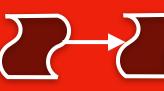


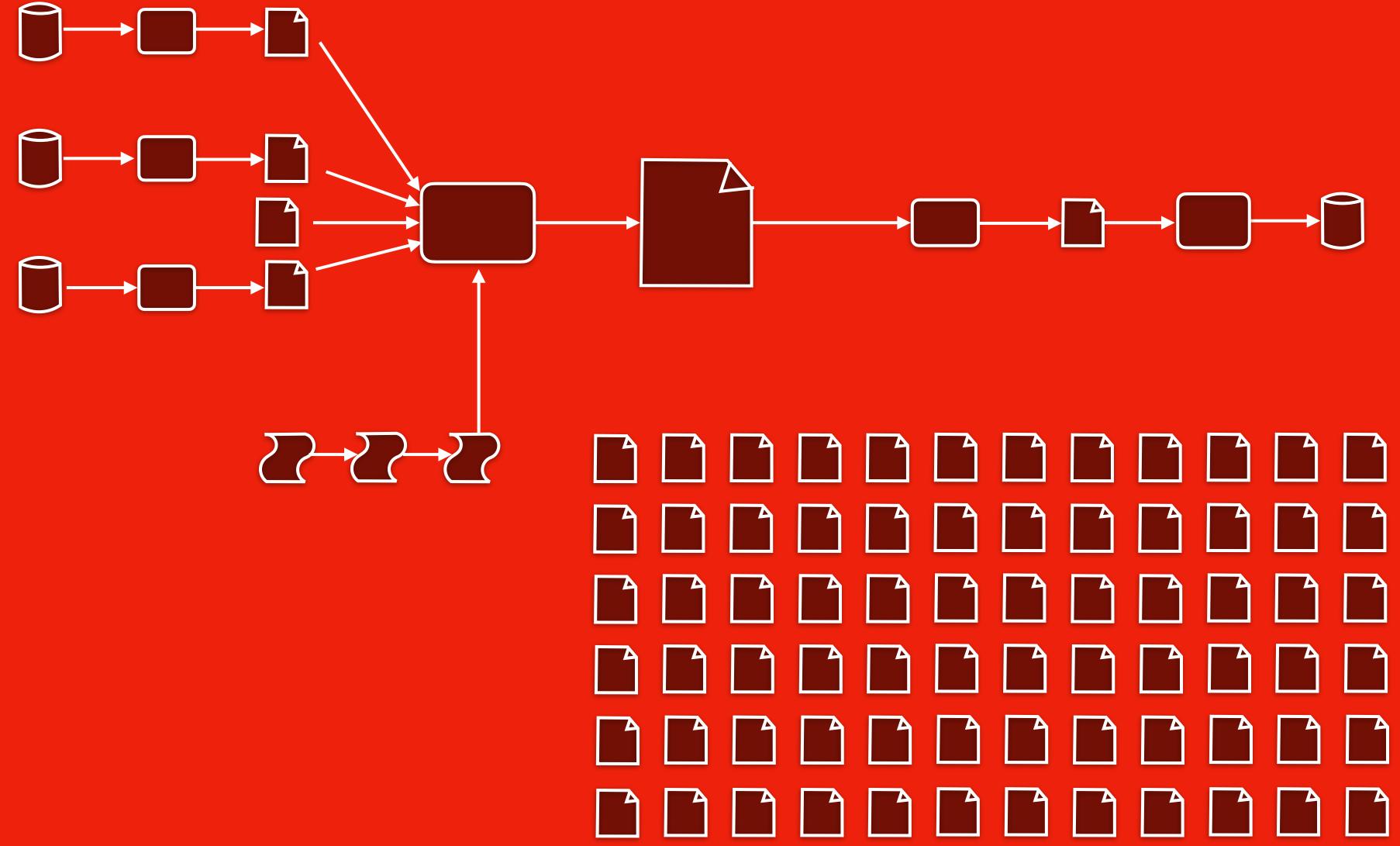


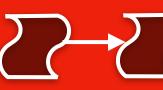


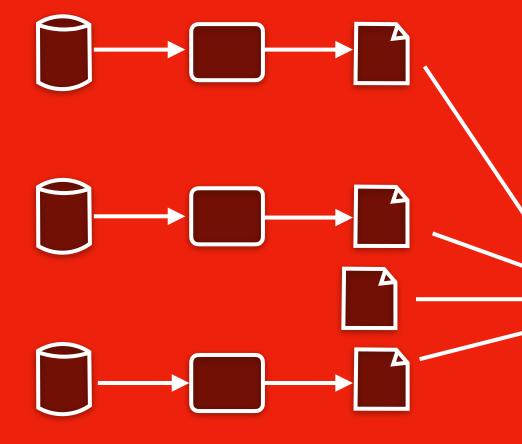




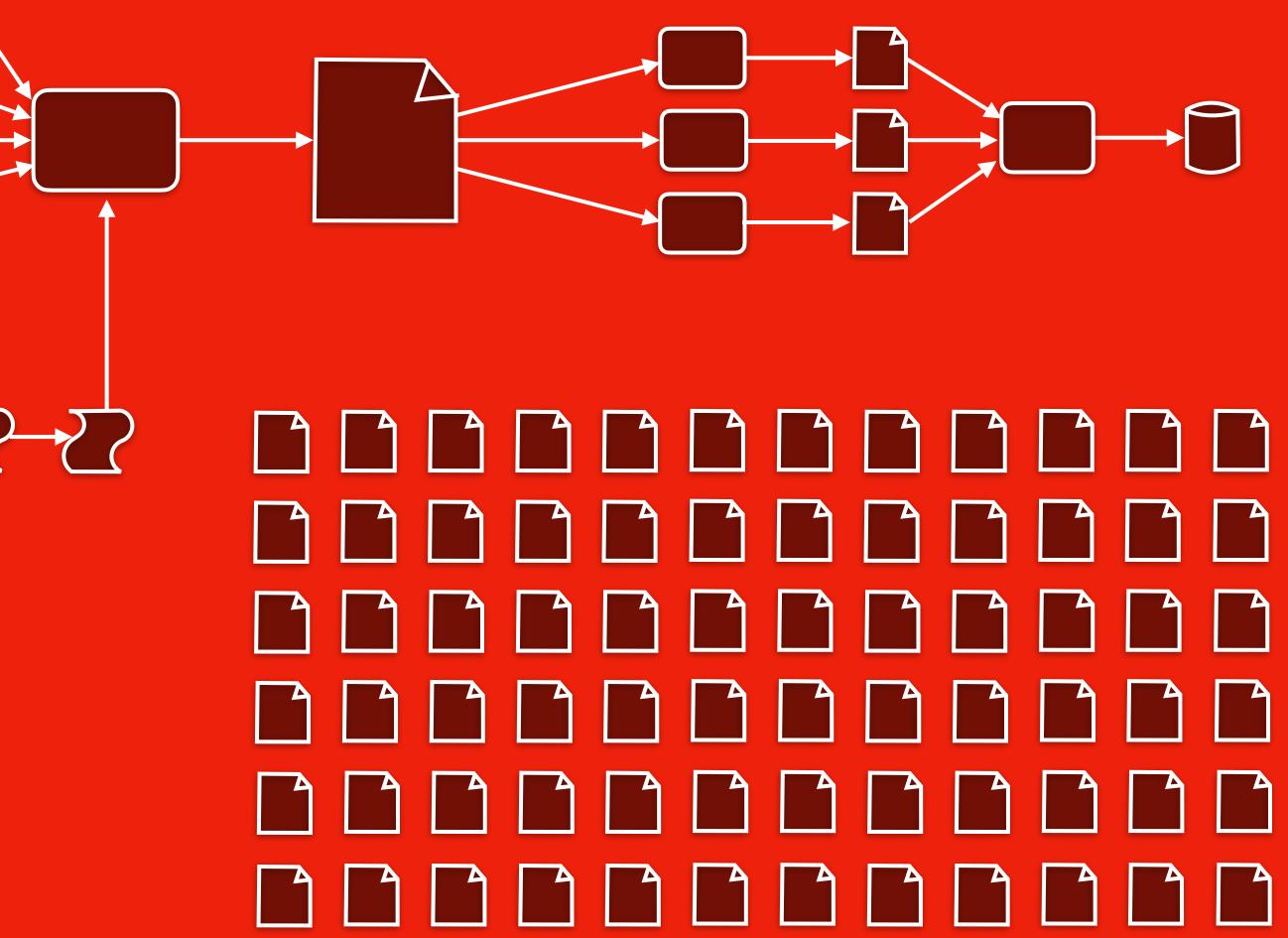


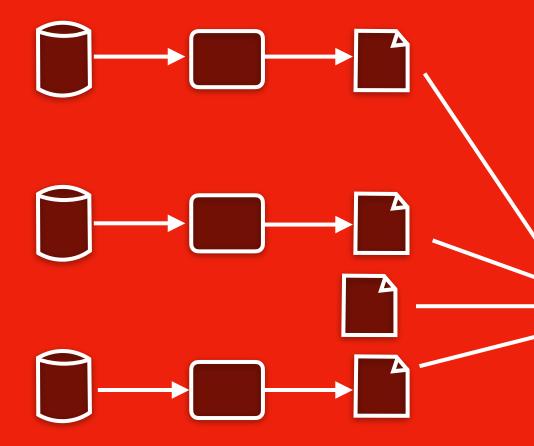


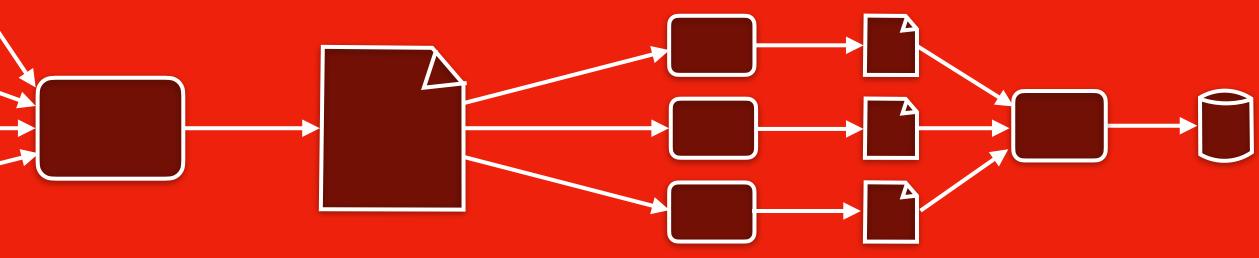












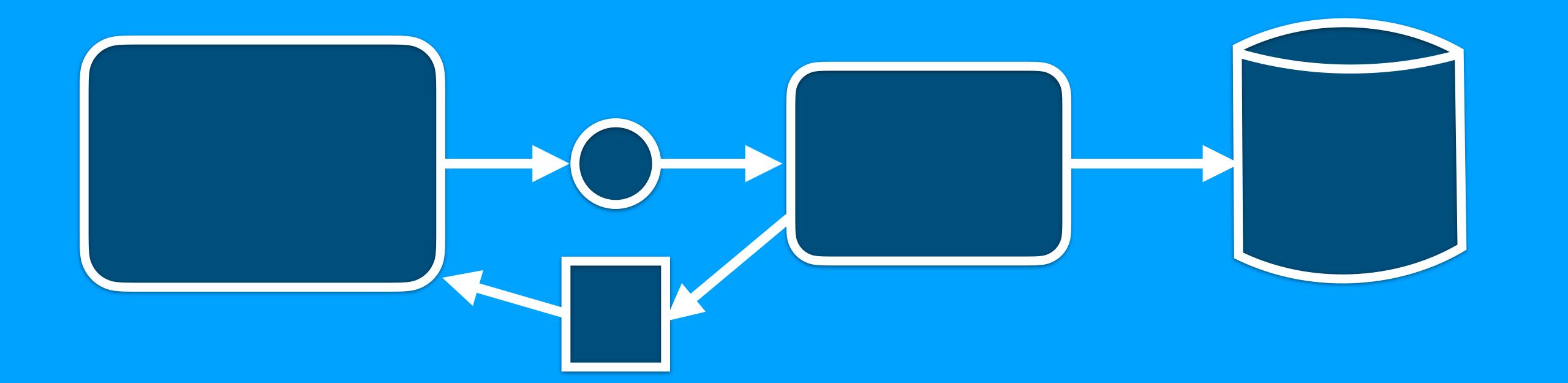


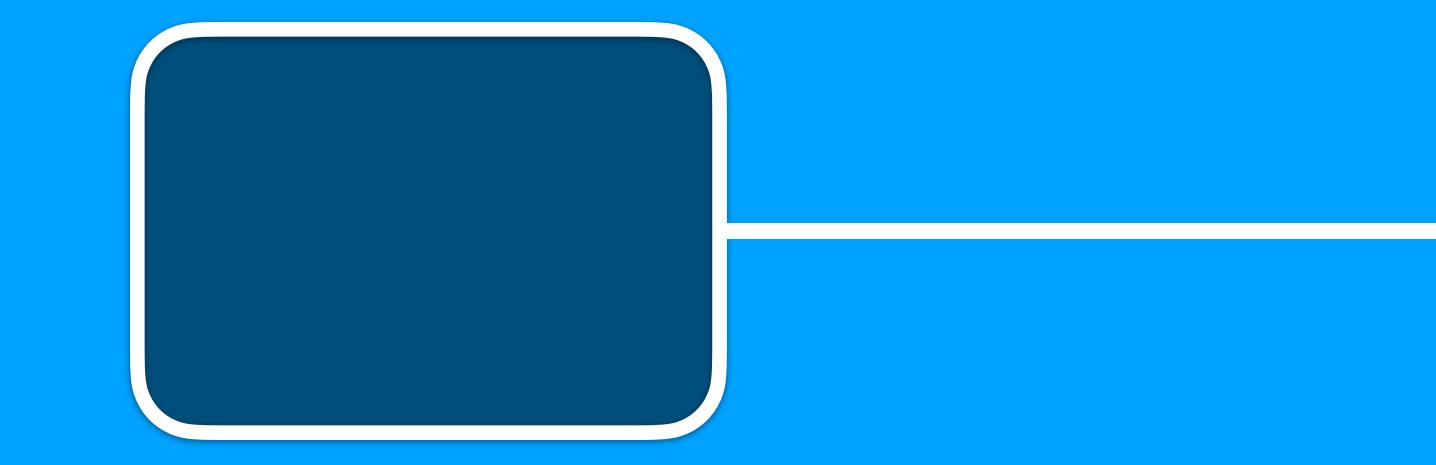
# Ine Virror

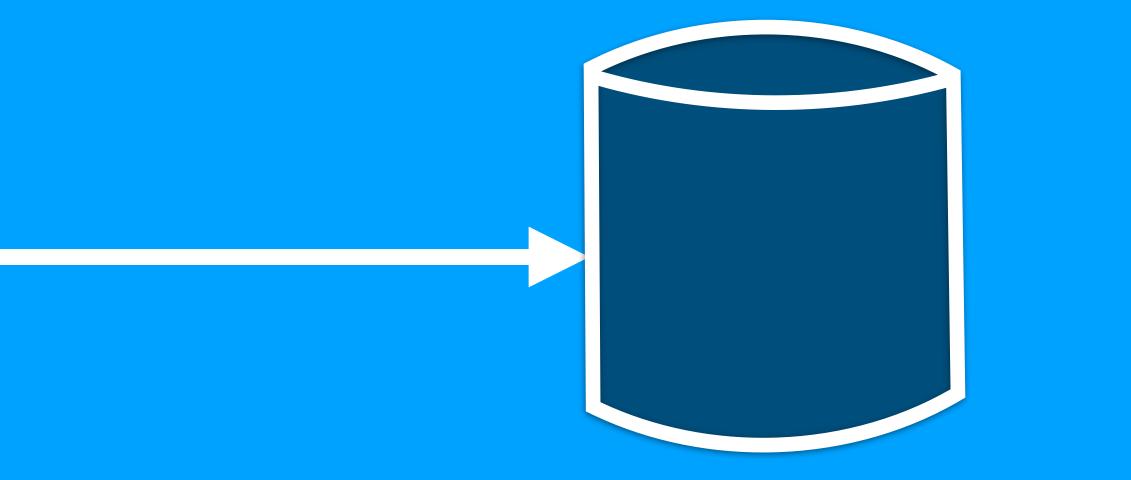
- What is the common factor with these systems?
- "It's not you, it's me"

# Are you repeating the same mistakes over and over?

#### Unnecessary Abstraction

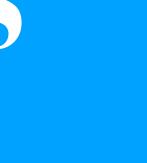


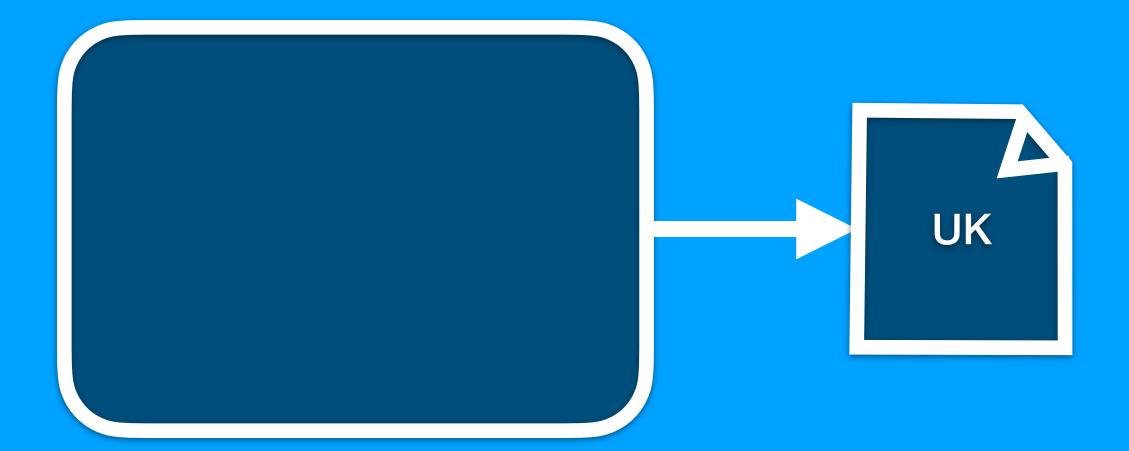


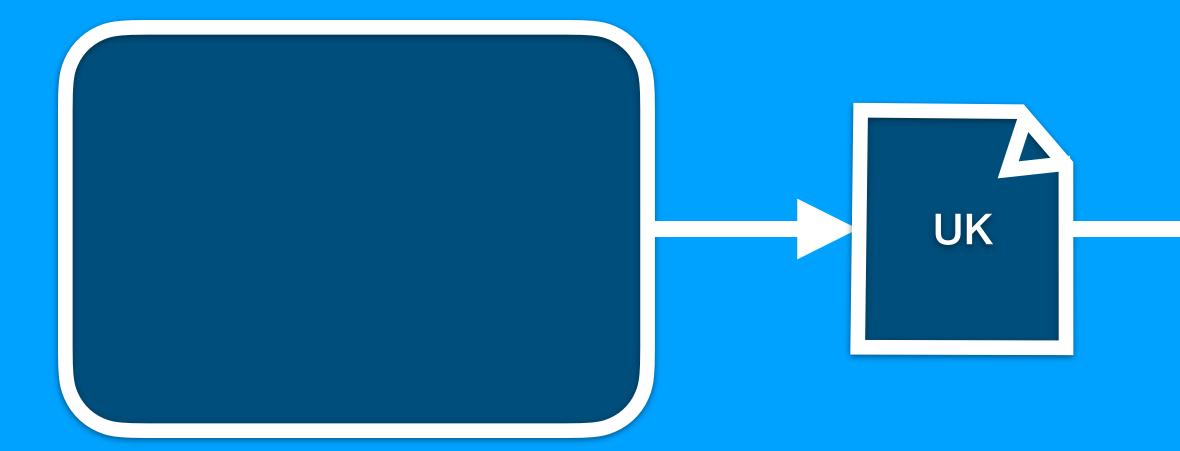


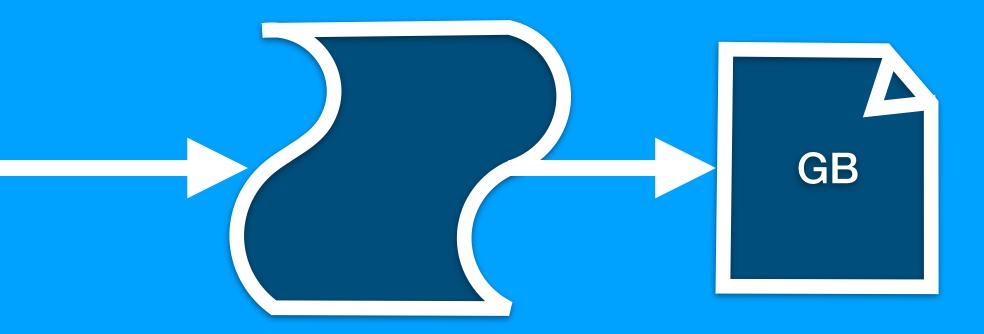
## Solve the problem where it occurs

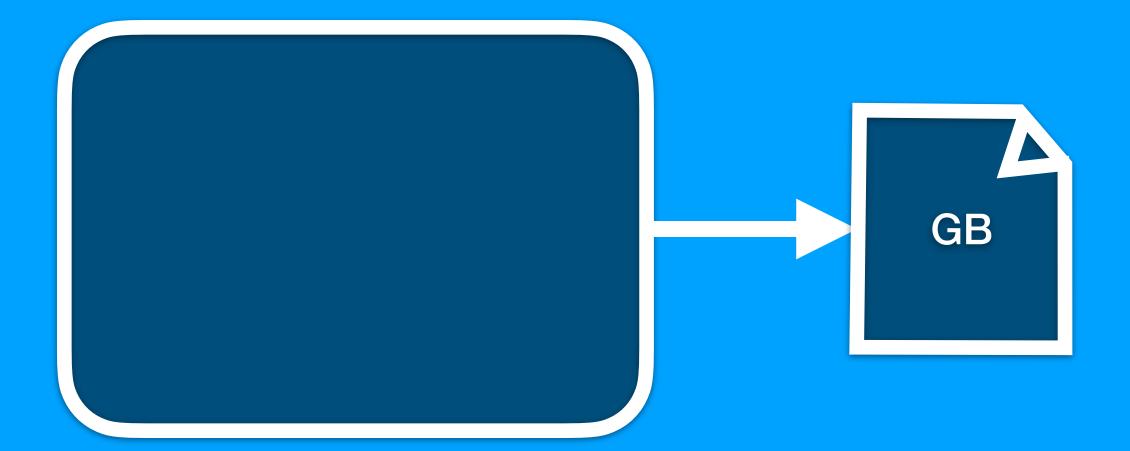














# Communication