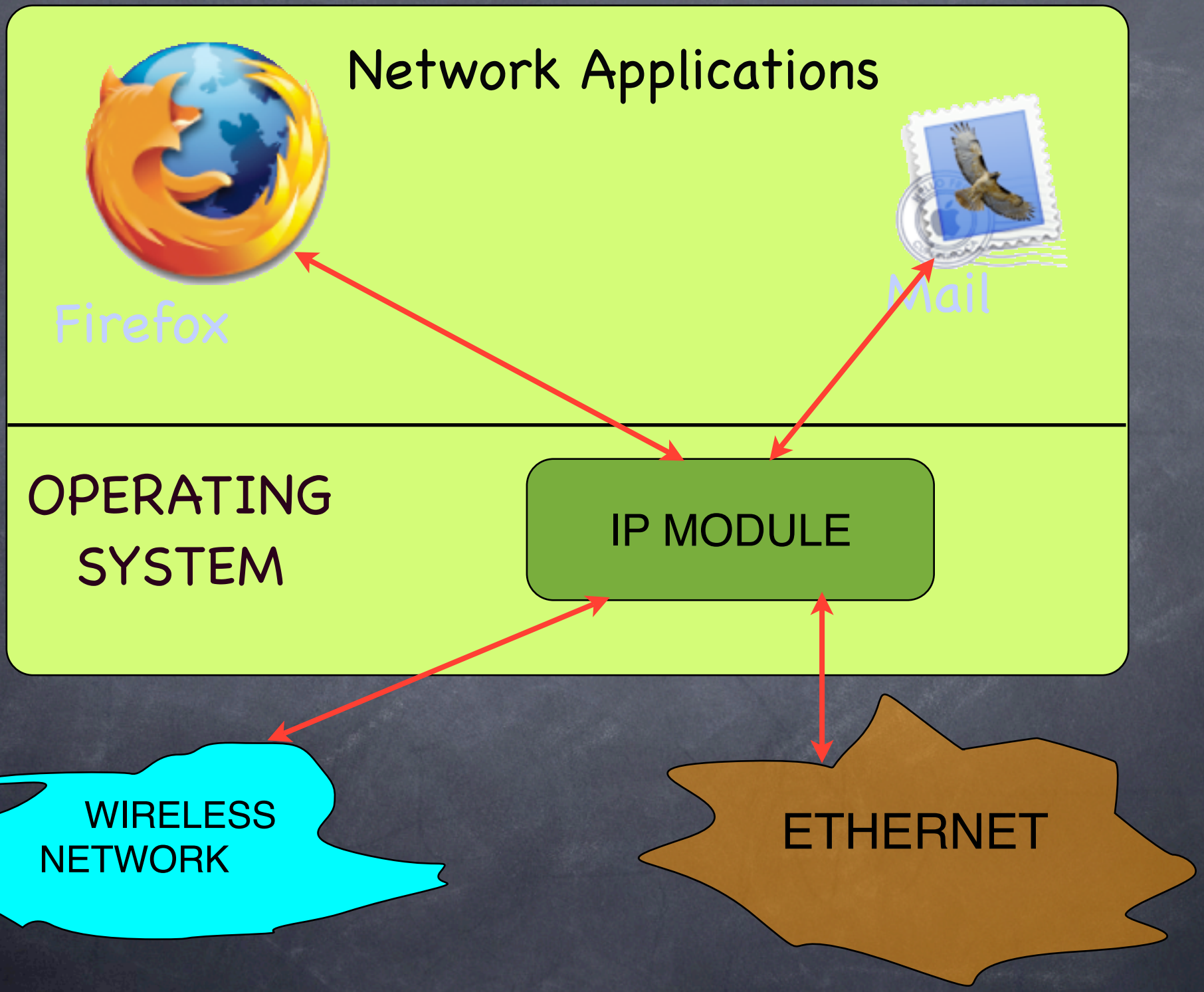
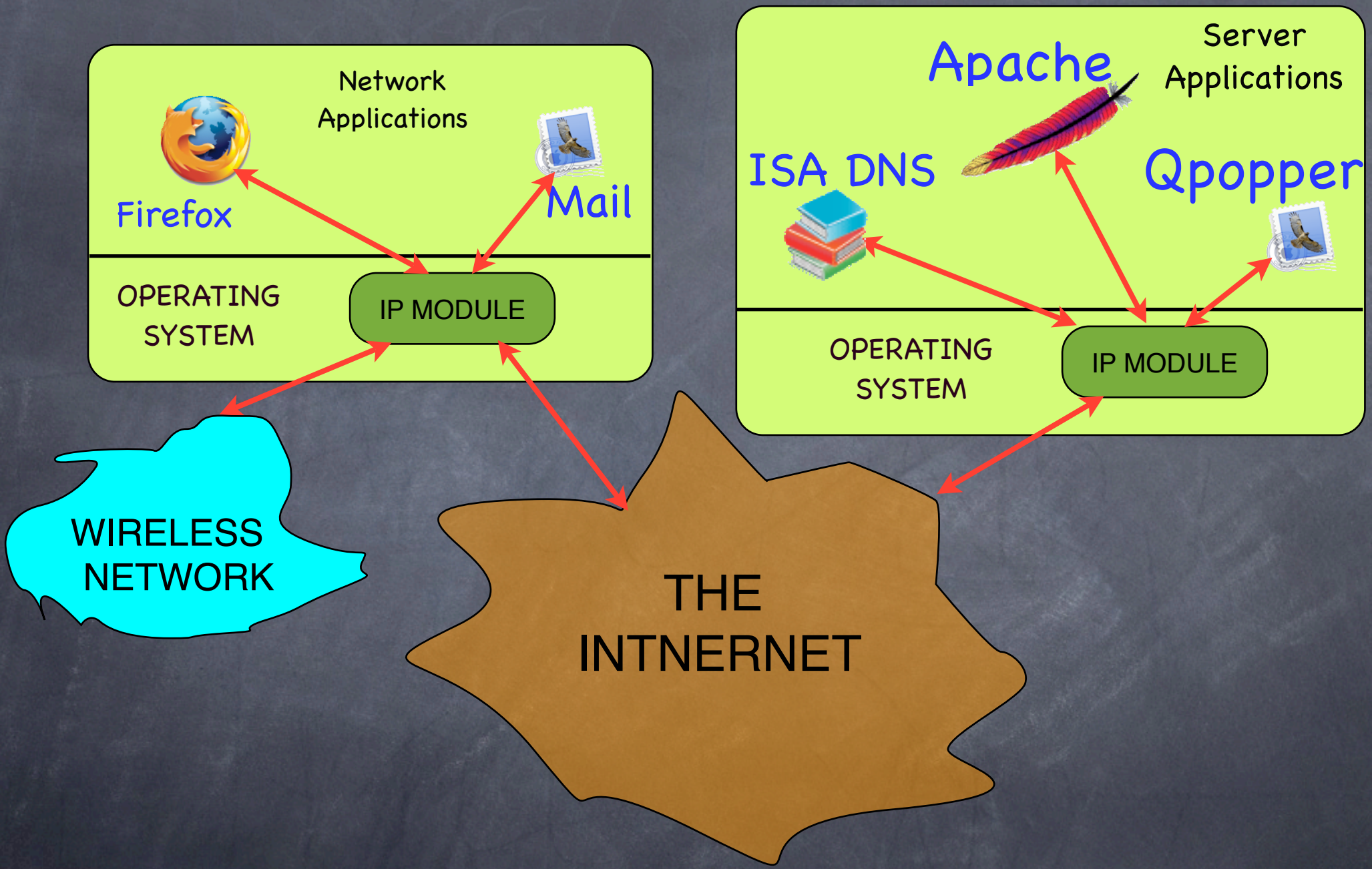
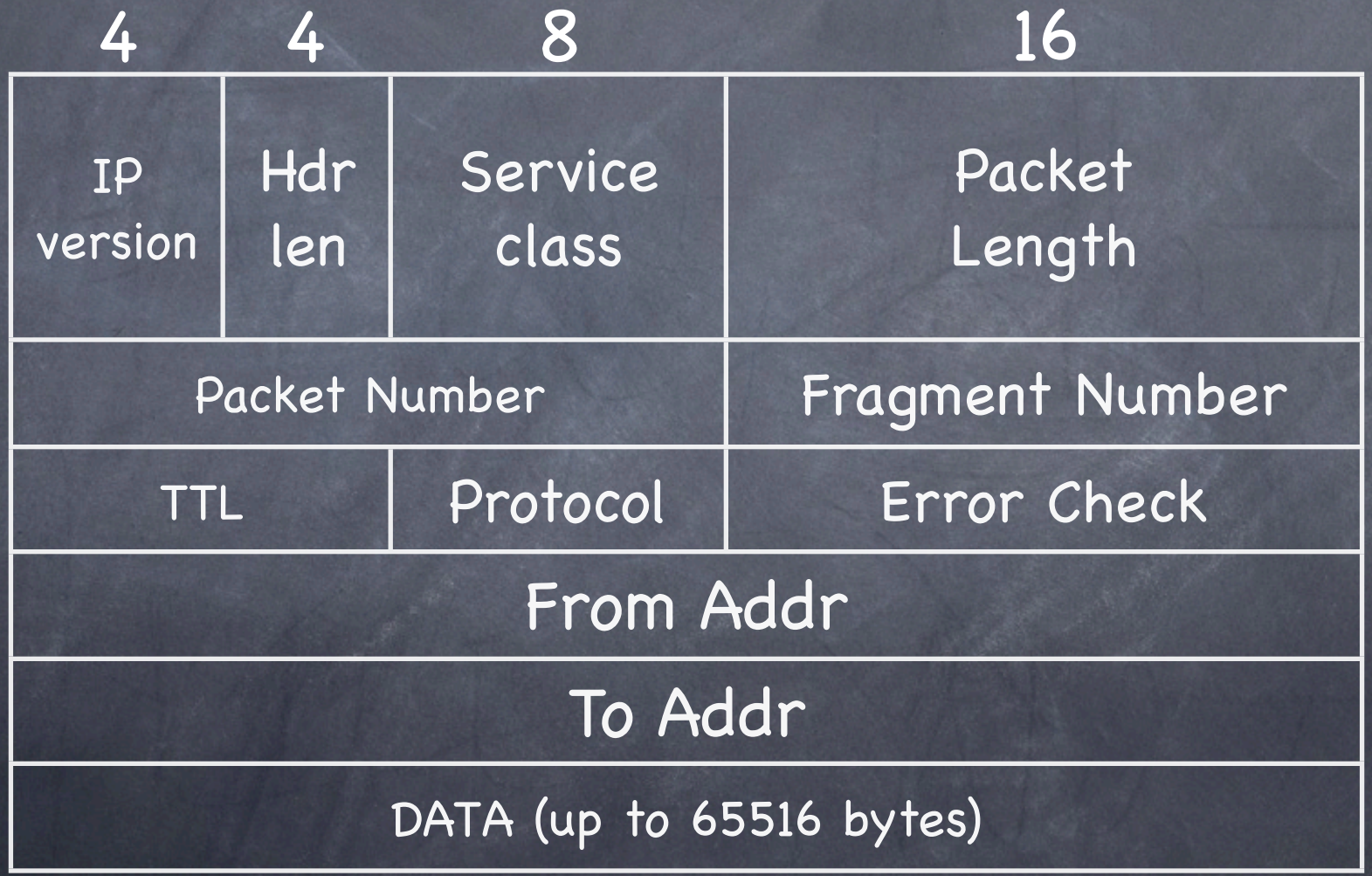
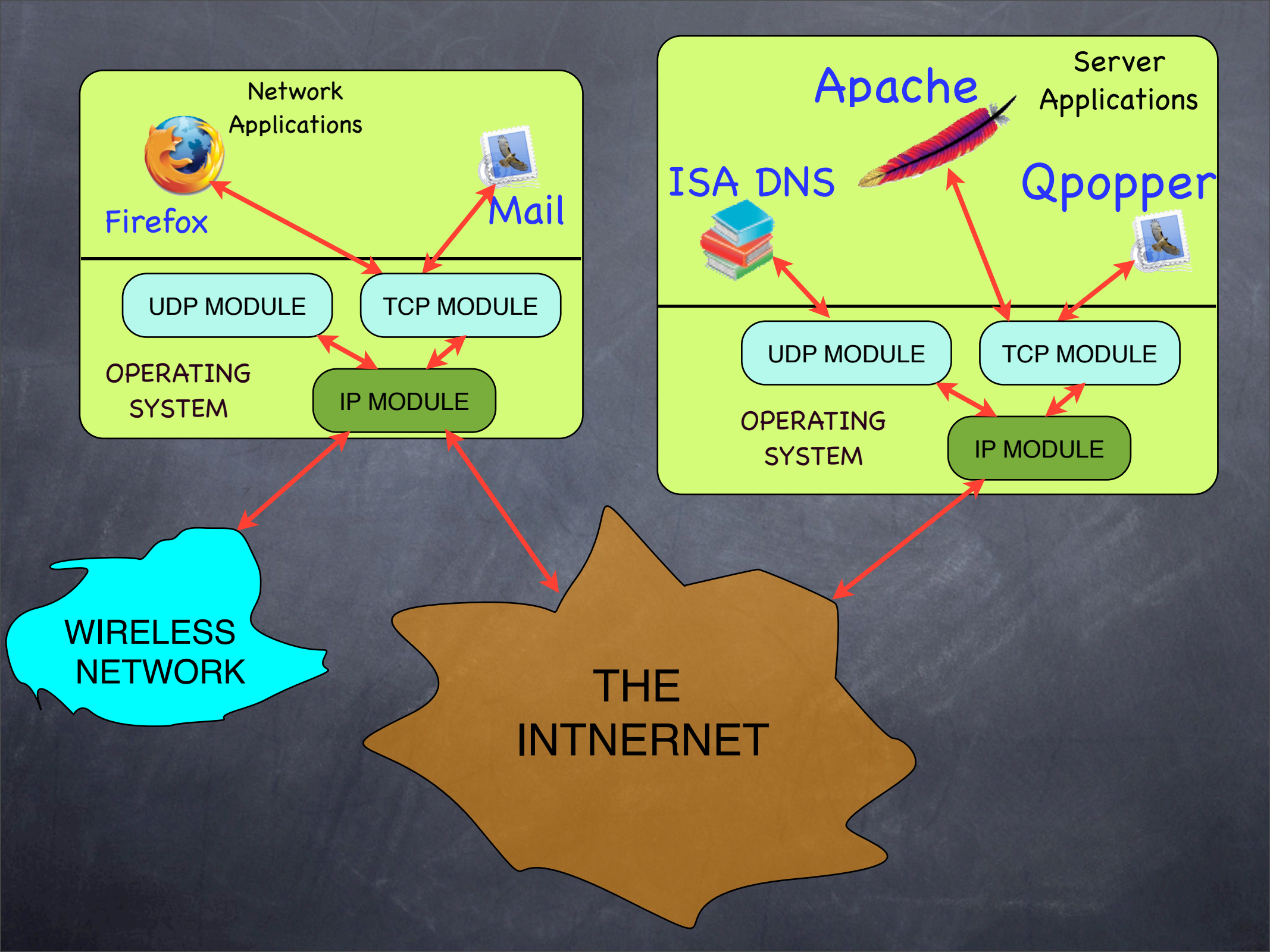

Network Applications
Firefox
Mail
OPERATING SYSTEM
IP MODULE
WIRELESS NETWORK
ETHERNET


Network
Applications
Firefox
Mail
OPERATING
SYSTEM
IP MODULE
Server
Applications
Apache
ISA DNS
Qpopper
OPERATING
SYSTEM
IP MODULE
WIRELESS
NETWORK
THE
INTNERNET

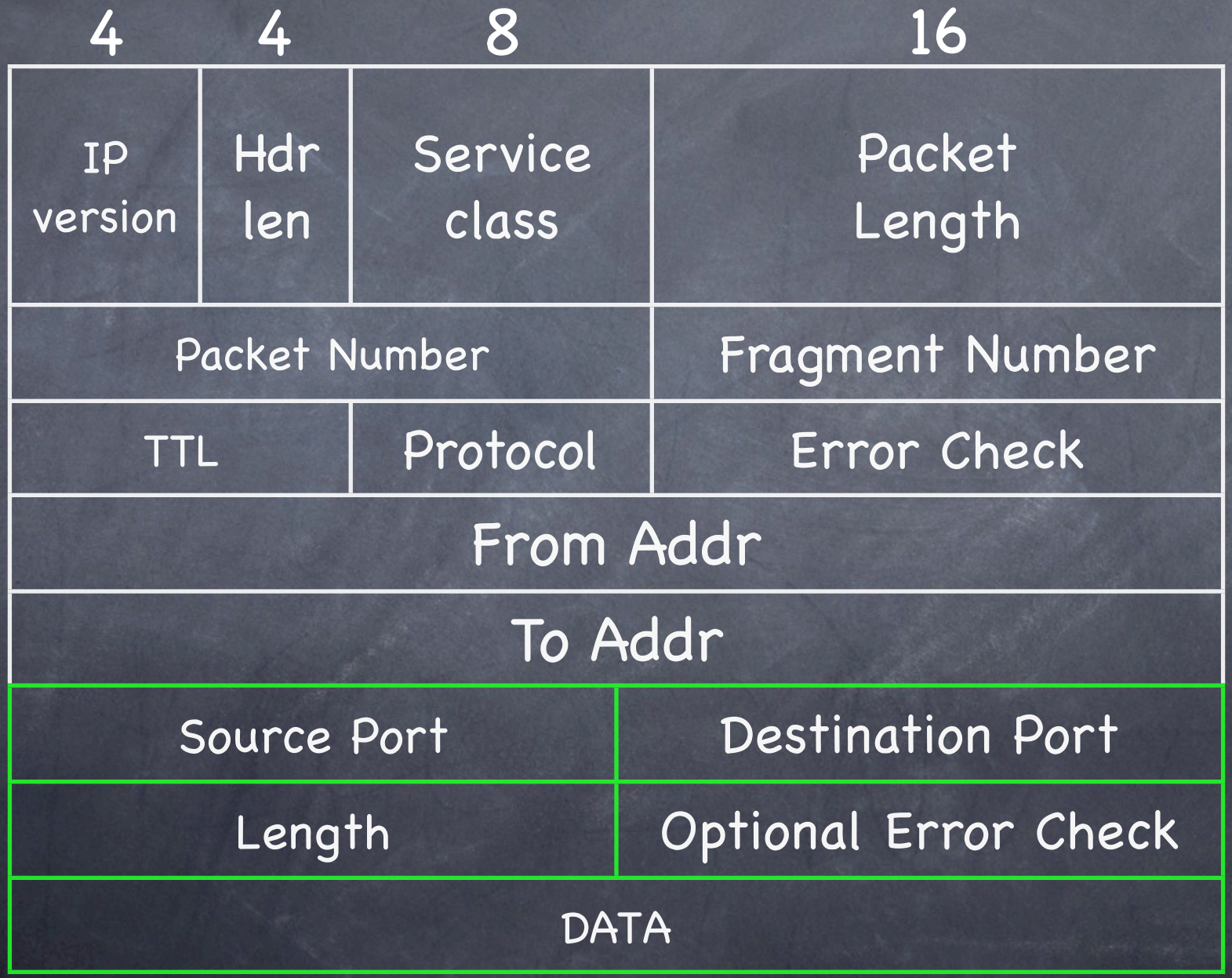
IP Datagram Format




Network Applications
Firefox
Mail
UDP MODULE
TCP MODULE
OPERATING SYSTEM
IP MODULE
Server Applications
Apache
ISA DNS
Qpopper
UDP MODULE
TCP MODULE
OPERATING SYSTEM
IP MODULE
WIRELESS NETWORK
THE INTNERNET

UDP Packet Format

UDP packet inside IP packet



Top 5 reasons IP packets get lost: . . .

5: Cosmic Rays

4: Electrical Interference

3: We both plugged our hair dryers into the same cirtuit as the router and the blew a fuse.

2: Back Hoes

http://www.scourstop.com/images/photos/full/backhoe.jpg

MAIL MYSTERY SOLVED

NEW YORK (1010 WINS) -- A letter carrier charged with torching first-class mail that he had stashed in a basement for years has been released on $25,000 bail, the U.S. attorney's office said Thursday.

Gregory Mewborn, assigned to the Vanderveer post office in the Flatbush section of Brooklyn for eight years, was arraigned before a federal magistrate on Wednesday night, said Robert Nardoza, a spokesman for the U.S. attorney.

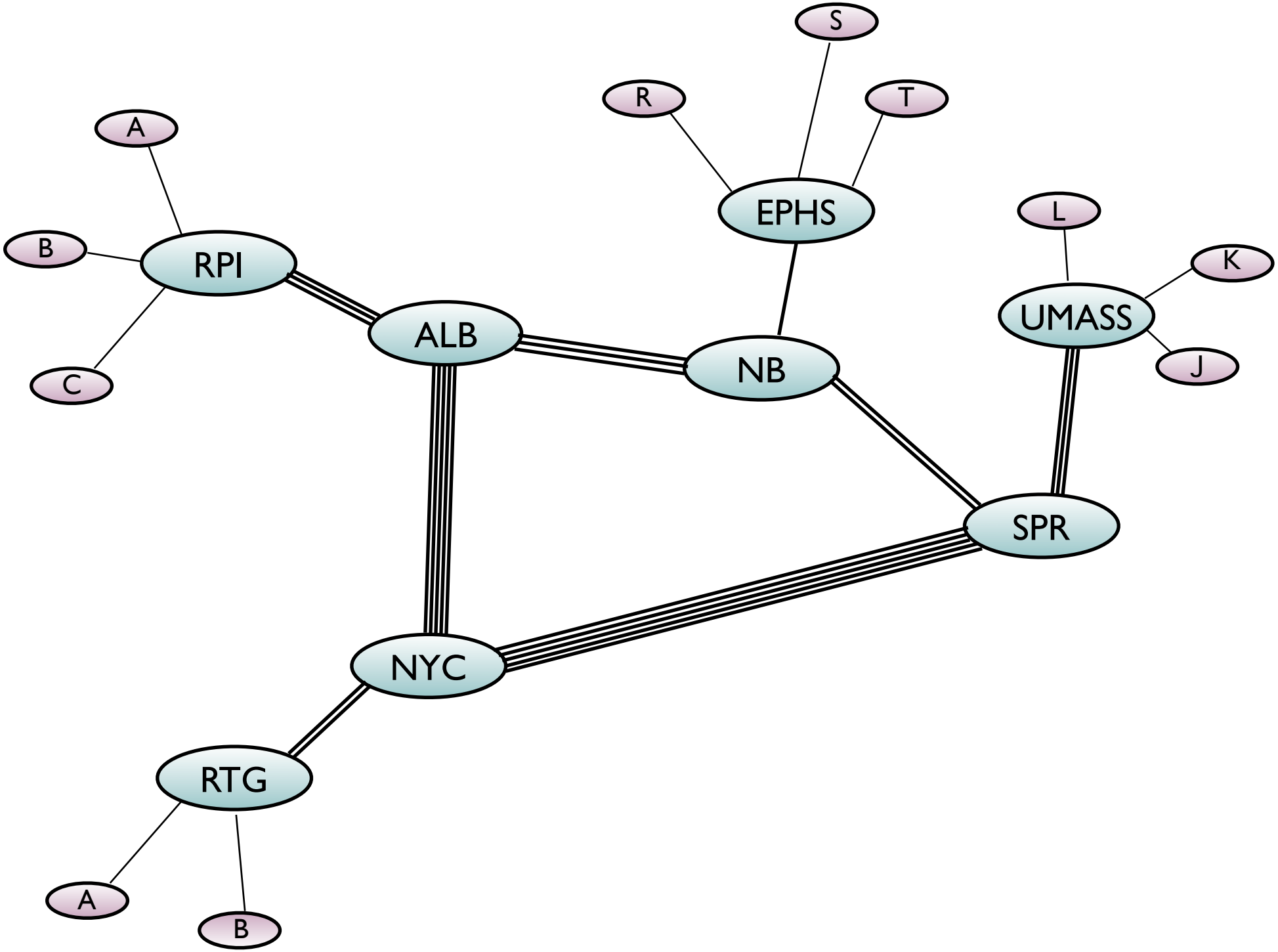
A federal complaint charged that Mewborn ``unlawfully secreted, destroyed, detained and delayed" letters and other mail entrusted to him.

Firefighters got a call about smoke at a boarded building in Flatbush on Wednesday morning. They found 10 bags of undelivered mail, some of it burned, and a lighter fluid container near the basement furnace. The mail dated as far back as 2002.

http://www.1010wins.com/pages/32068.php?contentType=4&contentId=136945

http://directmag.com/news/marketing_chicago_letter_carrier/

http://www.cbc.ca/canada/manitoba/story/2006/05/16/mb-mail-20060516.html


S
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NYC
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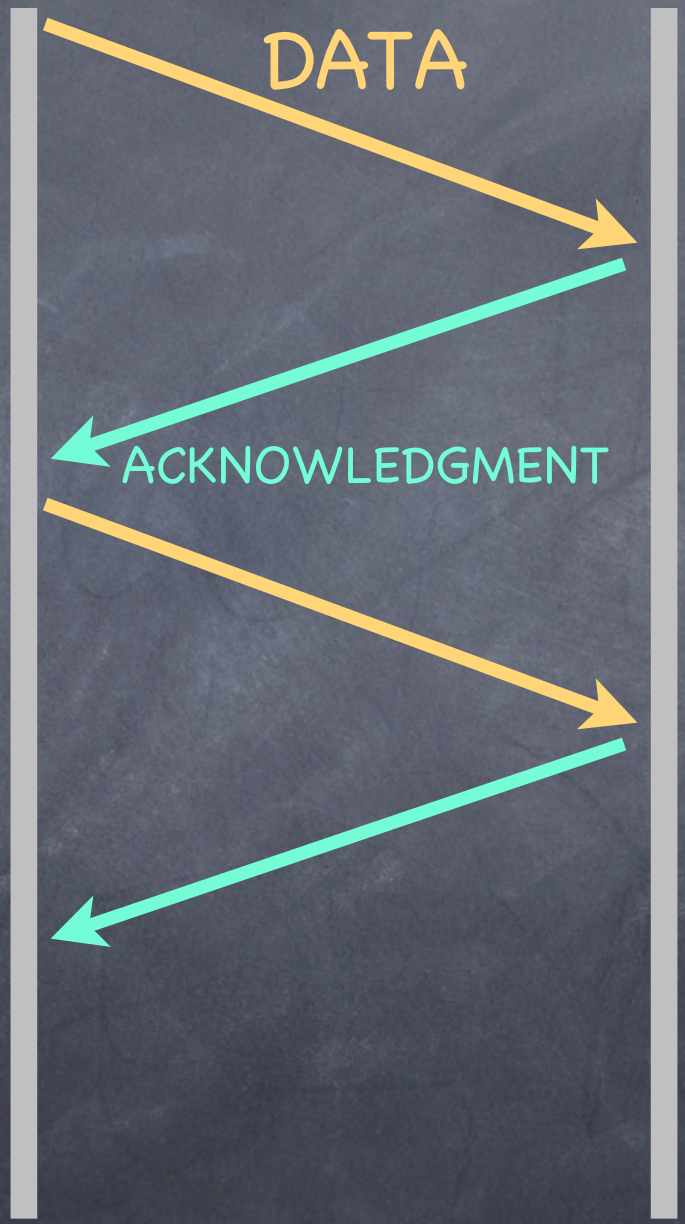
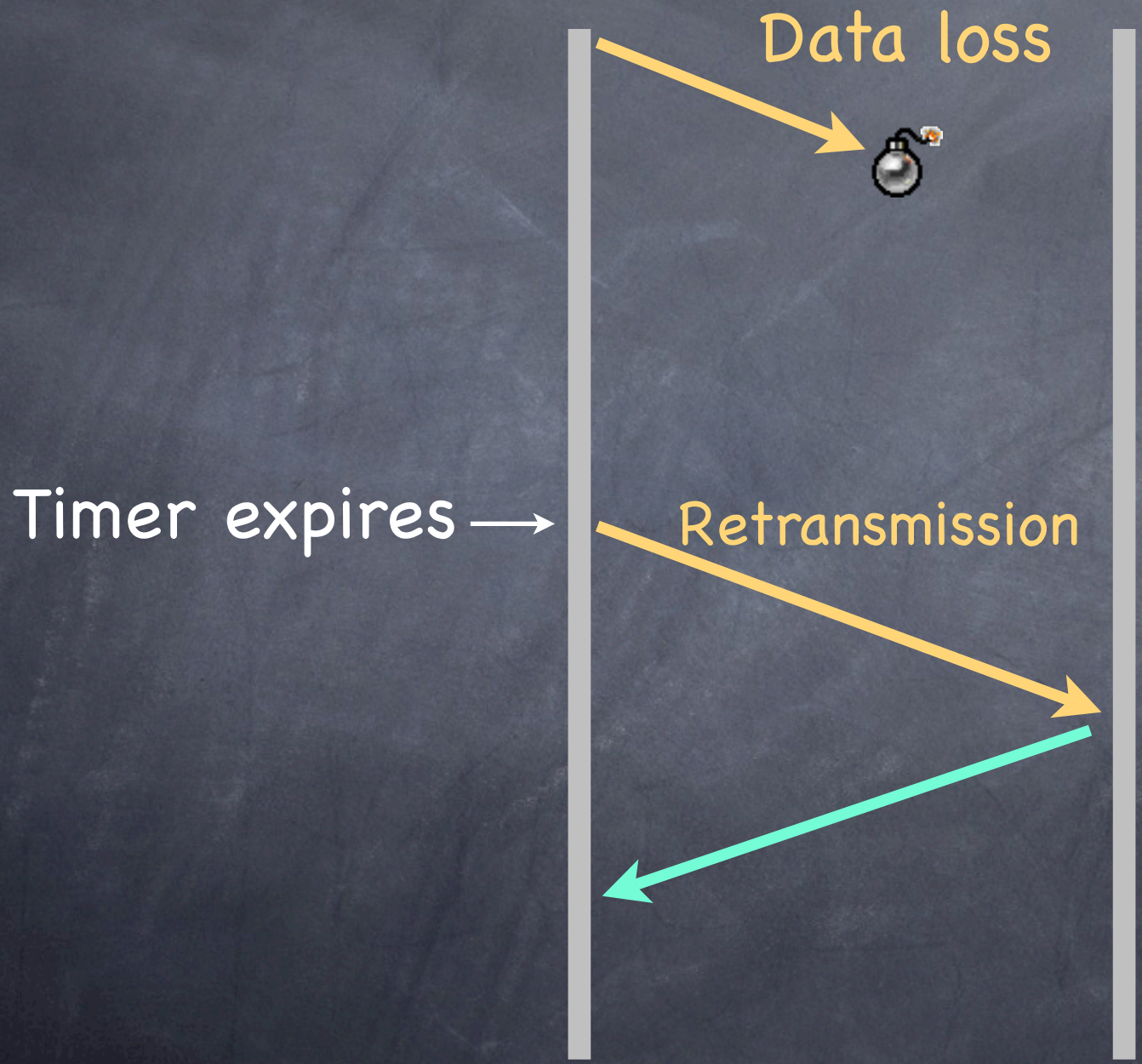
B

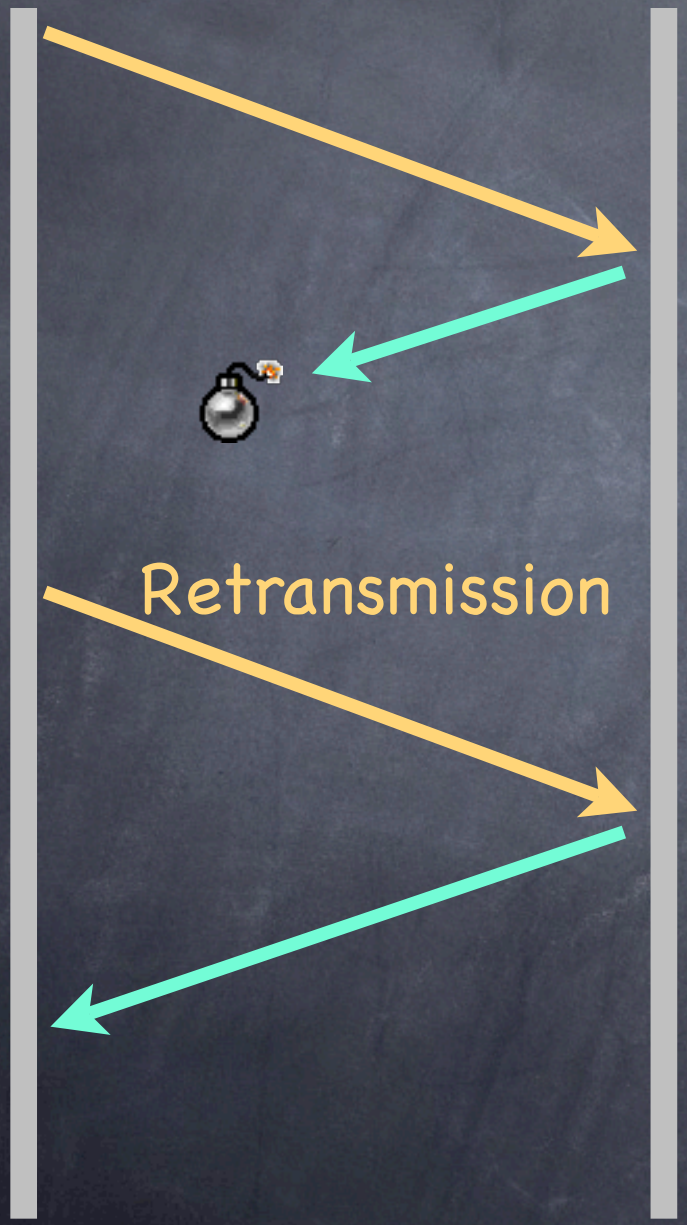
NORMAL TCP DATA TRANSMISSION



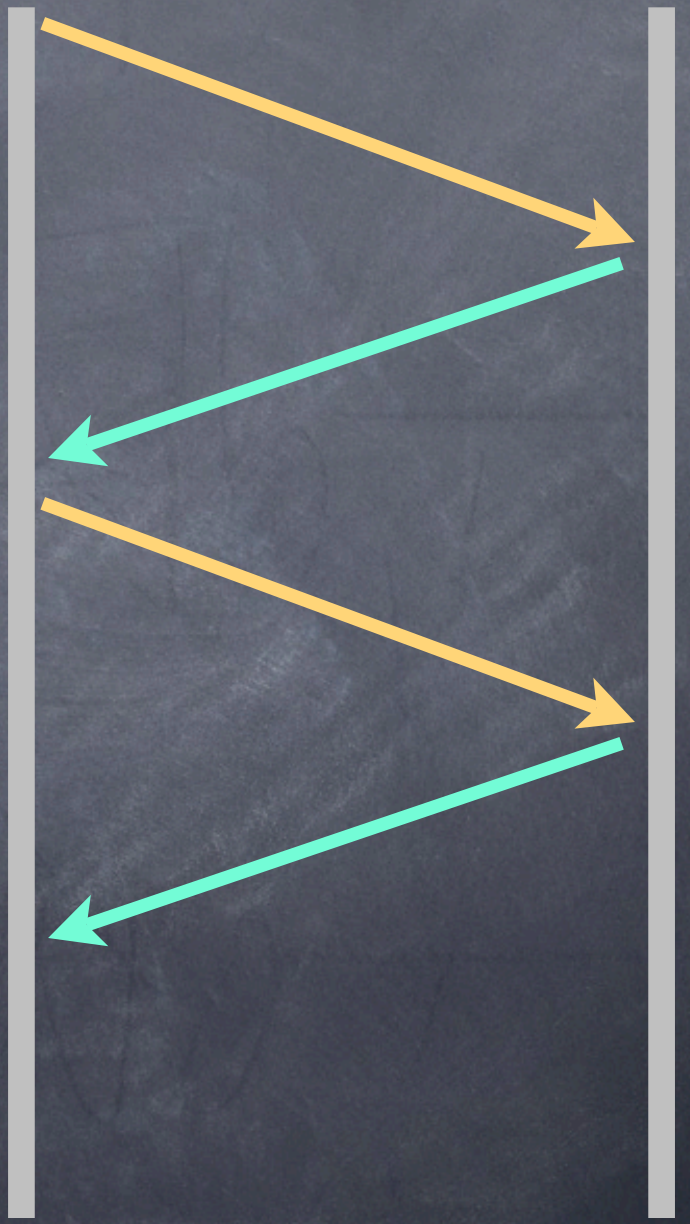
DATA LOSS



ACKNOWLEDGMENT LOSS + PACKET DUPLICATION



VS.

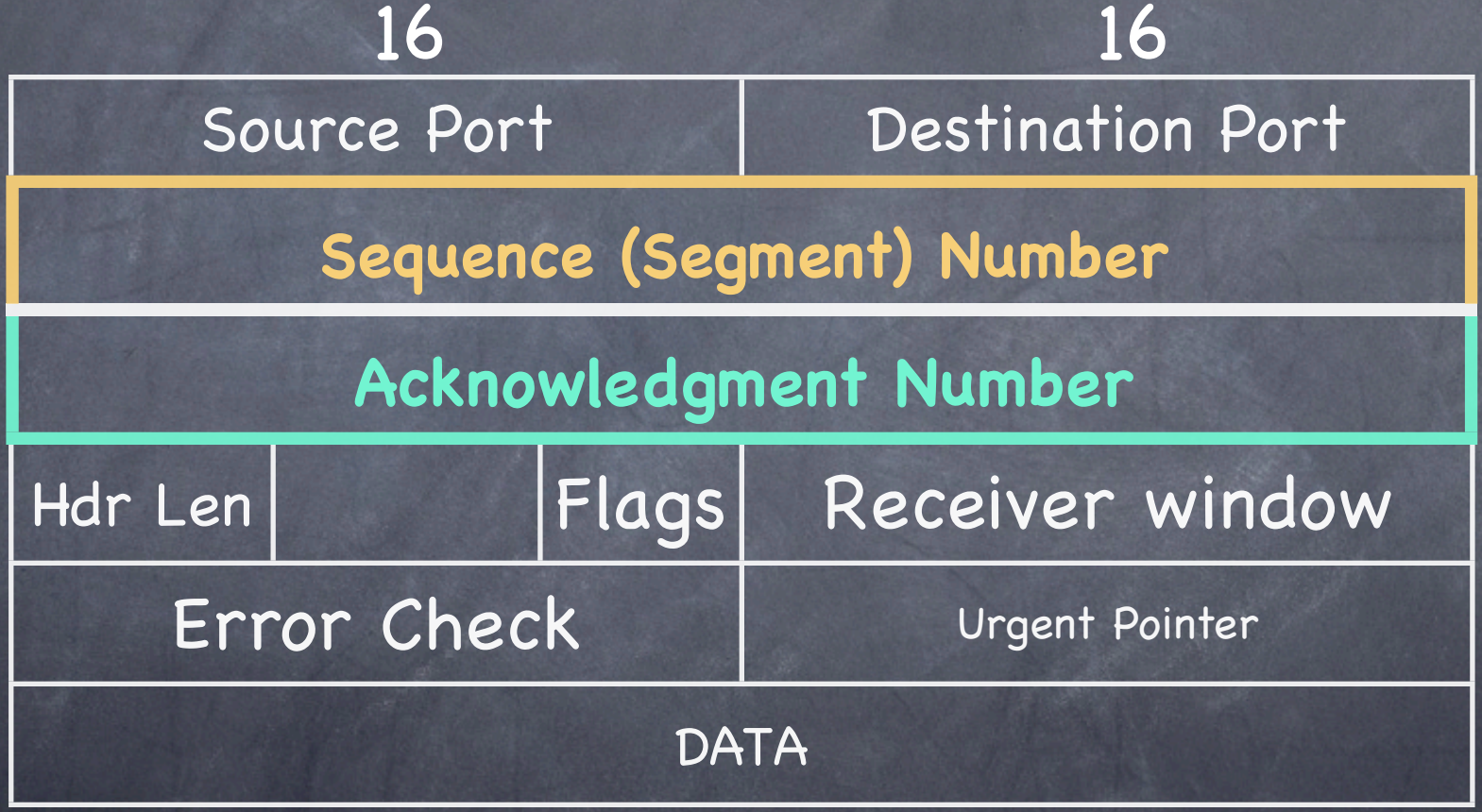


Sequence and Acknowledgment Numbers

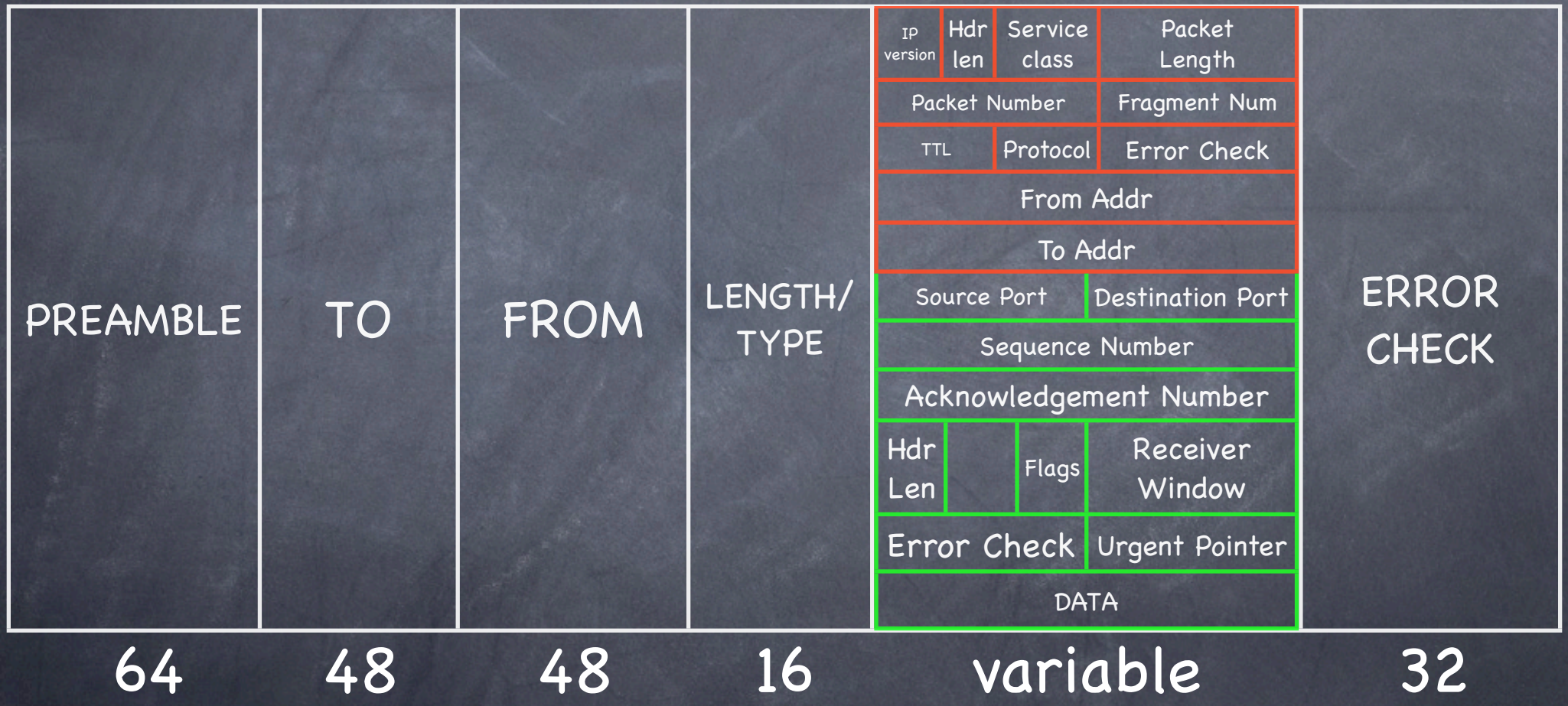
Loss Case

No Loss Case

TCP Segment Format



TCP packet inside IP packet

4	4	8	16
IP version	Hdr len	Service class	Packet Length
Packet Number			Fragment Number
TTL		Protocol	Error Check
From Addr			
To Addr			
Source Port			Destination Port
Sequence Number			
Acknowledgement Number			
Hdr Len		Flags	Receiver Window
Error Check			Urgent Pointer
DATA			

...inside Ethernet packet!