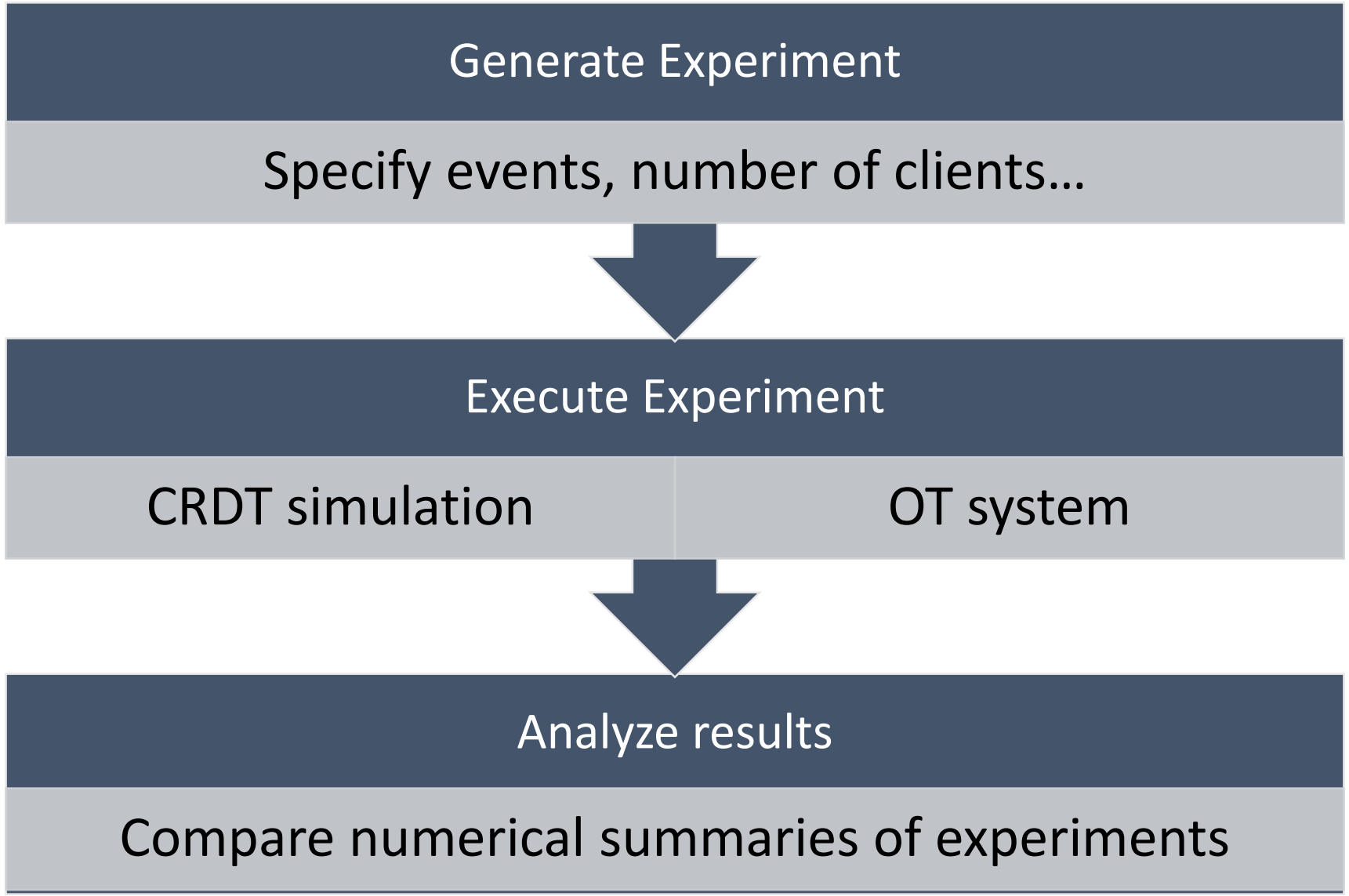
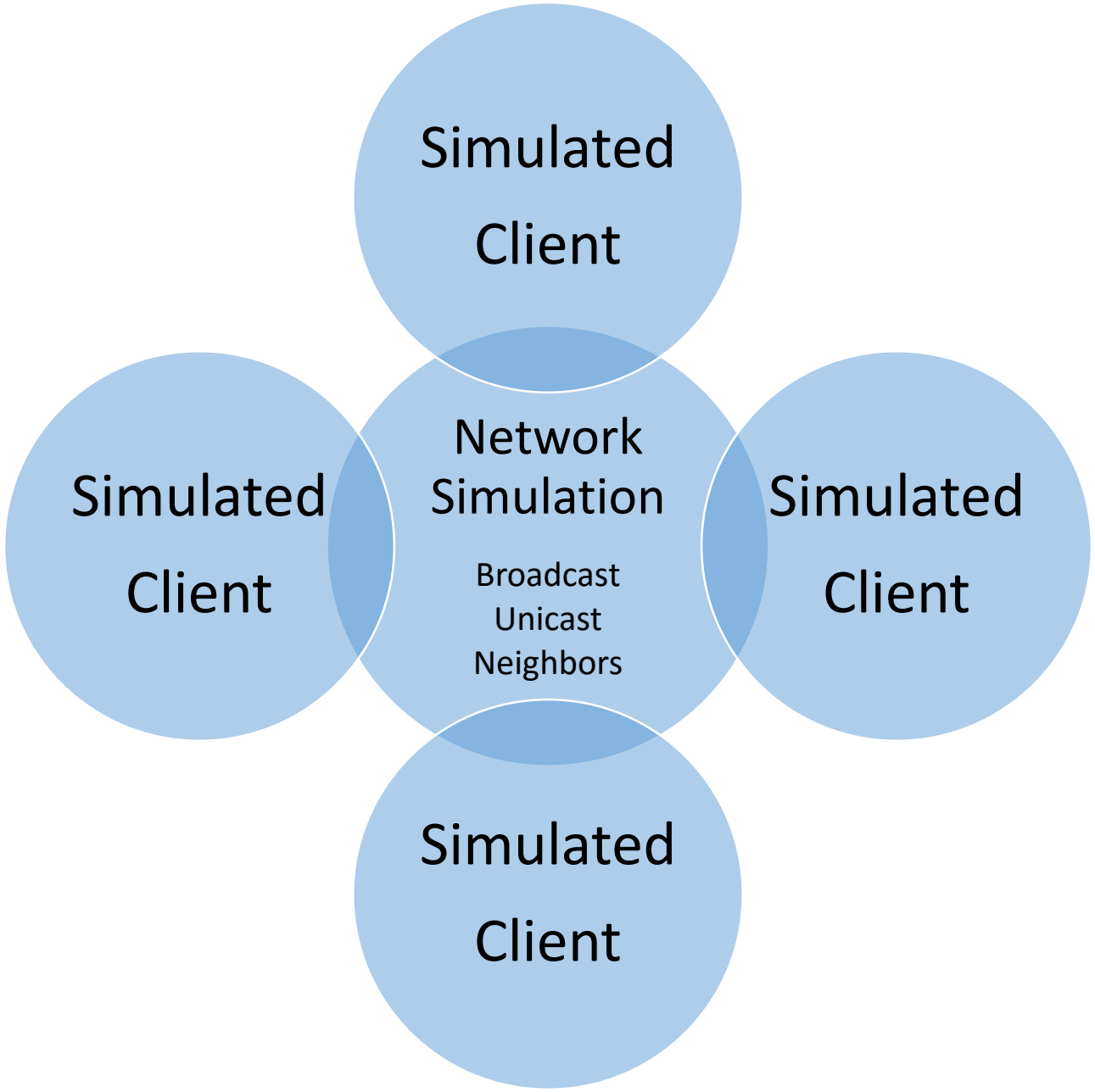
Conflict Free Document Editing with Different Technologies

Conflict Free Replicated Datatypes
(CRDT)

Operational Transforms
(OT)

(In different contexts…)


Generate Experiment
Specify events, number of clients…
Execute Experiment
CRDT simulation
OT system
Analyze results
Compare numerical summaries of experiments


Simulated
Client
Simulated
Client
Network
Simulation
Broadcast
Unicast
Neighbors
Simulated
Client
Simulated
Client

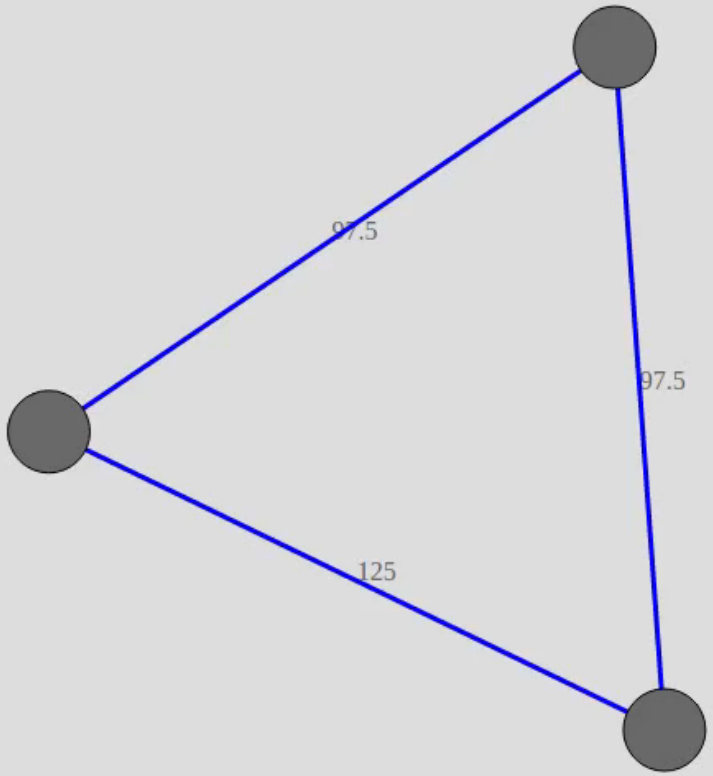
Difficulties

Implement clean (P2P) network simulation

Run into limitations on chrome/firefox

localhost:9000

localhost:9000

Play 0.8 Speed = 1.0 => ~10 events per second

0 packets