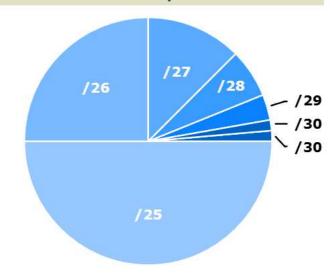
		Subnets	
CIDR	Subnet Mask	Addresses	Wildcard
/32	255.255.255.255	1	0.0.0.0
/31	255.255.255.254	2	0.0.0.1
/30	255.255.255.252	4	0.0.0.3
/29	255.255.255.248	8	0.0.0.7
/28	255.255.255.240	16	0.0.0.15
/27	255.255.255.224	32	0.0.0.31
/26	255.255.255.192	64	0.0.0.63
/25	255.255.255.128	128	0.0.0.127
/24	255.255.255.0	256	0.0.0.255
/23	255.255.254.0	512	0.0.1.255
/22	255.255.252.0	1,024	0.0.3.255
/21	255.255.248.0	2,048	0.0.7.255
/20	255.255.240.0	4,096	0.0.15.255
/19	255.255.224.0	8,192	0.0.31.255
/18	255.255.192.0	16,384	0.0.63.255
/17	255.255.128.0	32,768	0.0.127.255
/16	255.255.0.0	65,536	0.0.255.255
/15	255.254.0.0	131,072	0.1.255.255
/14	255.252.0.0	262,144	0.3.255.255
/13	255.248.0.0	524,288	0.7.255.255
/12	255.240.0.0	1,048,576	0.15.255.255
/11	255.224.0.0	2,097,152	0.31.255.255
/10	255.192.0.0	4,194,304	0.63.255.255
/9	255.128.0.0	8,388,608	0.127.255.255
/8	255.0.0.0	16,777,216	0.255.255.255
/7	254.0.0.0	33,554,432	1.255.255.255
/6	252.0.0.0	67,108,864	3.255.255.255
/5	248.0.0.0	134,217,728	7.255.255.255
/4	240.0.0.0	268,435,456	15.255.255.255
/3	224.0.0.0	536,870,912	31.255.255.255
/2	192.0.0.0	1,073,741,824	63.255.255.255
/1	128.0.0.0	2,147,483,648	127.255.255.255
/0	0.0.0.0	4,294,967,296	255.255.255.255

Decimal to Binary								
Subnet Mask		Wildcard						
255	1111	1111	0	0000	0000			
254	1111	1110	1	0000	0001			
252	1111	1100	3	0000	0011			
248	1111	1000	7	0000	0111			
240	1111	0000	15	0000	1111			
224	1110	0000	31	0001	1111			
192	1100	0000	63	0011	1111			
128	1000	0000	127	0111	1111			
0	0000	0000	255	1111	1111			
Subnet Preparties								

Subnet Proportion



Classful Ranges A 0.0.0.0 - 127.255.255.255

B 128.0.0.0 - 191.255.255.255

c 192.0.0.0 - 223.255.255.255

D 224.0.0.0 - 239.255.255.255

E 240.0.0.0 - 255.255.255.255

Reserved Ranges

RFC 1918 10.0.0.0 - 10.255.255.255

Localhost 127.0.0.0 - 127.255.255.255

RFC 1918 172.16.0.0 - 172.31.255.255

RFC 1918 192.168.0.0 - 192.168.255.255

Terminology

CIDR

Classless interdomain routing was developed to provide more granularity than legacy classful addressing; CIDR notation is expressed as /XX

VLSM

Variable-length subnet masks are an arbitrary length between 0 and 32 bits; CIDR relies on VLSMs to define routes

by Jeremy Stretch v2.0