

# Challenges of Traditional Stream Processing Systems



# Fast Failure and Straggler Recovery



Failure and  
Recovery

- There are chances of a node failures
- The system must automatically recover from failures
- Traditional systems makes recovery from failures difficult

# Load Balancing



Load Balancing

- Uneven distribution of workload
- Occurs in a large cluster and varied workloads
- Traditional systems find it difficult to adapt to varying workloads

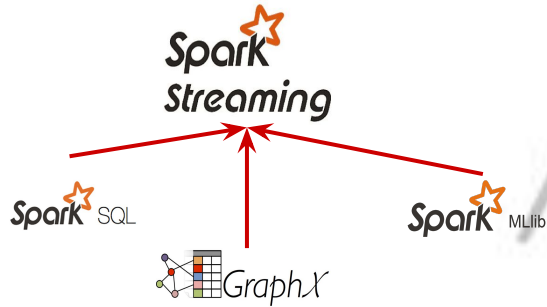
# Unification of Various Workloads



Combining  
Streaming  
Data with static  
datasets

- It is fascinating to see the unification of streaming, batch and interactive workloads
- Traditional systems do not support ad-hoc queries
- Requires a single engine

# Advanced Analytics



Integration of advanced  
libraries

- Advanced analytics like machine Learning and SQL queries
- Have Common abstraction



Thank You