IPv6 Header – RFC 2460 (IPv6 Spec)

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

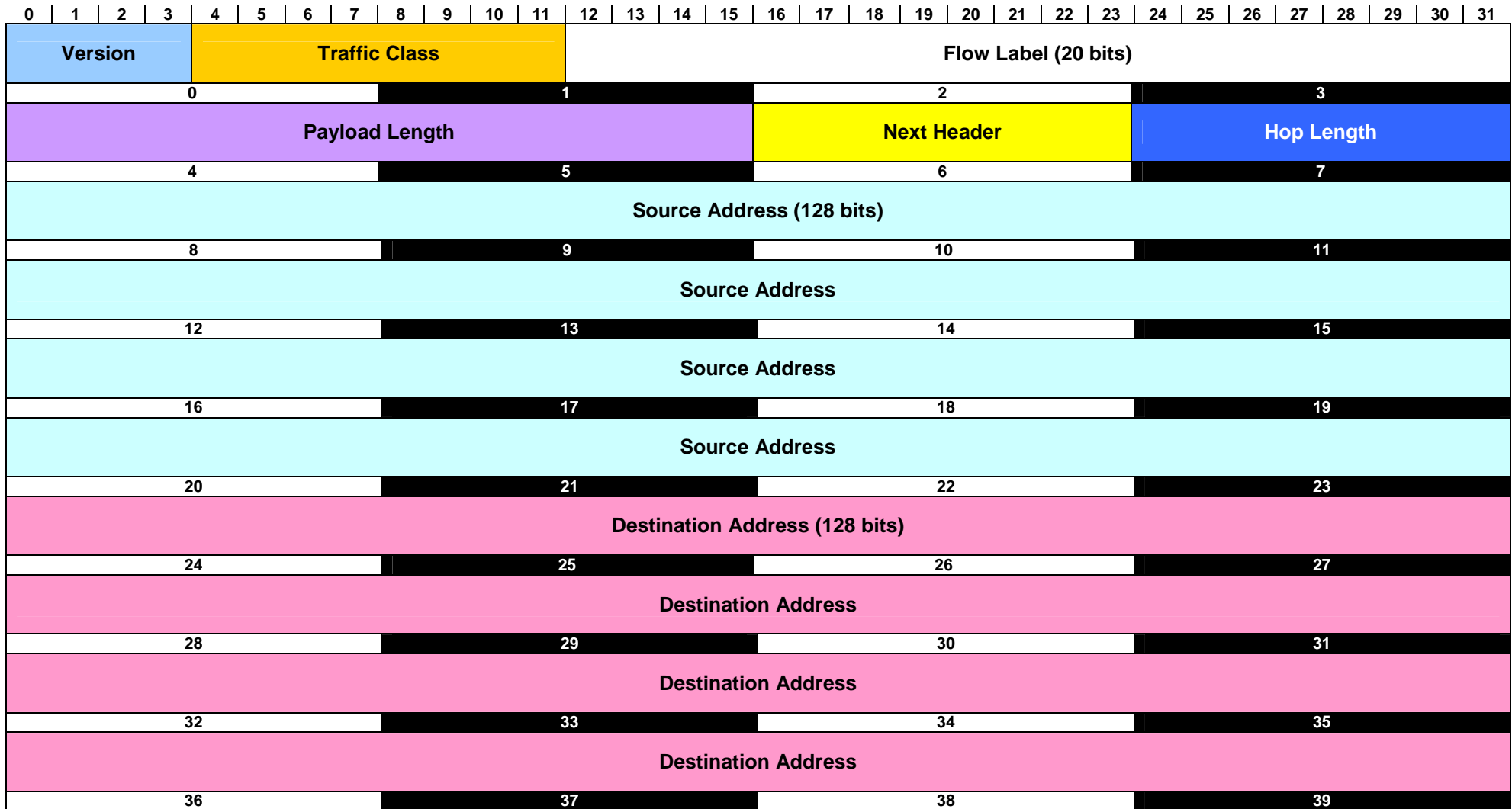| Version				Traffic Class								Flow Label (20 bits)																			
0								1								2								3							
Payload Length																Next Header								Hop Length							
4								5								6								7							
Source Address (128 bits)																															
8								9								10								11							
Source Address																															
12								13								14								15							
Source Address																															
16								17								18								19							
Source Address																															
20								21								22								23							
Destination Address (128 bits)																															
24								25								26								27							
Destination Address																															
28								29								30								31							
Destination Address																															
32								33								34								35							
Destination Address																															
36								37								38								39							

Note: the standard IPv6 is 40 bytes long as opposed to 20 bytes for a v4 header (without options) also the v6 header is a lot simpler than is older brother and thus easier to understand. There are however, IPv6 extension headers that fit between the IPv6 header and next header, these include routing headers and fragment headers.

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