Problem: Some adversaries can just block the whole network.

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Alice

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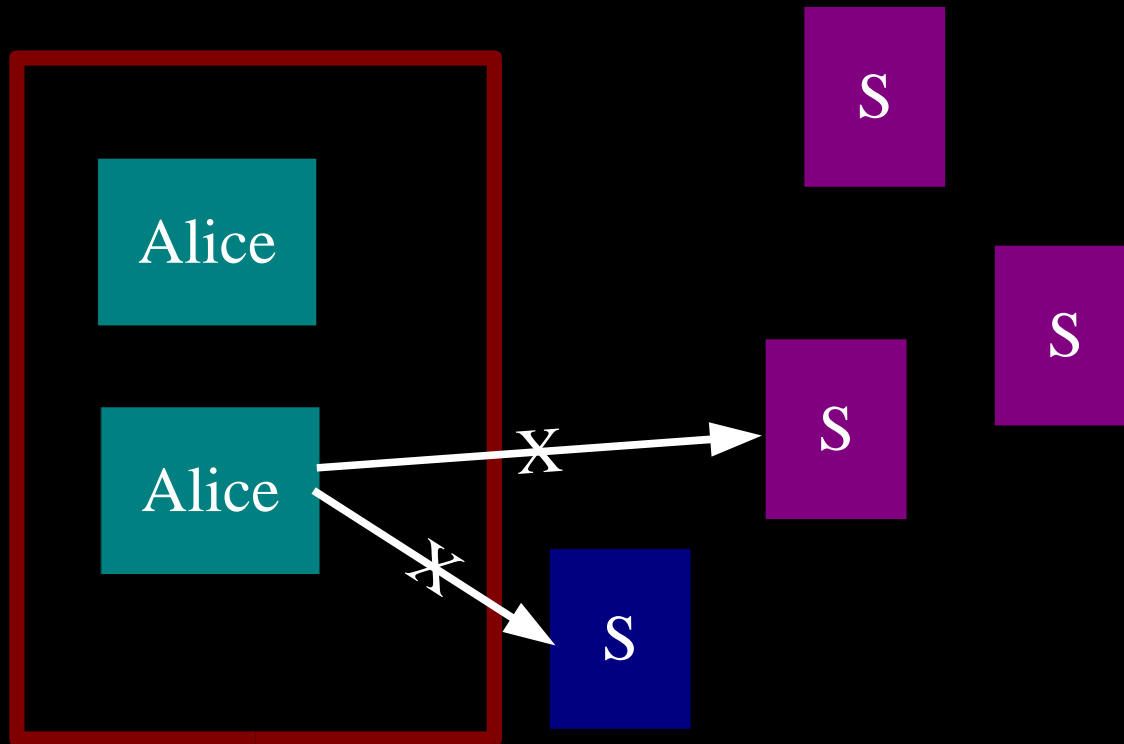
They don't, yet. But when they do...?

Building blocks

- Tor separates the role of "willing to relay" from the role of "willing to exit".

- Established user base of 100k+ Tor users.

- Tor's design is modular: "Given a set of nodes, we'll build a circuit through it." E.g., Blossom is a "Perspective Access Network" based on Tor.

- Tor does automated updates, failover, etc.

We can make a second Tor network that doesn't publish all its nodes.
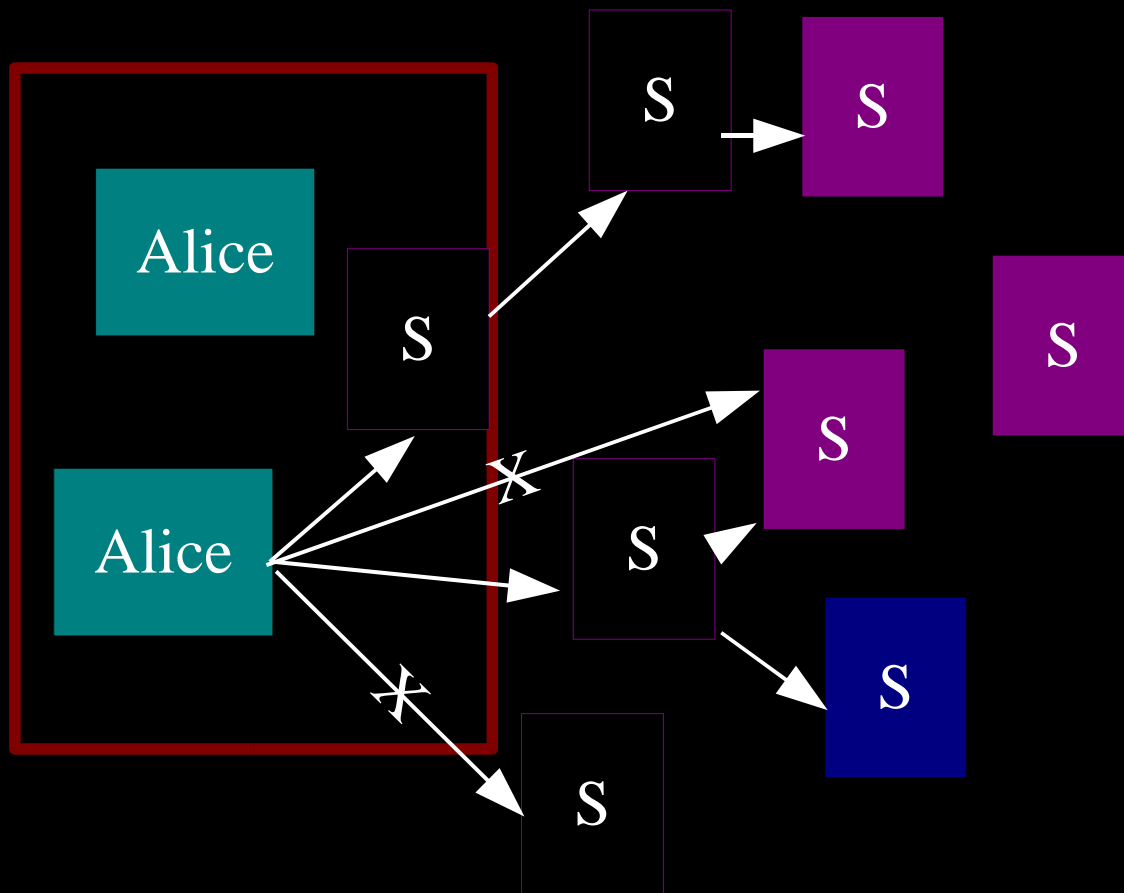
How to bootstrap, and how to maintain reachability?

- What if our new directory server gets blocked?
  - Blocking usually isn't perfect.
  - Social networks to bootstrap.
- How to distribute relay addresses to the right people without letting the wrong people enumerate them?
  - Captchas, accounts that earn reputation, ...

URLs

- Tor: **http://tor.eff.org/**

- Anonymity bibliography:
  http://freehaven.net/anonbib/