

## Five Different Classes of IPv4 Addresses

Class	First Octet decimal (range)	First Octet binary (range)	IP range	Subnet Mask	Hosts per Network ID	# of networks
Class A	0 — 127	<b>0</b> XXXXXXXX	0.0.0.0-127.255.255.255	255.0.0.0	$2^{24} - 2$	$2^7$
Class B	128 — 191	<b>10</b> XXXXXXXX	128.0.0.0-191.255.255.255	255.255.0.0	$2^{16} - 2$	$2^{14}$
Class C	192 — 223	<b>110</b> XXXXXX	192.0.0.0-223.255.255.255	255.255.255.0	$2^8 - 2$	$2^{21}$
Class D (Multicast)	224 — 239	<b>1110</b> XXXX	224.0.0.0-239.255.255.255			
Class E (Experimental)	240 — 255	<b>1111</b> XXXX	240.0.0.0-255.255.255.255			

