

Bitwise Operations

And (&):

0 and 0 = 0

1 and 0 = 0

0 and 1 = 0

1 and 1 = 1

Or (|):

0 or 0 = 0

0 or 1 = 1

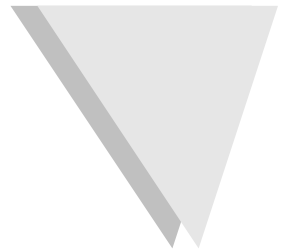
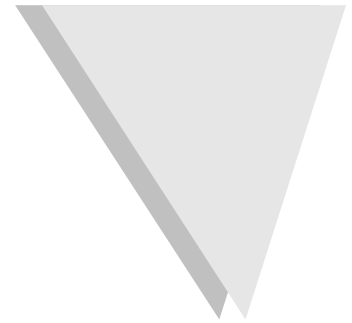
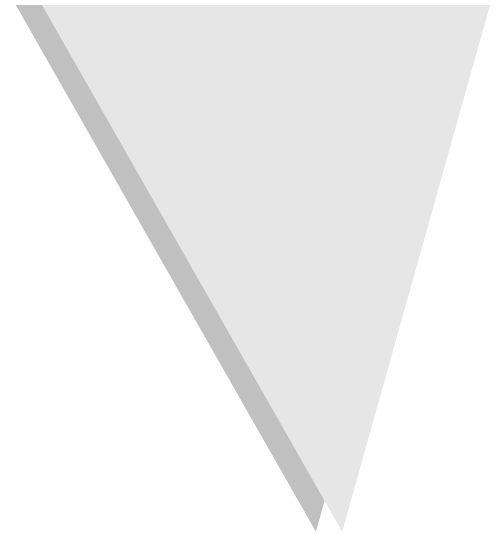
1 or 0 = 1

1 or 1 = 1

Not (!):

not 0 = 1

not 1 = 0



Routing

Same network number and netmask = *local* (i.e., on the same wire).

Not local requires entry in routing table or a default (last resort) route.

Why we don't use *real* addresses on private networks.

Addresses Reserved for Private Nets (RFC 1918):

10.0.0.0 – 10.255.255.255 (255.0.0.0)

172.16.0.0 – 172.31.255.255 (255.240.0.0)

192.168.0.0 – 192.168.255.255 (255.255.0.0)

IP aliasing — no default local network?

