

ROCQTROCQ

A real-time group tracking app

John Knox

Session Setup

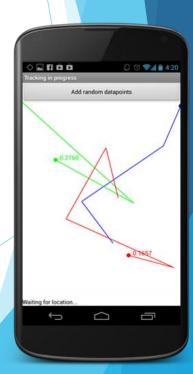
Two Methods:

- Bluetooth
- Coordinating server



Data Structure and Network Protocols

- Data Structure
 - List of (location, time) pairs (indexed by distance moved) for each device
 - Stored as ordered tree of gapless segments of data
- Client / Server
- Peer to Peer
- Data Requests



Next Steps

- Built with logging functionality
- Use recorded GPS traces to simulate real usage
- Test various protocol combinations with increasing levels of packet loss
- Analyse data from tests

