Plan
- Background on RON
- Fun with traceroute in breakout rooms
- Discussion

Logistics
* DP Prep report due 3/30
* Hands-on (net) due 3/24
* Holiday next W/T?
* Next week: more RON mid-semester
* Feedback (by email)
Ron: Background

What is an overlay?

1. Network in a network

Goal:
1. Route quickly around net failures...
2. Apps can determine policy
3. Expressive policy

Failures
- Link failure (physical link)
  - SW bug
  - Sharks eating cable
- Path failure (conf'd prob.)
What do you care about in choosing a route?

- # Hops?
- % loss
- Throughput
- Latency
- Political
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- A system that allows hosts/users to choose their routes

- Improve reliability, detect outages more quickly & handle

+ Tighter coupling of app needs w/ routing

Outages
- Link failure: hardware crashes, overloaded, physical link breakage
- Path failure: DDoS attack, routing config problems
Blocking Websites

APP: - DNS - UK
- Deep packet inspection via HTTP

Network: Network layer - Block IP addresses

Syria

China