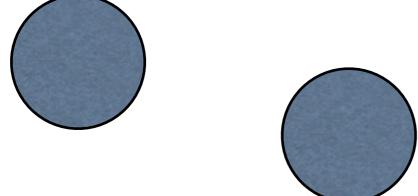
System Properties and Project 3 tips

- The PAXOS algorithm described in class focused on one paxos consensus.
- How does this fit with project 3.



- Node proposes a value [or, makes request to a proposer]
- Paxos runs, consensus learned
- client gets a response when its request is complete.

Q: what if 2 requests occur at the same time?

- PAXOS will form consensus on I of them.
- Once consensus learned, other proposer can propose again in the next paxos round.

Q: what if the ordering from paxos is invalid?

- All file servers can see the log from paxos
- Since they agree, they will agree that invalid operation is invalid
 - and therefore, can ignore it.

Q: what is the value in paxos?

- Context: The proposer / file server is committing a transaction.
- That transaction can be uniquely identified by proposer + transaction id.
- paxos orders transactions.

System Properties

	DHH	Dynamo	Memcached	Spanner
Consistency when updating I record				
Consistency when updating multiple records				
Lookup Efficiency				

System Properties

- Data center failure
- Network Partition
- When are reads 'local'?
- When are writes 'local'?