Bytefield

Random Example

0	8	16	24	31

Test

Break…

…Break	Fill

Addr (12 Byte)

Optional*

IPv4

0	8	16	24	31

Version	TTL	TOS	Total Length
Identification		Flags	Fragment Offset
TTL	Protocol		Header Checksum
Source Address			
Destination Address			
Options			Padding
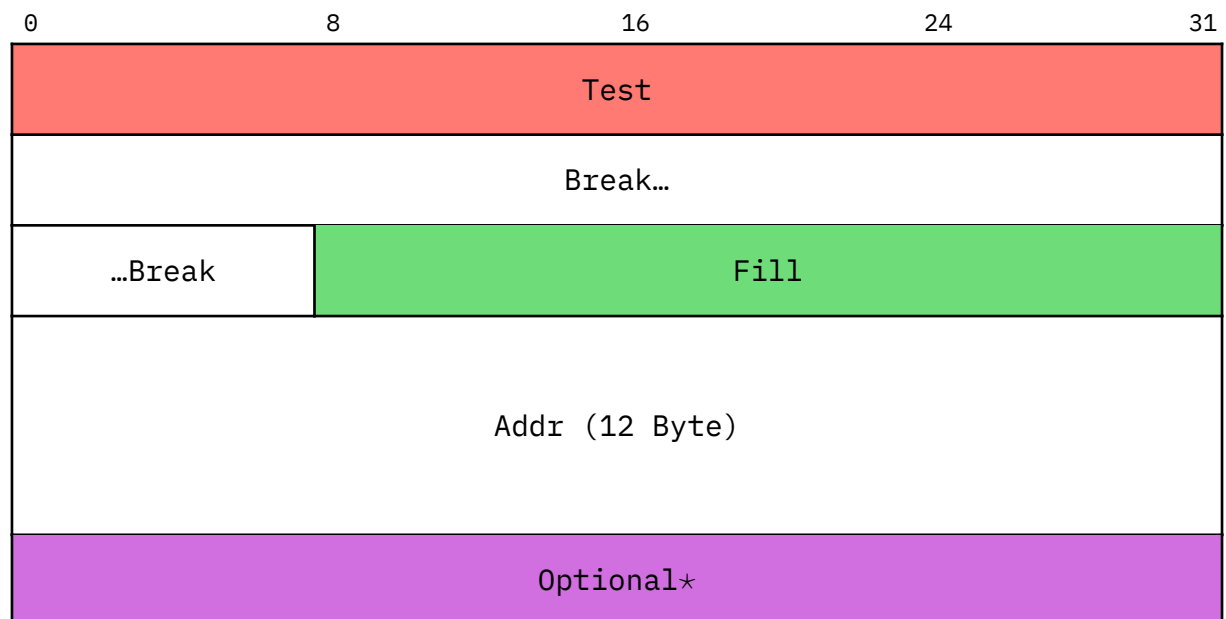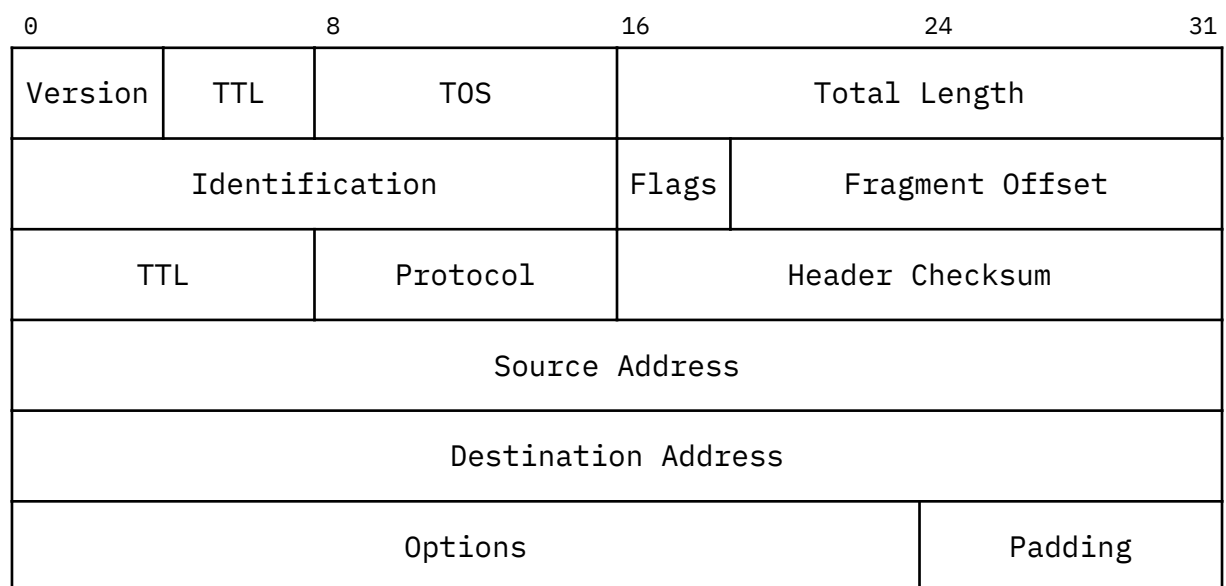
IPv6

0	8	16	24	31

Version	Traffic Class	Flowlabel		
Payload Length		Next Header		Hop Limit
Source Address				
Destination Address				

ICMP

0	8	16	24	31

Type	Code	Checksum	
Identifier		Sequence Number	
Optional Data ⋆			

ICMPv6

0	8	16	24	31

Type	Code	Checksum	
Internet Header + 64 bits of Original Data Datagram ⋆			

DNS

0	8	16	24	31

Identification	Flags
Number of Questions	Number of answer RRs
Number of authority RRs	Number of additional RRs

Questions

Answers (variable number of resource records)

Authority (variable number of resource records)

Additional information (variable number of resource records)

TCP

0	8	16	24	31

Source Port	Destinatino Port
Sequence Number	
Acknowledgment Number	

Data Offset	Reserved	Flags	Window

Checksum	Urgent Pointer
Options	Padding
…DATA…⋆	

0	8	16	24	31

Source Port	Destinatino Port
Sequence Number	
Acknowledgment Number	

Data Offset	Reserved	URG	ACK	PSH	RST	SYN	FIN	Window

Checksum	Urgent Pointer
Options	Padding
…DATA…⋆	

UDP

0	16	31

Source Port	Destinatino Port
Length	Checksum
…DATA…⋆	