# Addressing within your network

- Allocate you addressing contiguously
- Allocate customer addresses per POP
- Scale it to your network size.

I need a diagram

223.10.0.0/21

| 223.10.0.1 | | 223.10.6.255 | /24 |

Customer assignments — Infrastructure Loopbacks
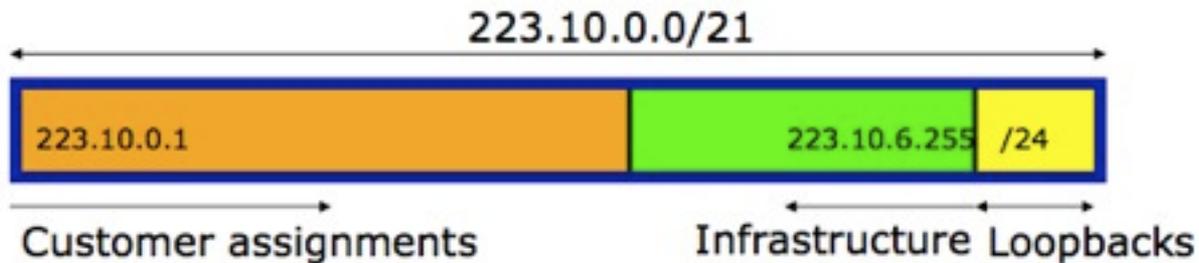
- Group all infrastructure at the top if the range (or bottom).
- Group loopbacks together.
- Group linknets together.
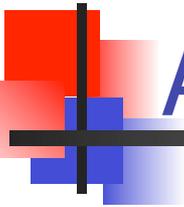
Ah okay then

- But why am I telling you this?
- ACL's and Configuration!
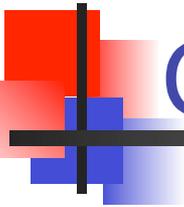
Contrived Example

- 10.23.0.0/16 Total allocation
  - Infrastructure assignments
    - 10.23.255.192/27 - Loopbacks
    - 10.23.255.0/26 - Linknets
  - Customer allocations by site
    - 10.23.0.0/24 - London - Linknets
    - 10.23.2.0/23 - London - Customer assignments
    - 10.23.5.0/24 - Frankfurt - Linknets
    - 10.23.6.0/23 - Frankfurt - Customer assignments
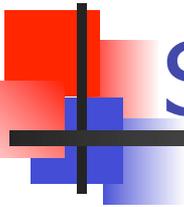
So then, this!

- 10.23.0.0/16 Can be advertised to all peers
    - 10.23.0.0/22 - London peers and IX's
    - 10.23.5.0/22 - Frankfurt peers and IX's
    - 10.23.255.0/24 - Can be filtered on the edge with just one rule!
  - One rule for outbound and inbound BGP filters.
  - One rule for packet filtering.