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

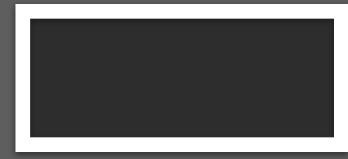


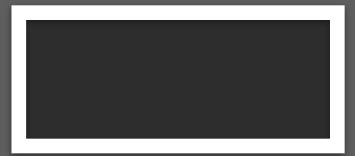
O O O Queue

Awesome Data Transfer Service Local File Storage











Local File Storage



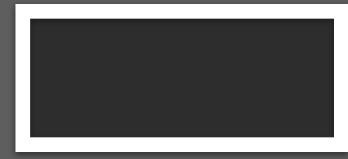


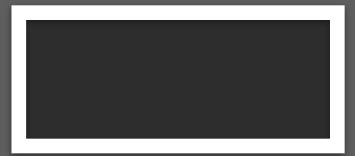


Rsync











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

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Frameworks Bad Libraries Good



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



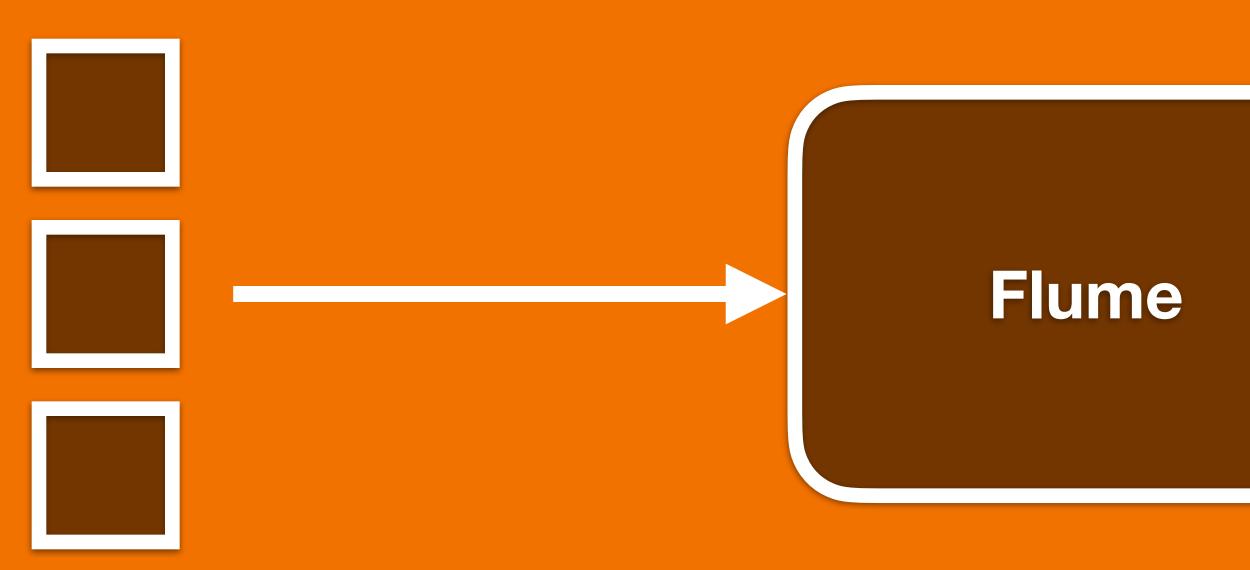
- Never helps you in any way
- Not good at anything
- "Why haven't left?"

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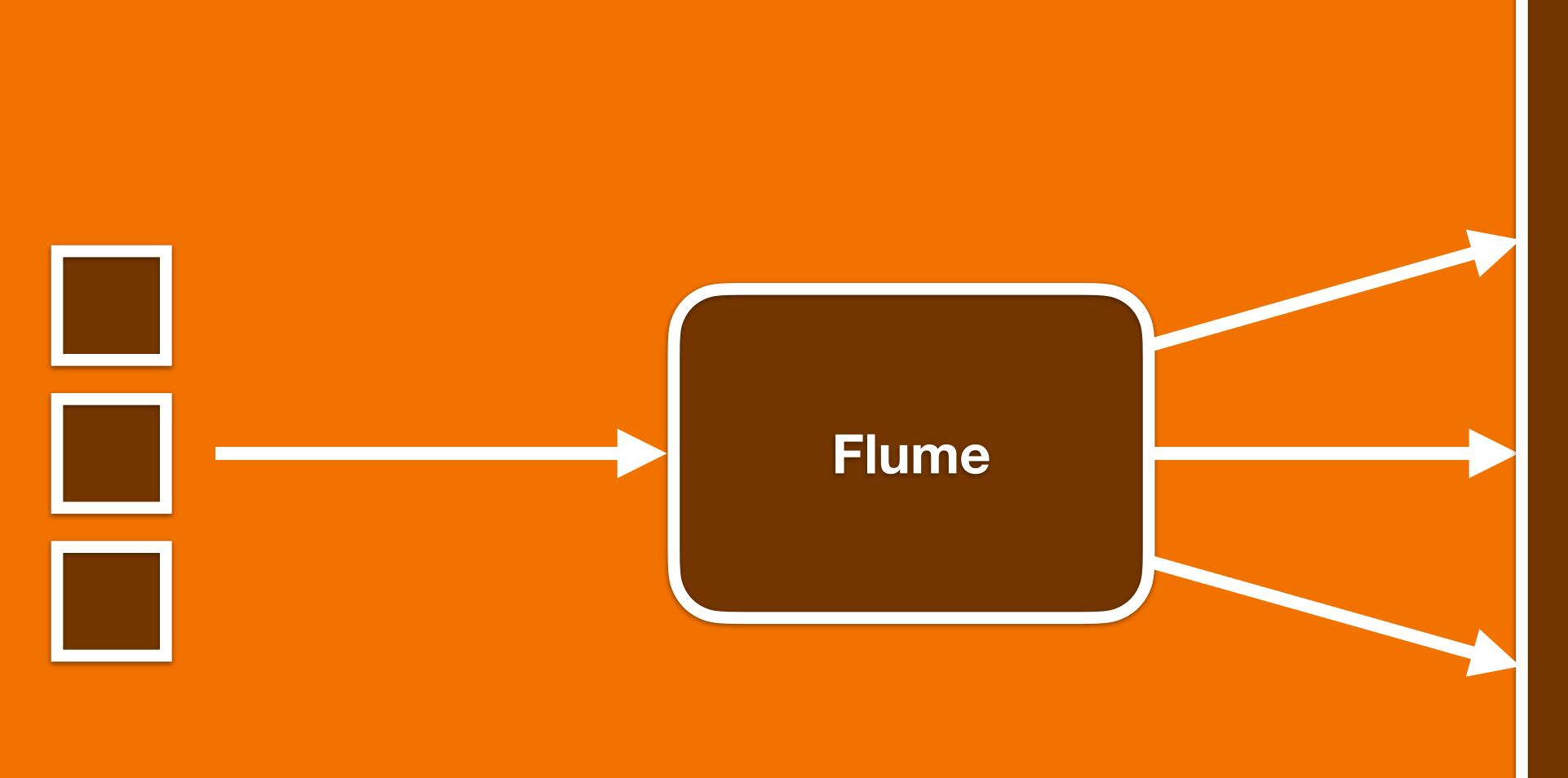






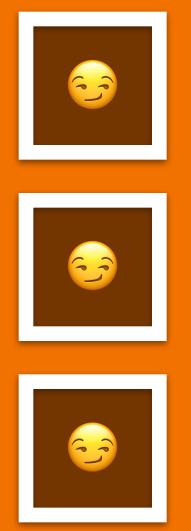


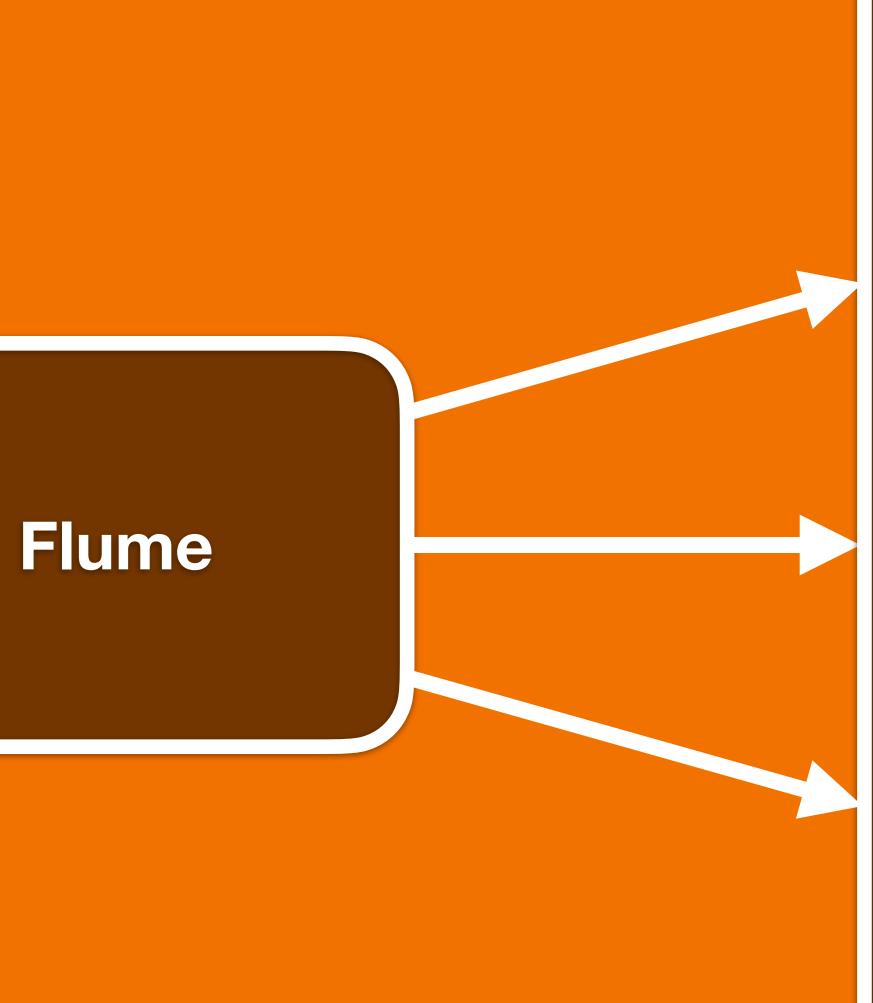






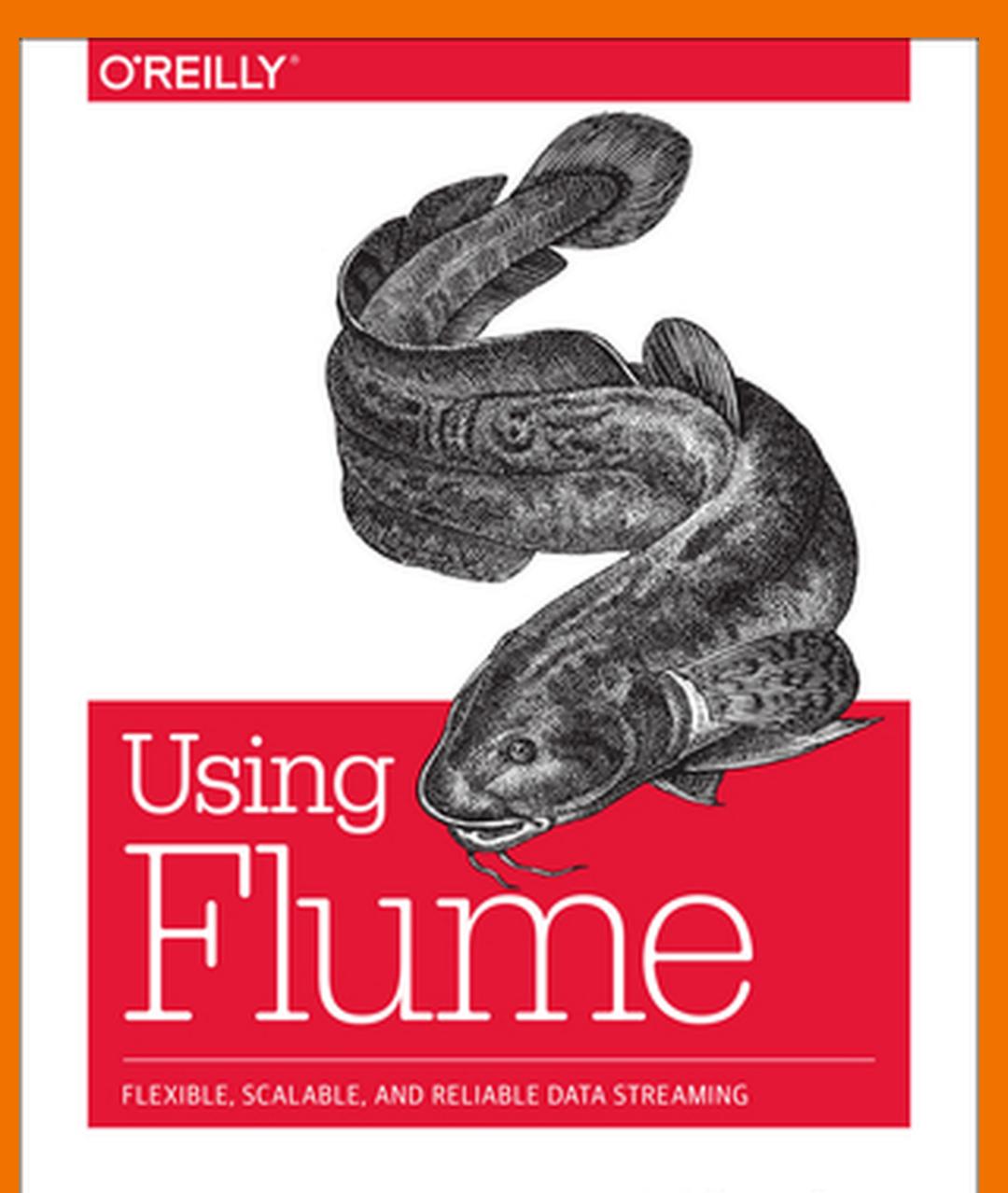




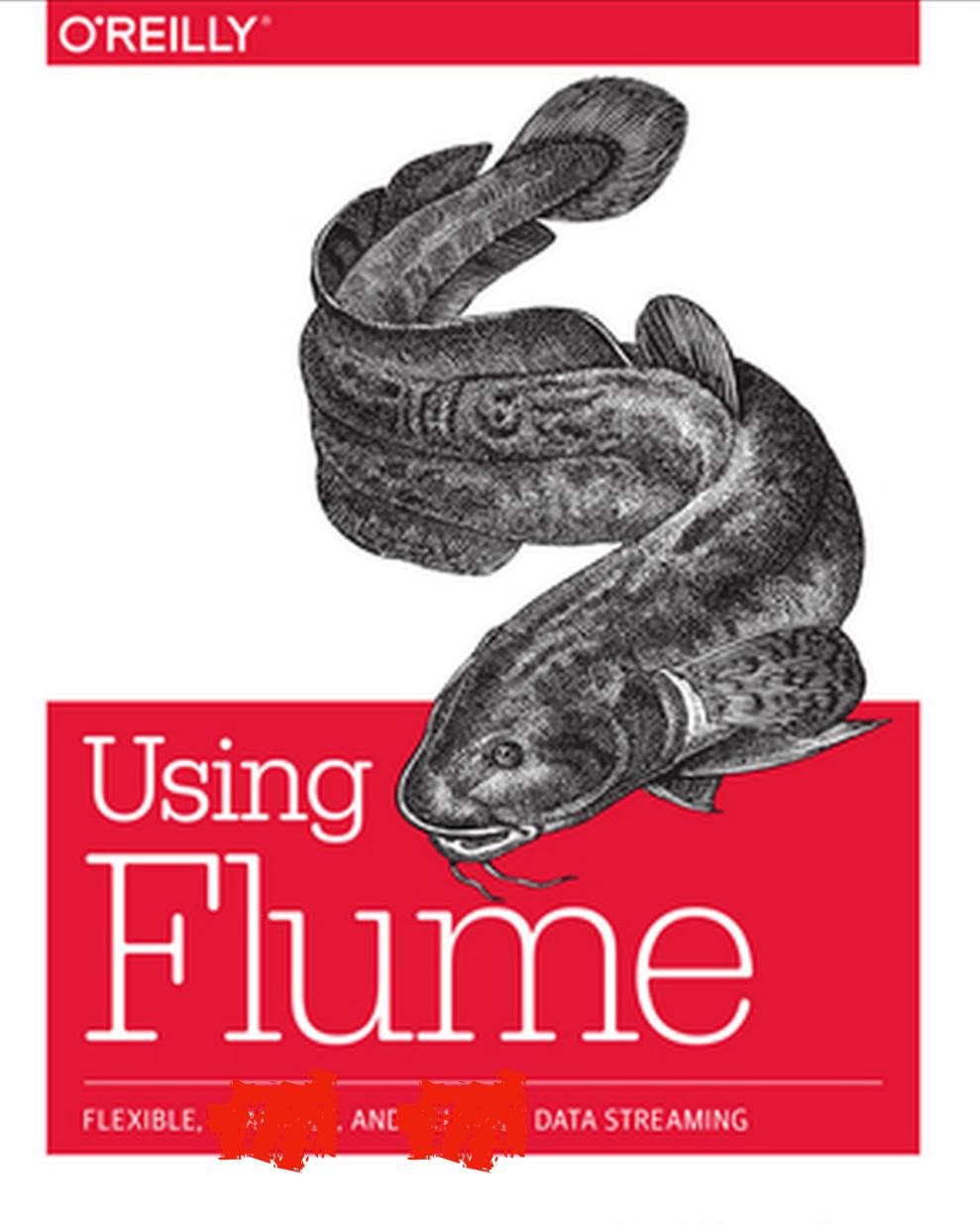


HDFS





Hari Shreedharan



Hari Shreedharan

Using Flume

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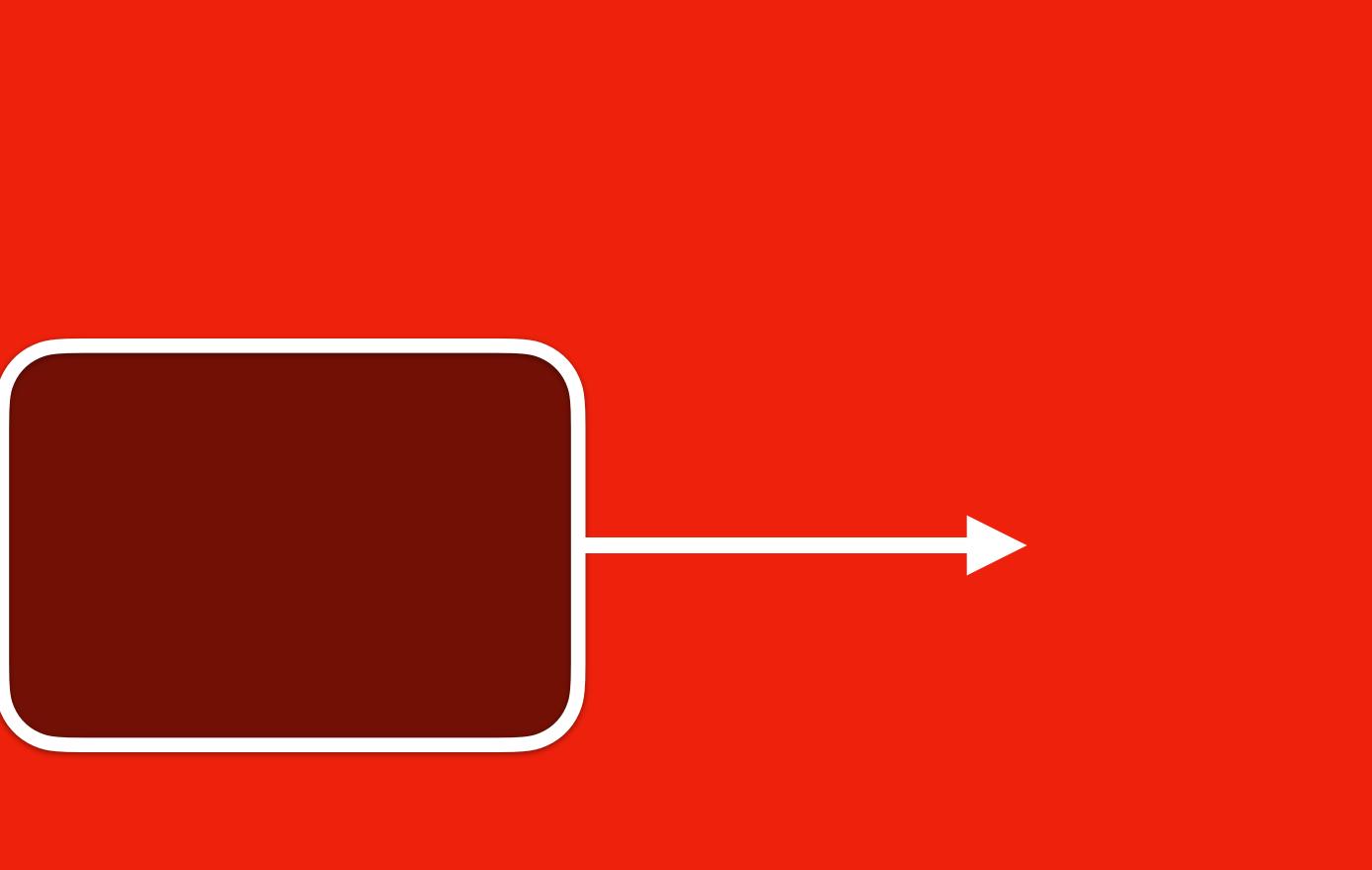
You can do better than Him

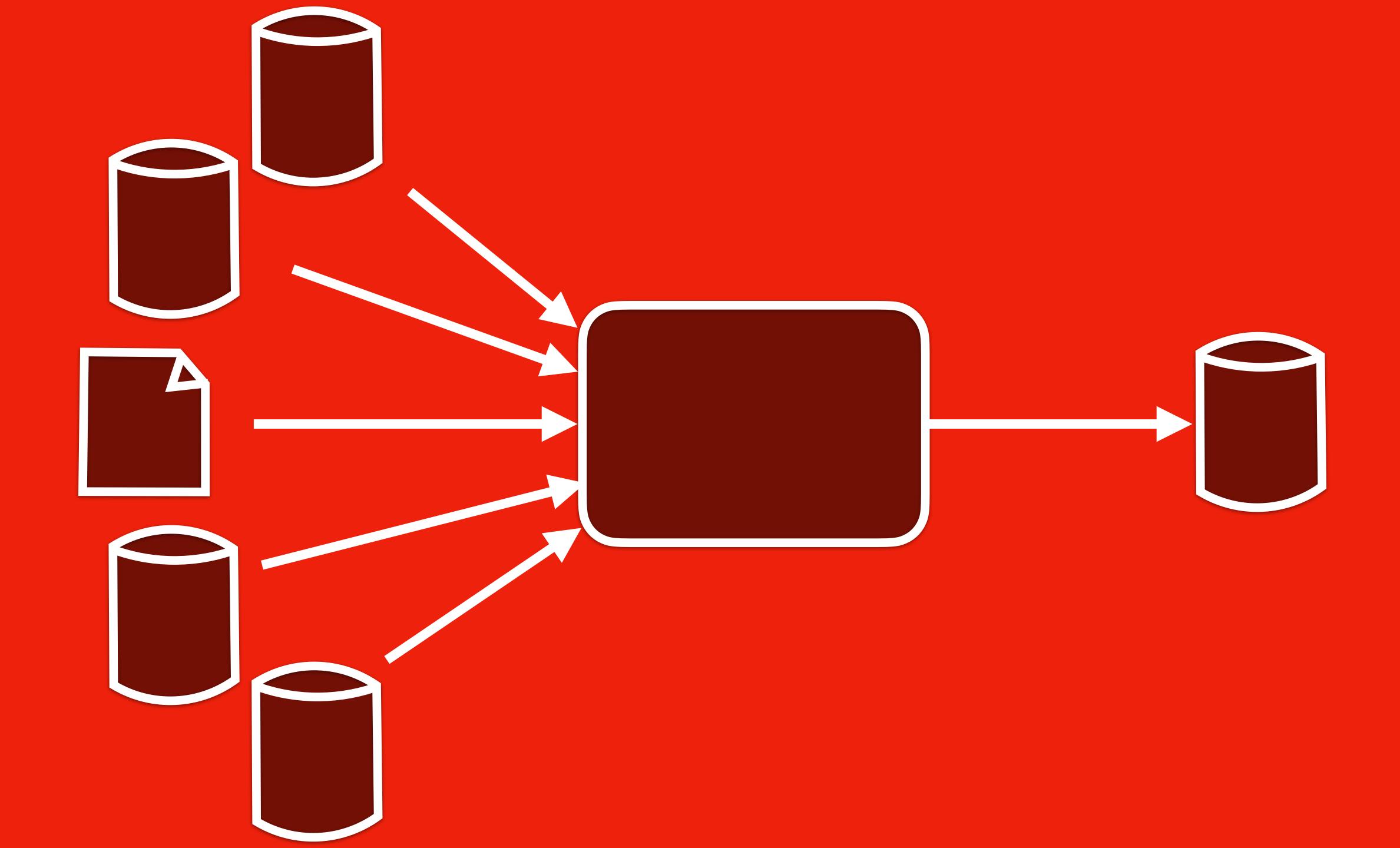
- Key Value: Redis, Dynamo, BigTable
- Document Store: SQL, Elastic Search
- Map Reduce: Spark

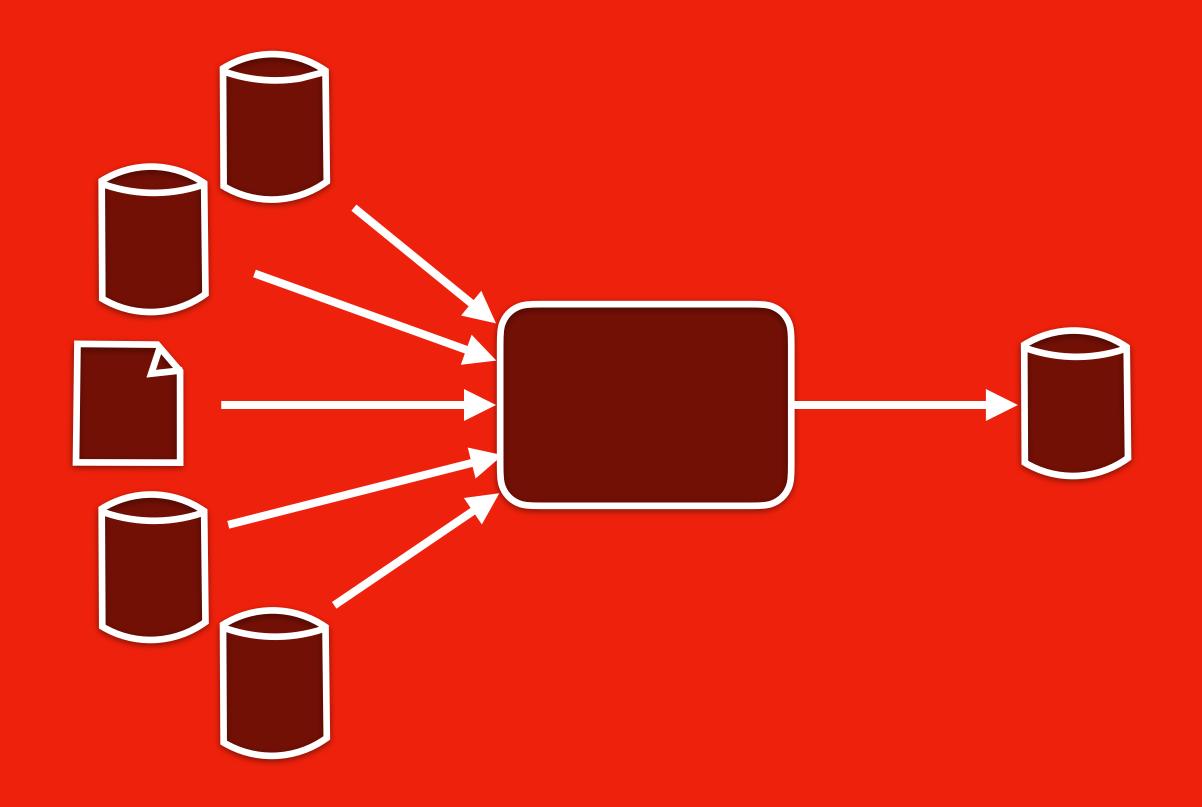
o, BigTable astic Search

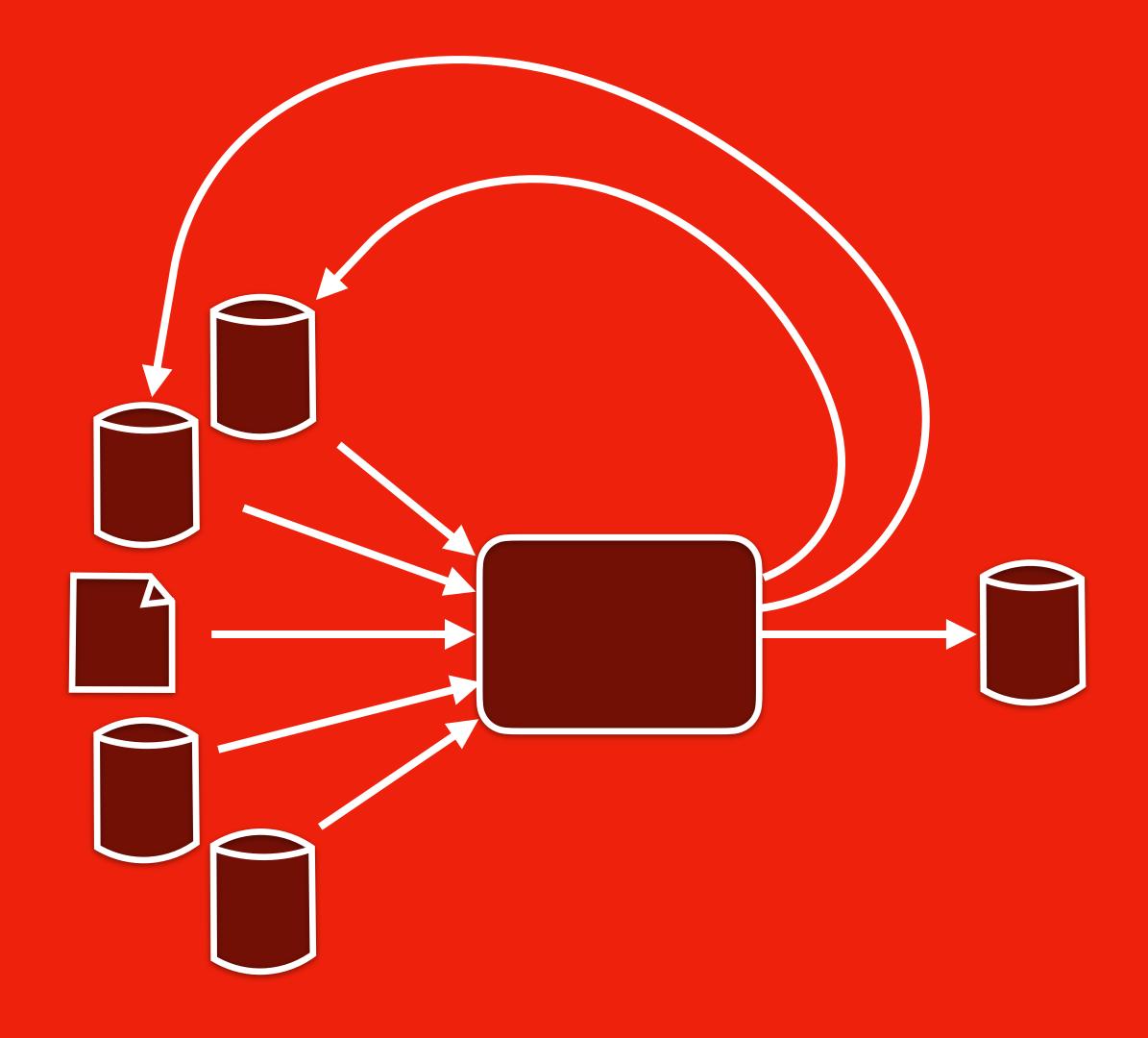
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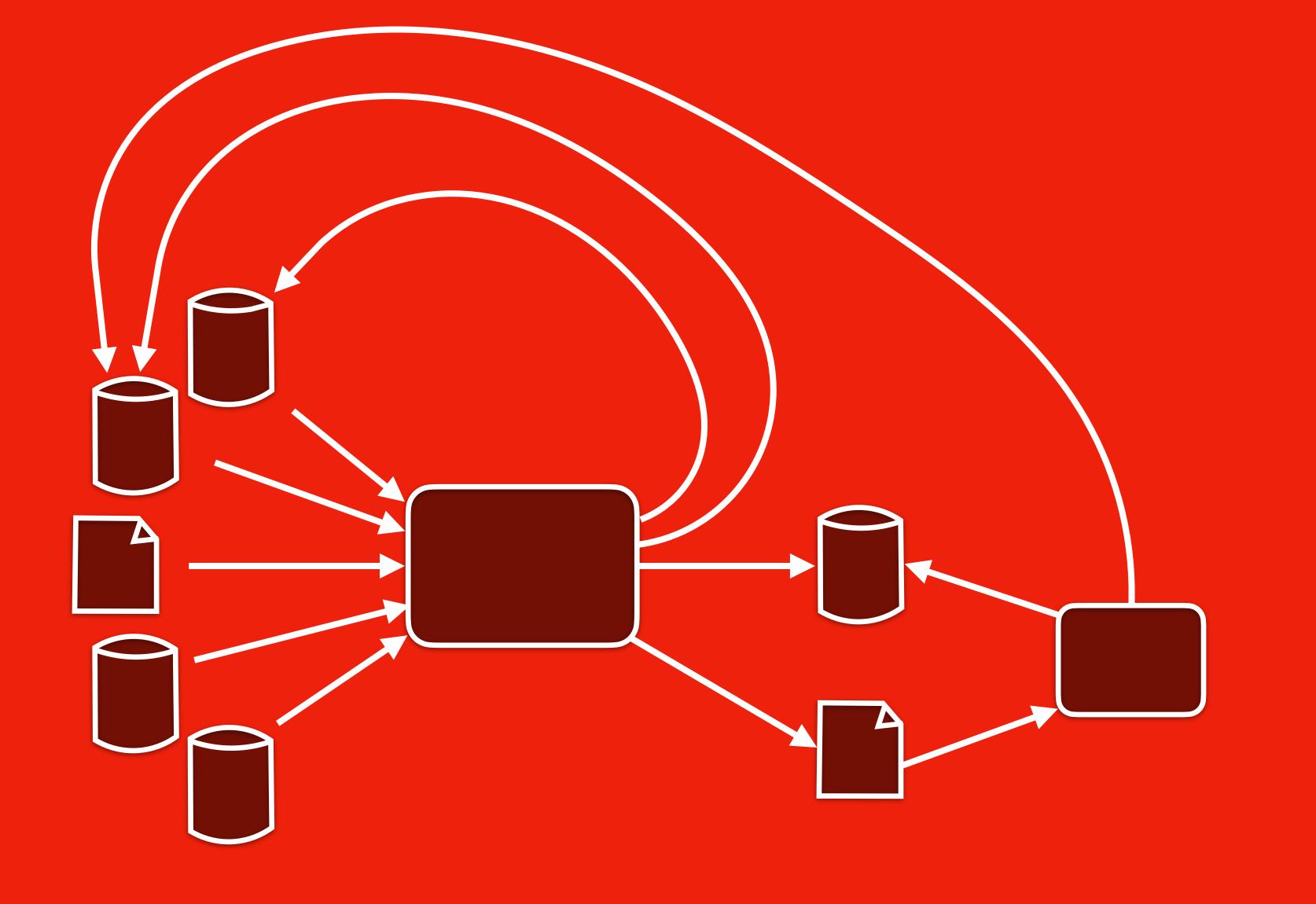
- Almost nobody understands how it works • Those that do are actually afraid of of it Fixing a problem takes huge amounts of time You've lost all hope and can't even imagine escape

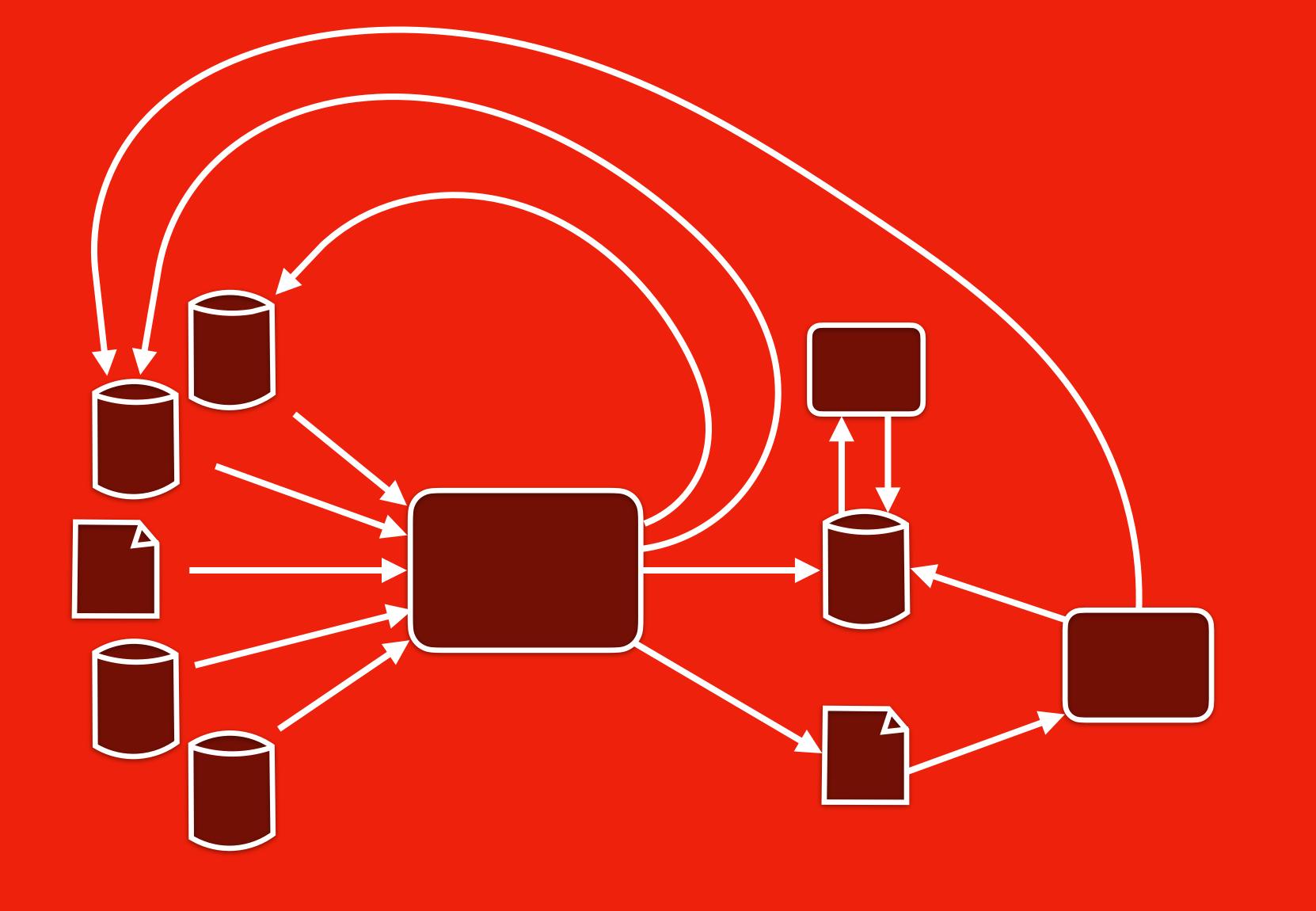


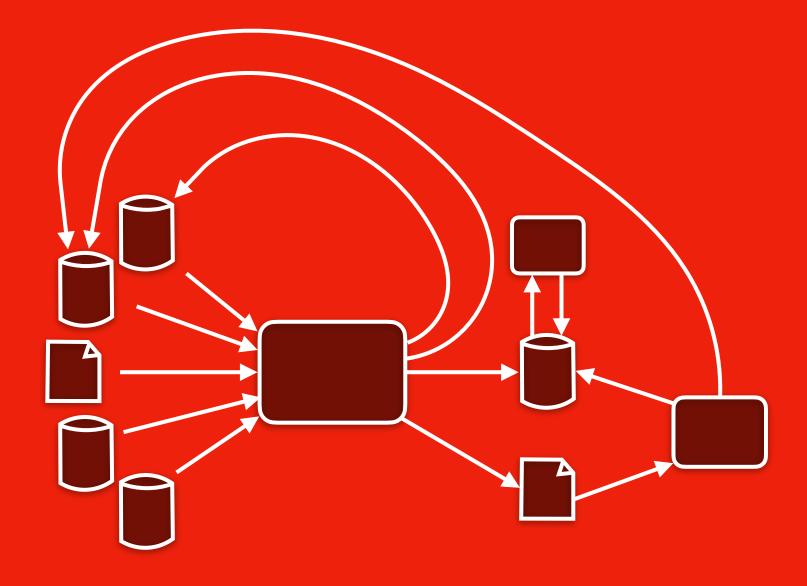




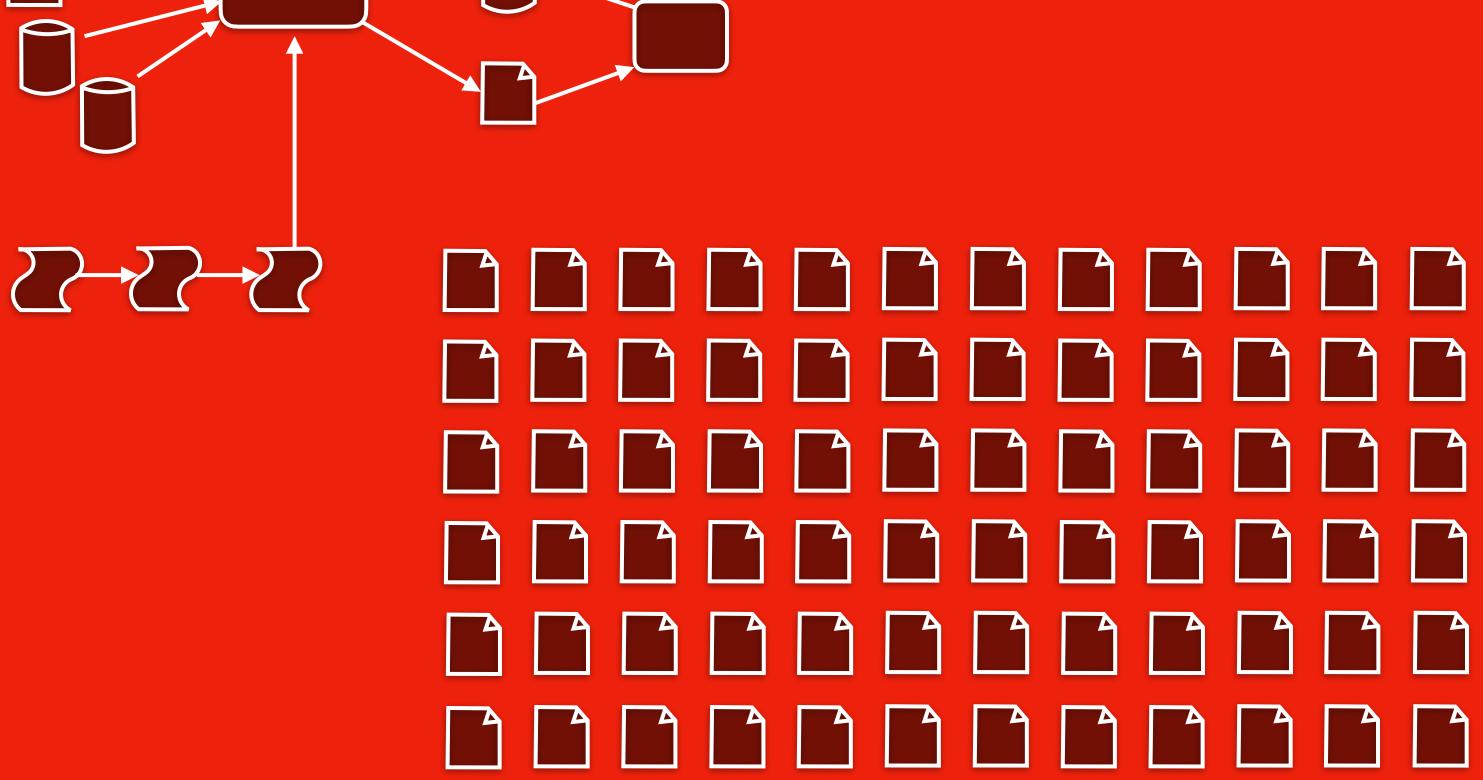














Sometimes killing is the only option

Determinism

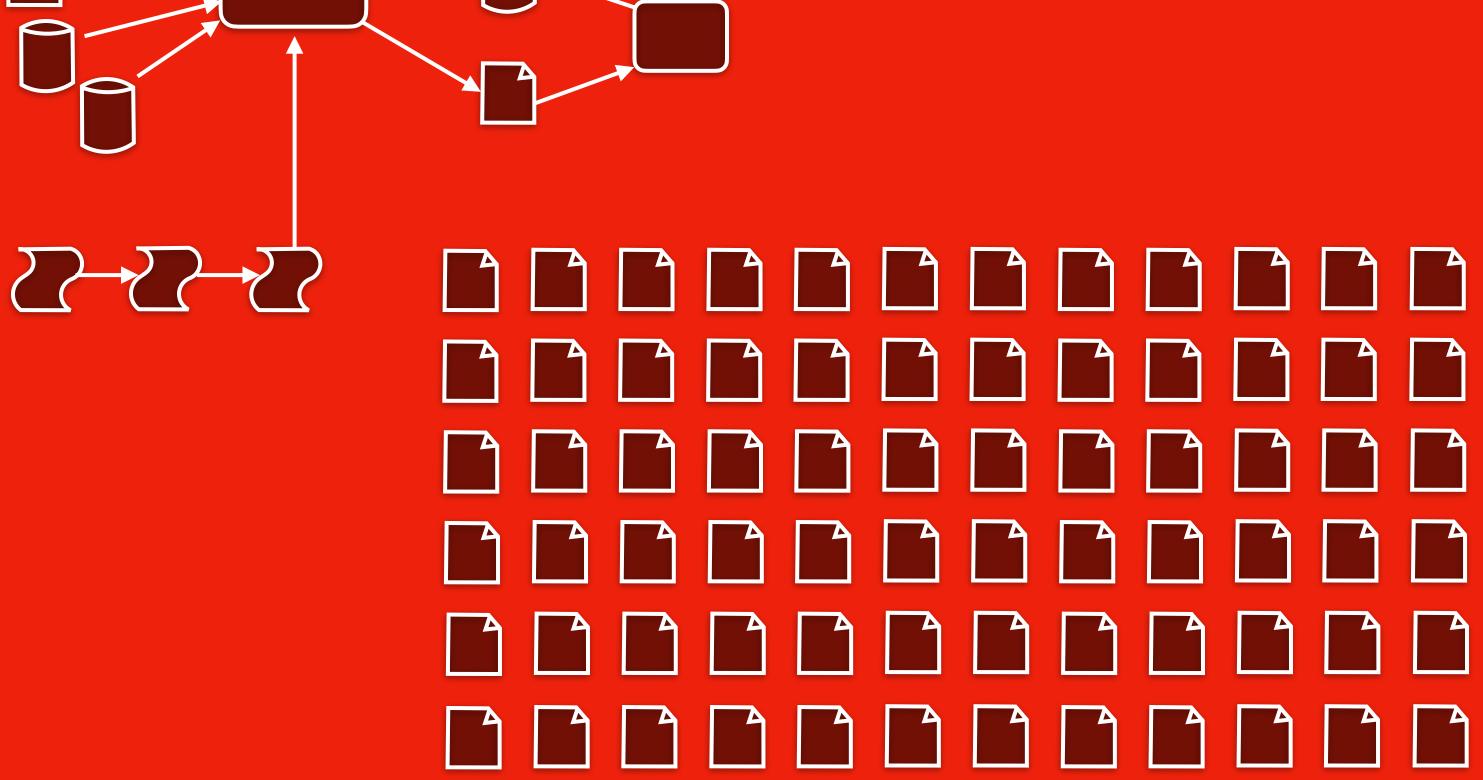
Consistency over Correctness



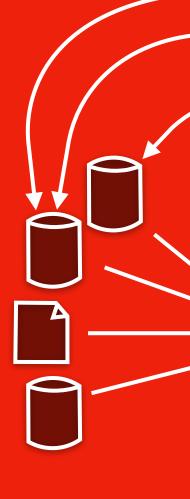
In batch processing your data IS your logs

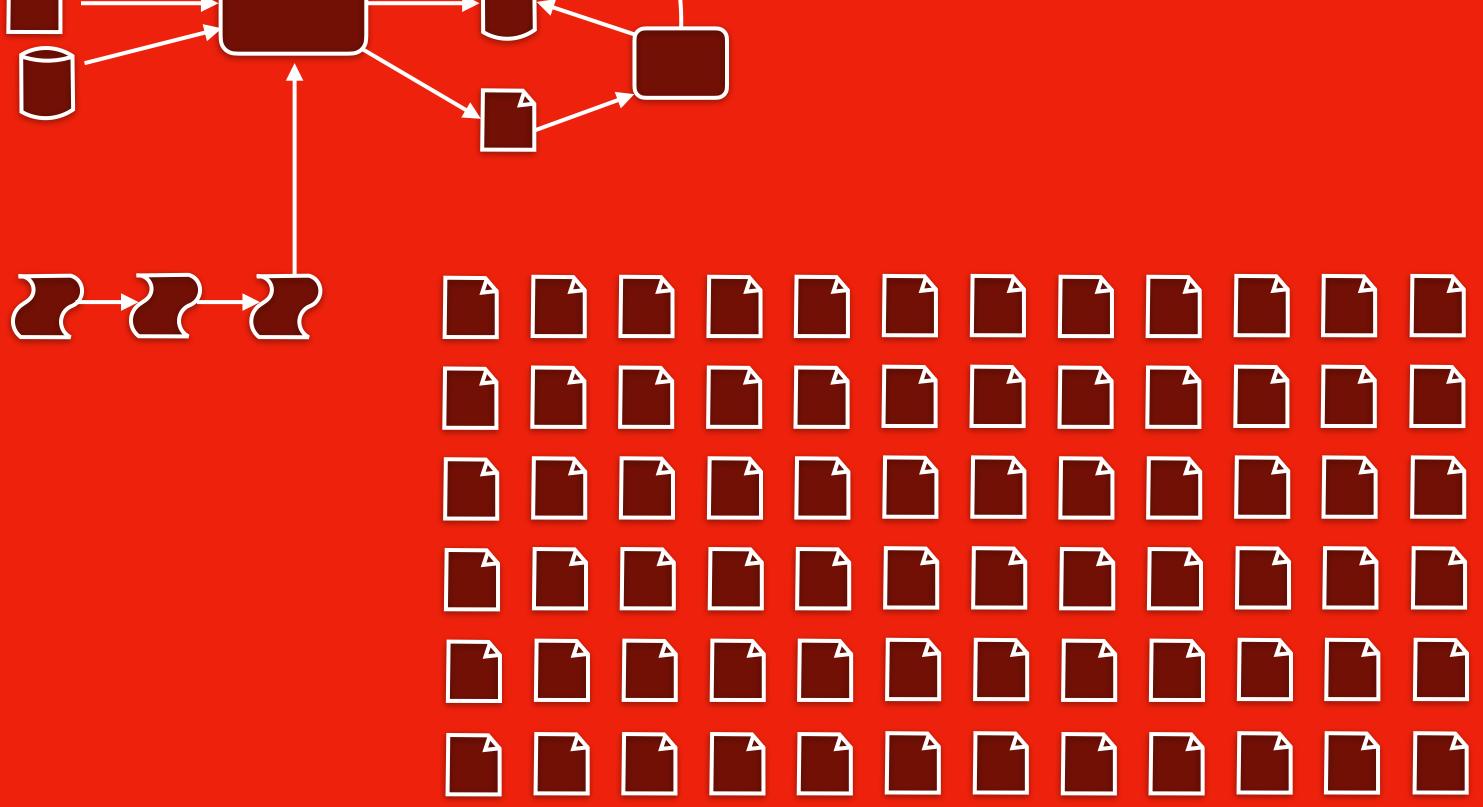
How easily can you see what is happening?



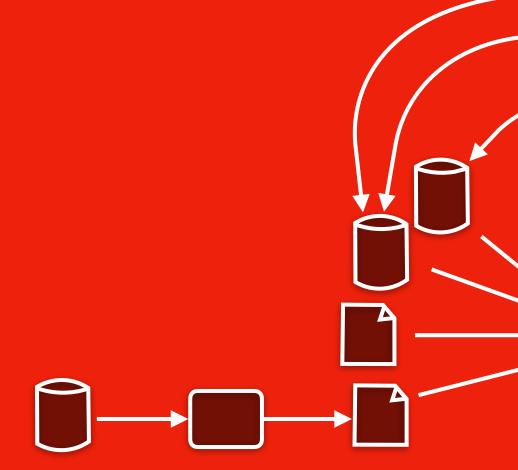


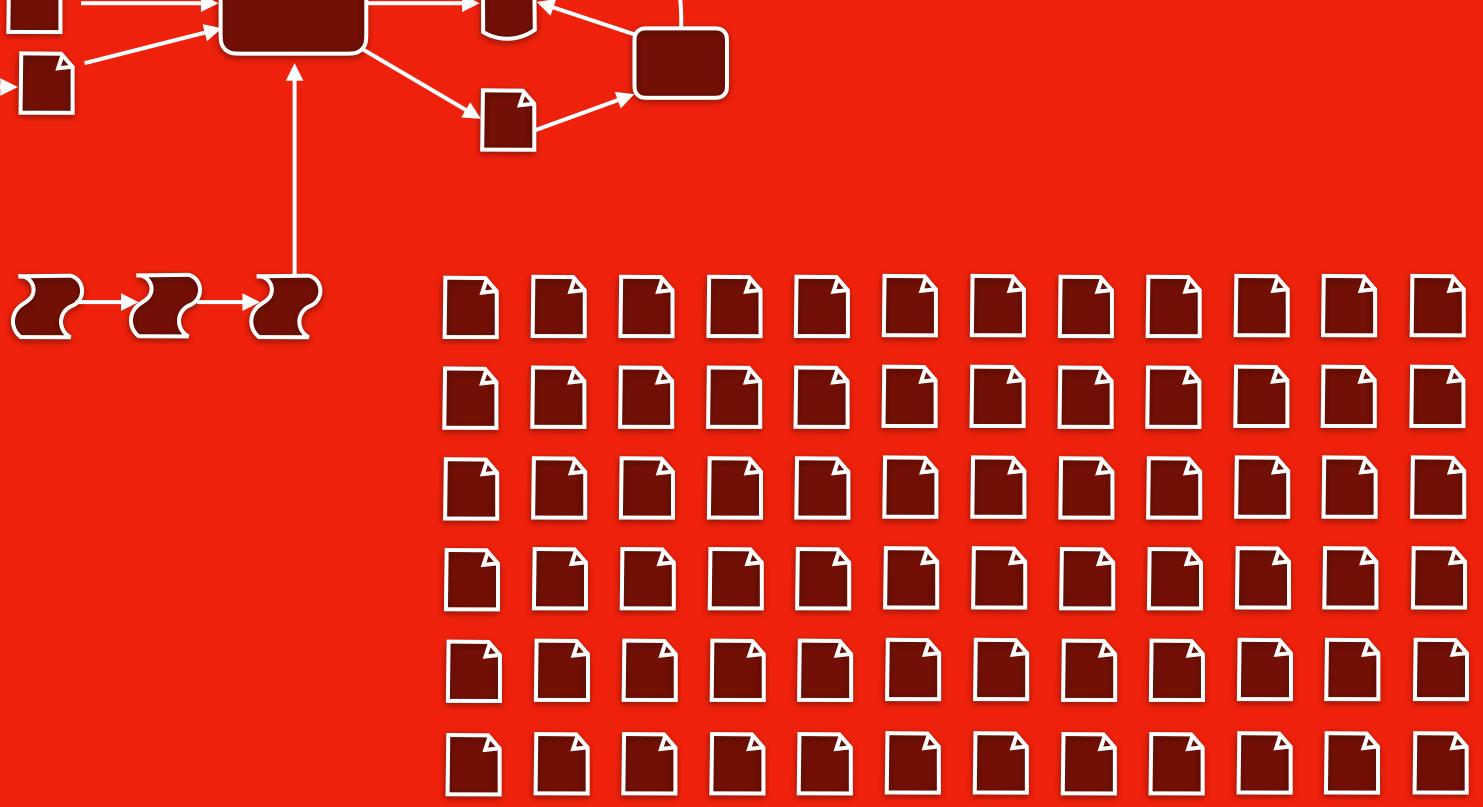




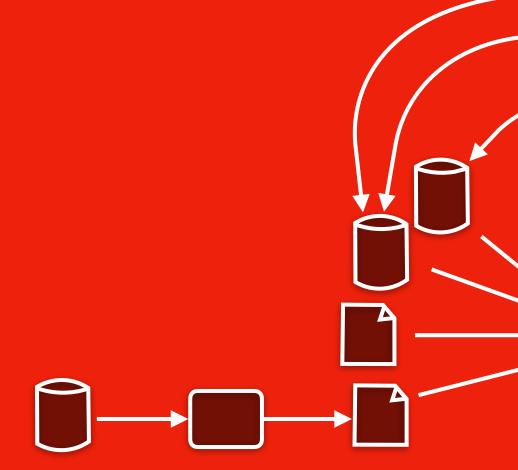


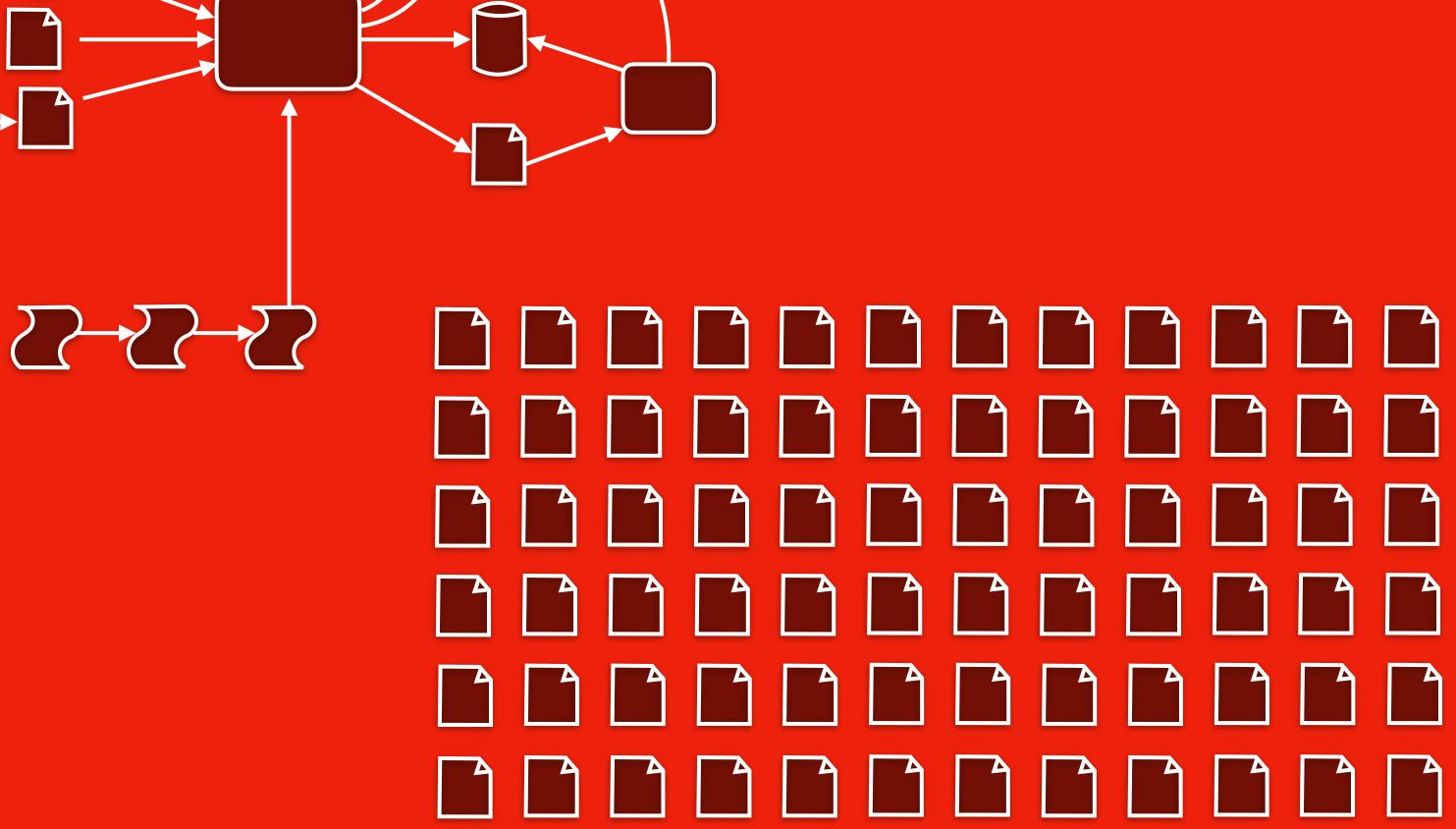




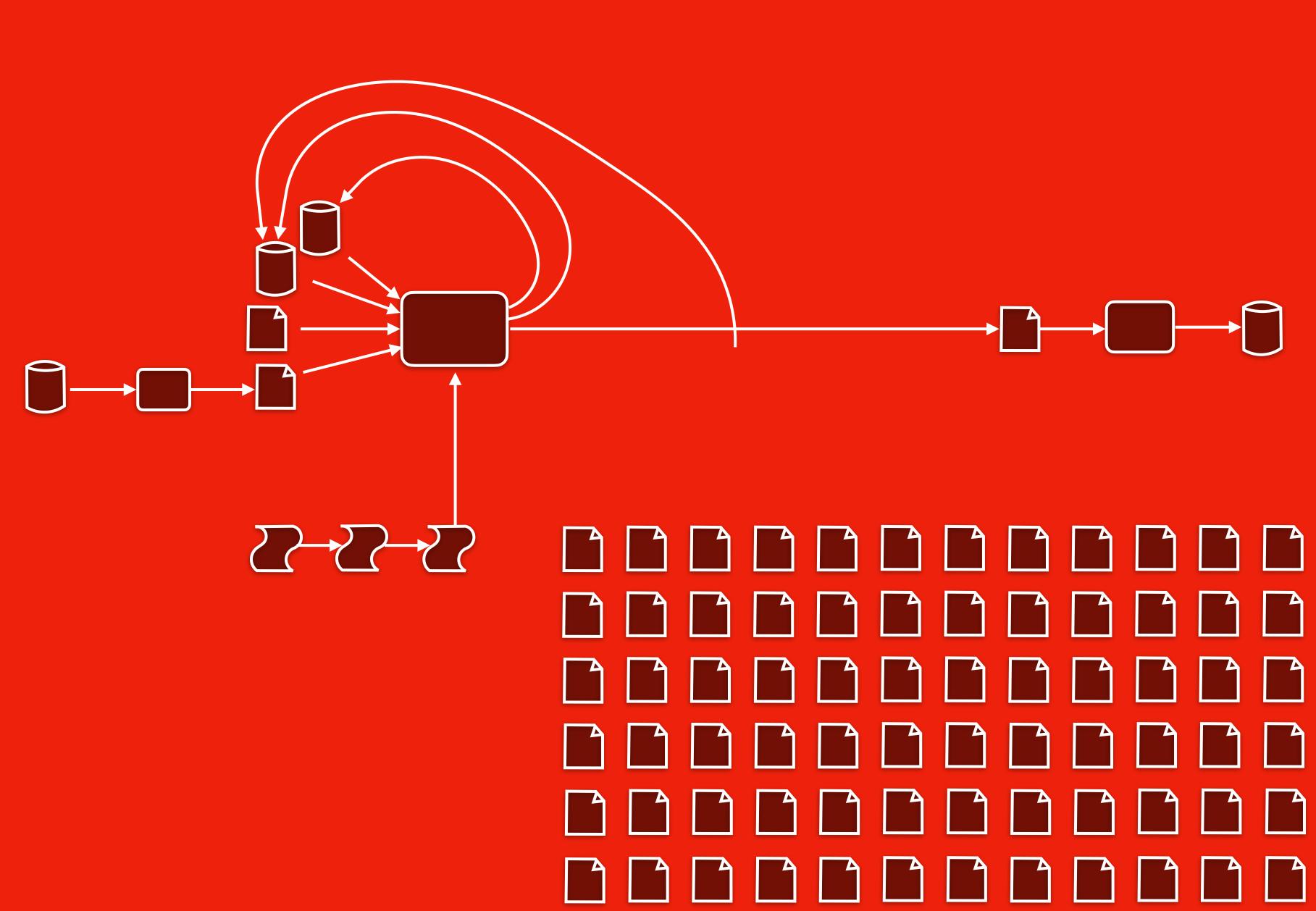


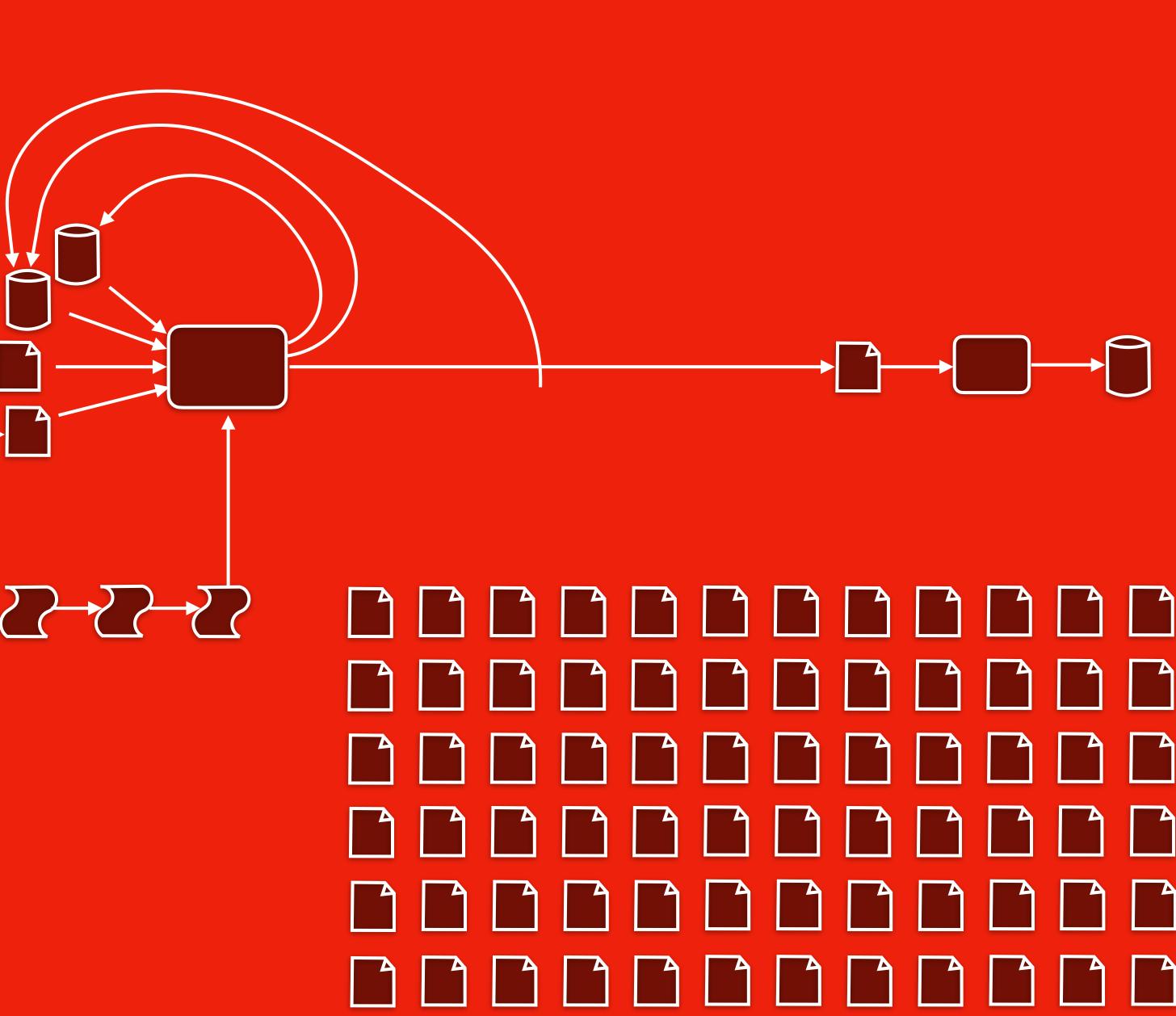


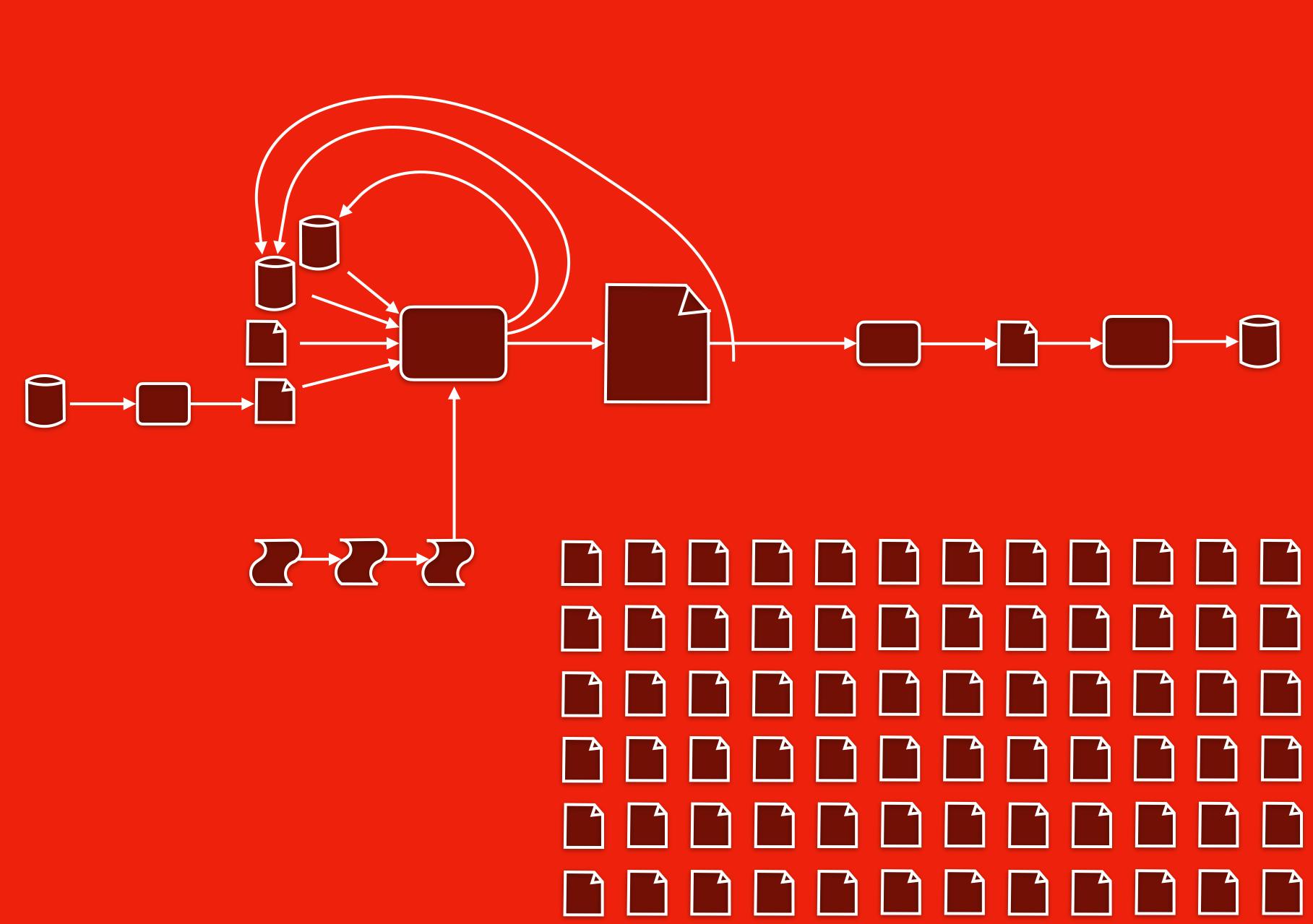




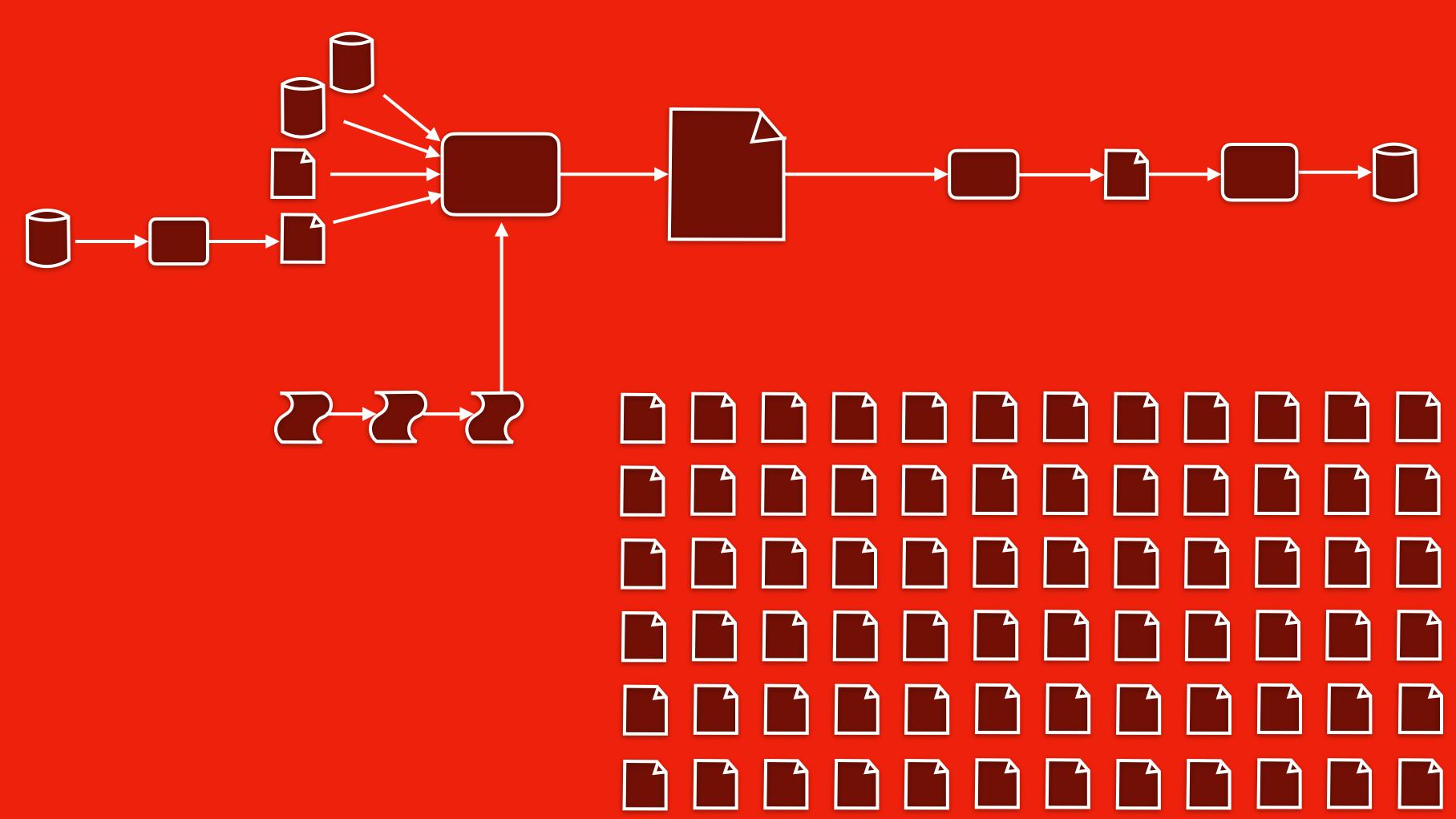


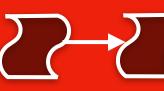


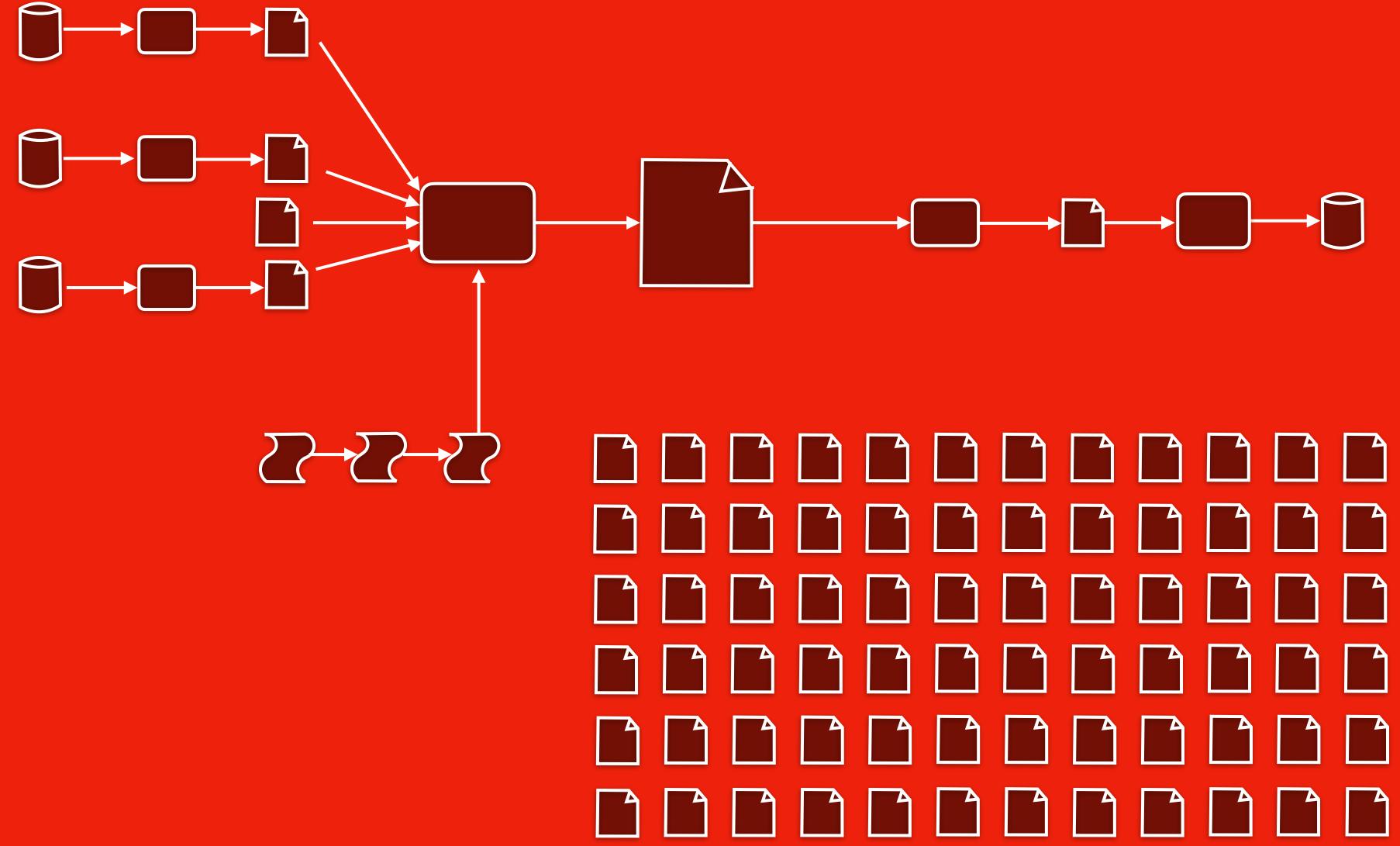


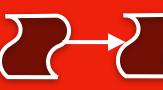


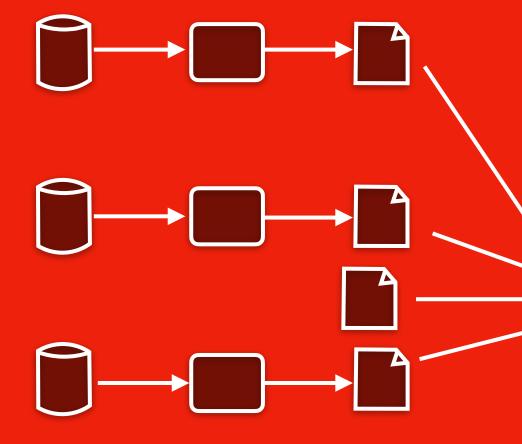




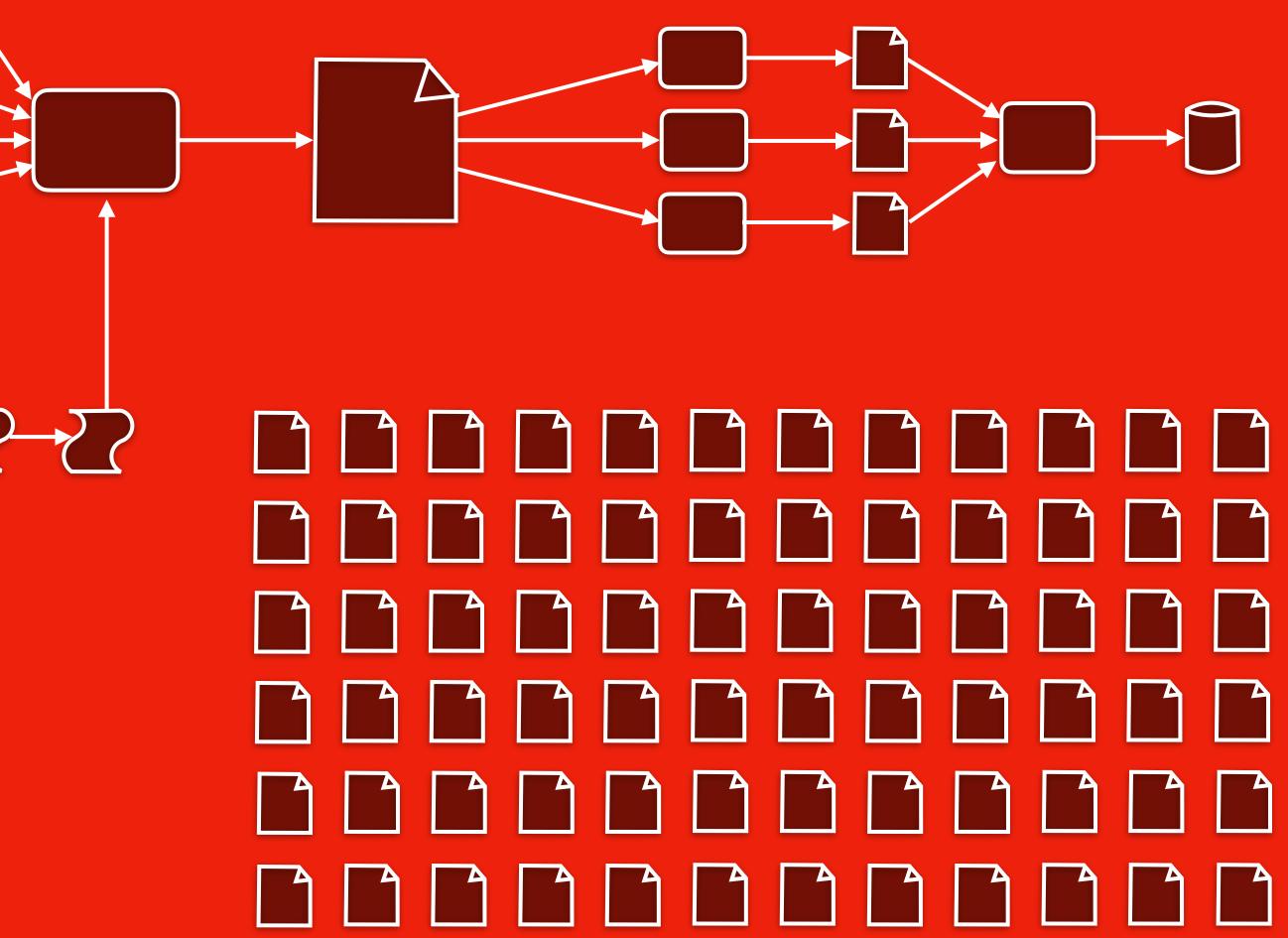


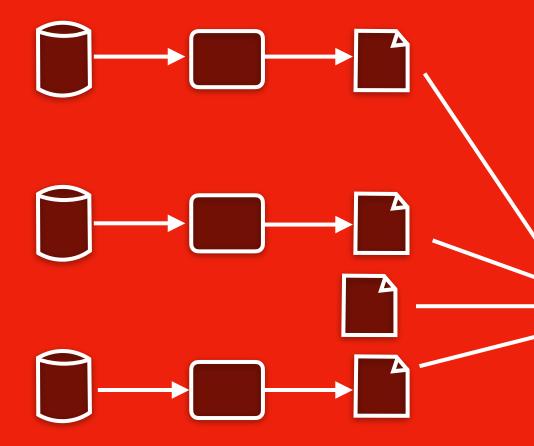


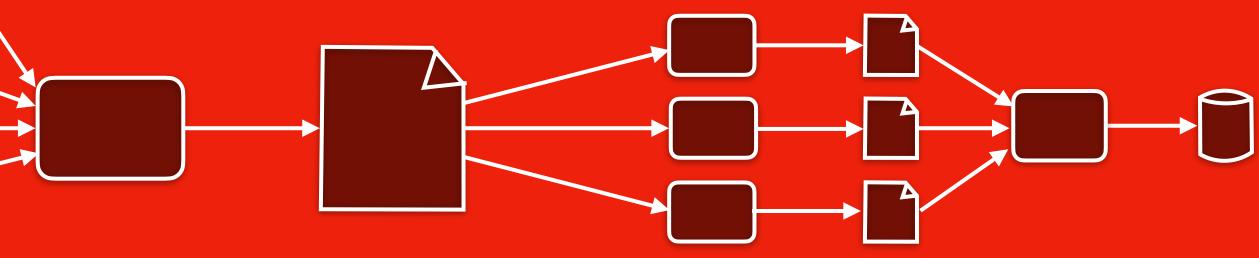












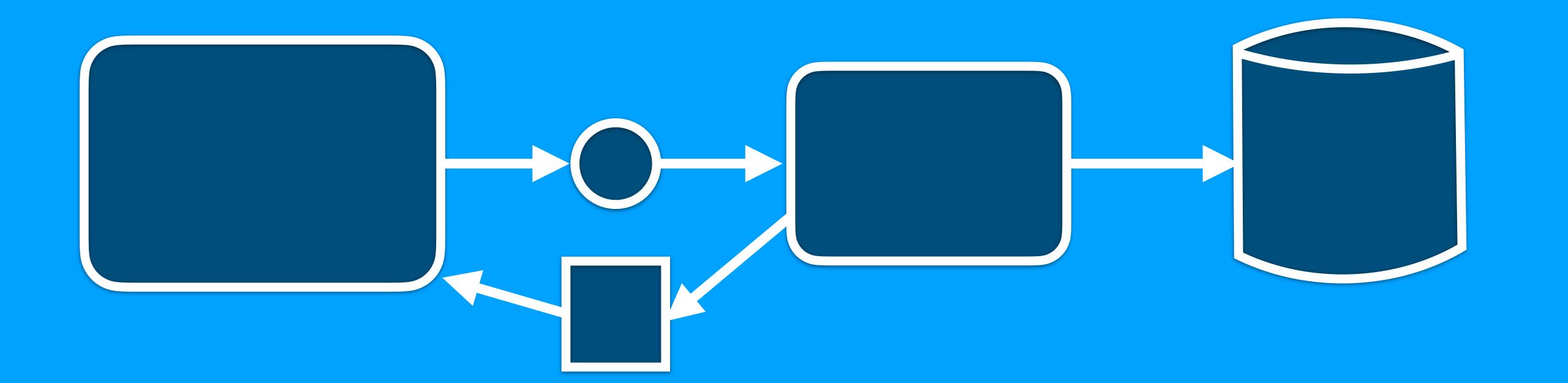


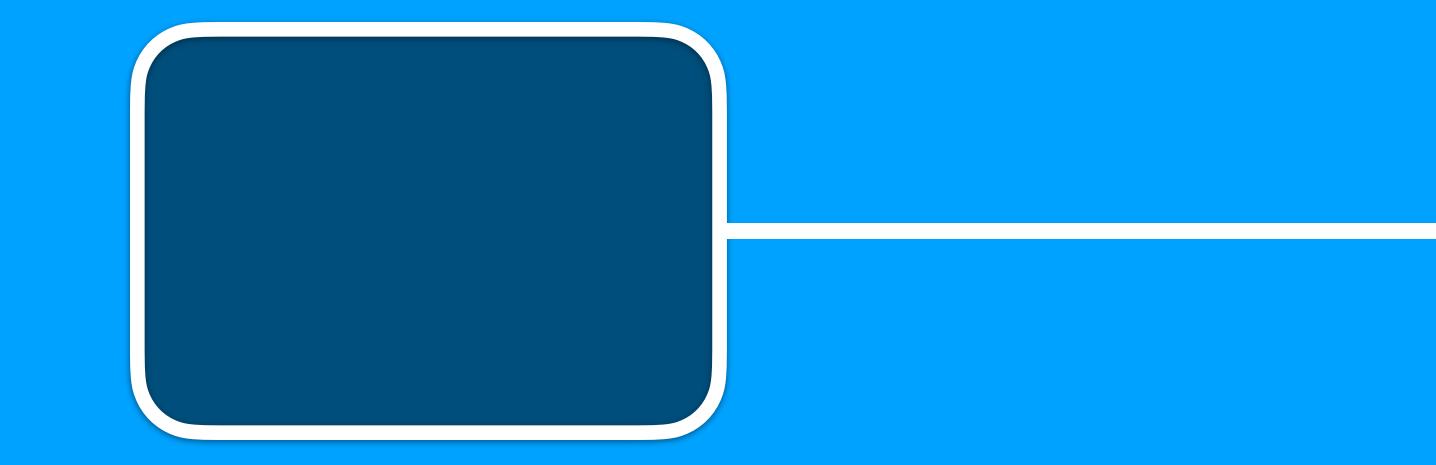
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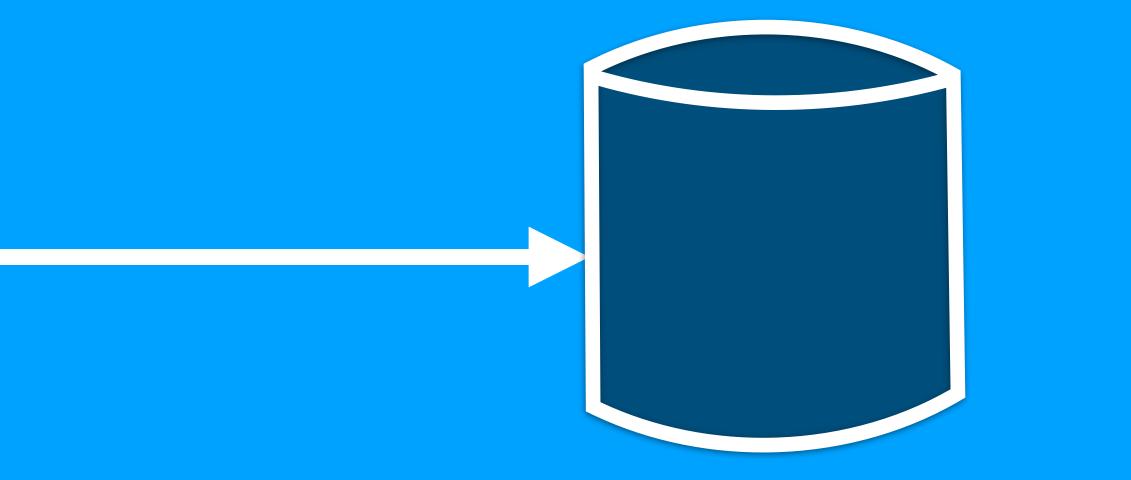
- What is the common factor with these systems?
- "It's not you, it's me"

Are you repeating the same mistakes over and over?

Unnecessary Abstraction

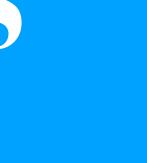


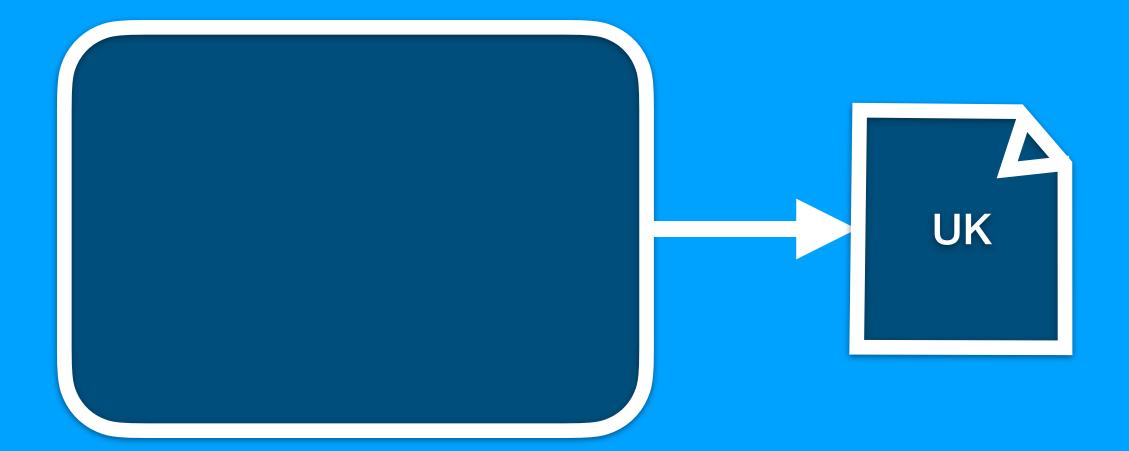


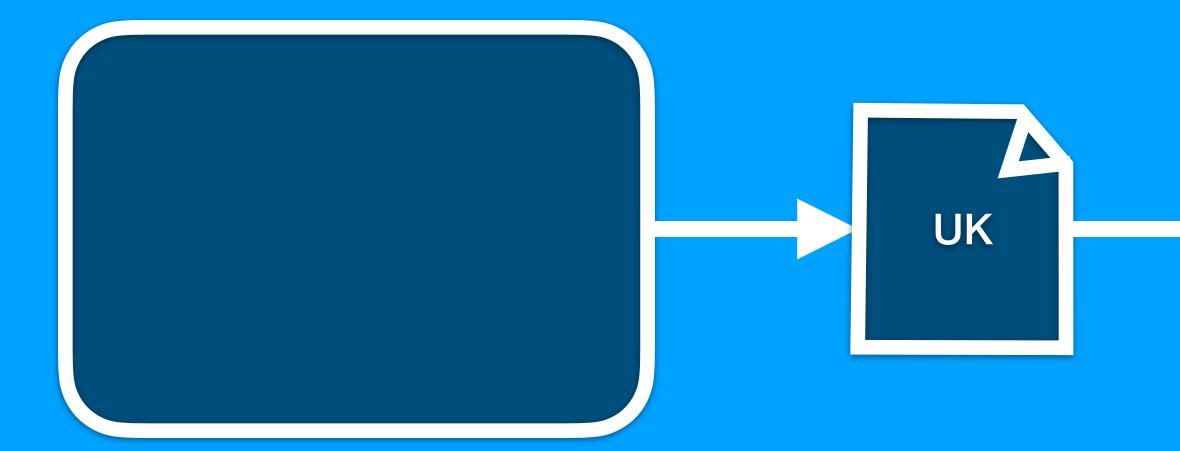


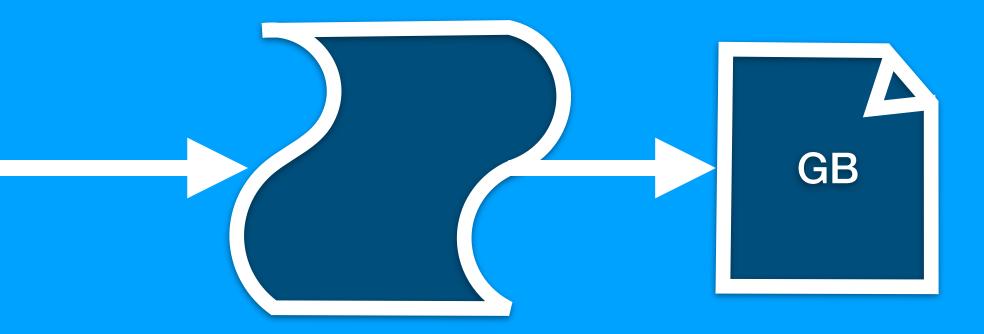
Solve the problem where it occurs

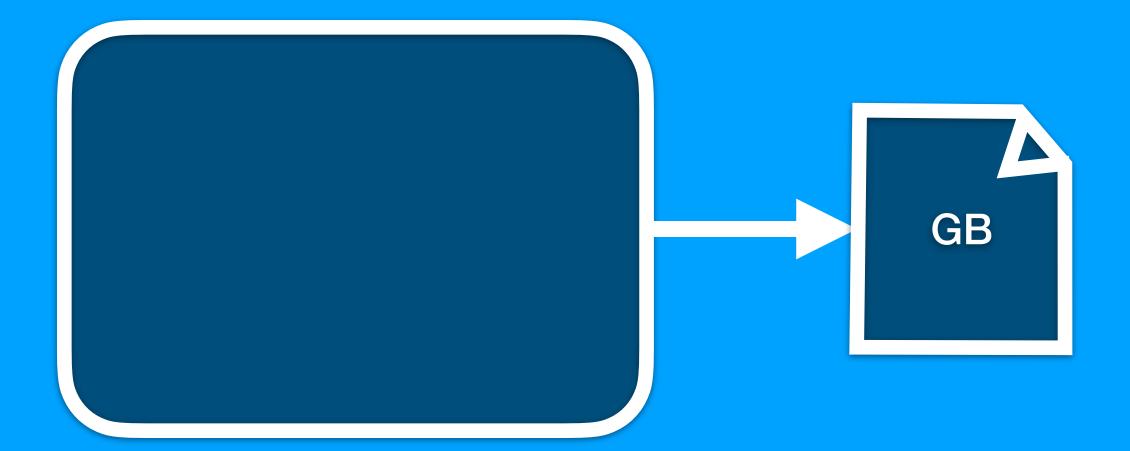














Communication