

IP address

Internet Protocol is a set of rules, that makes internet work.

IPv4

32 bits - N.N.N.N, every number is in range $(0 - 255)_{10}$ or $(00000000 - 11111111)_2$
Problem: there are more than 4.294.967.296 devices.

IPv6

128 bits - 32 decimal numbers or 128 binary numbers

XXXX : XXXX : XXXX : XXXX : XXXX : XXXX : XXXX : XXXX