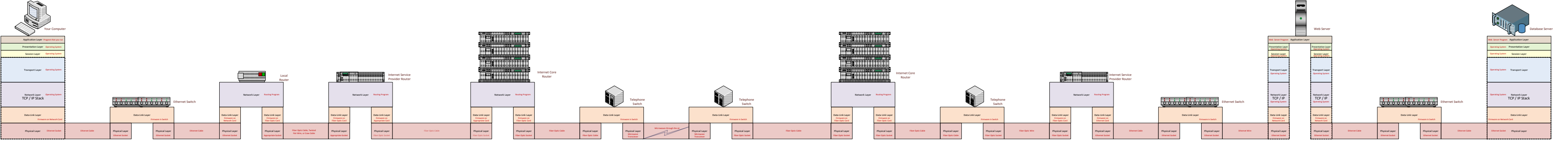
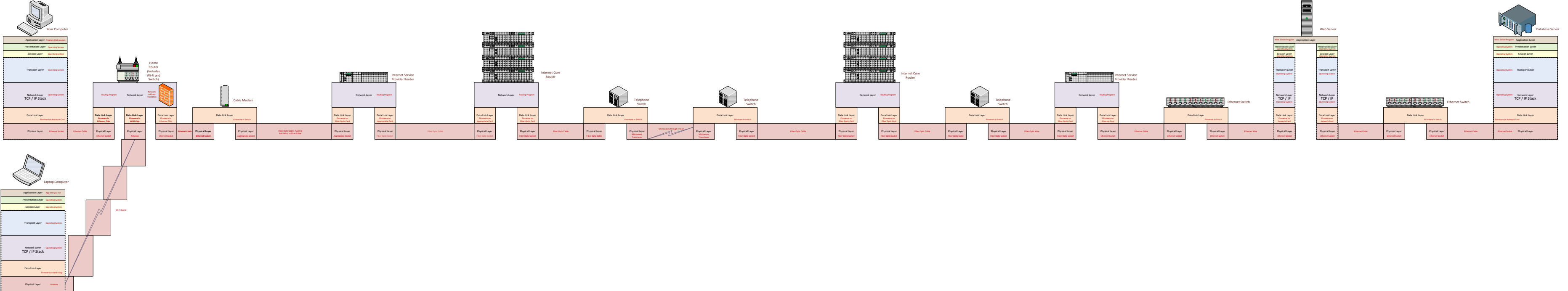
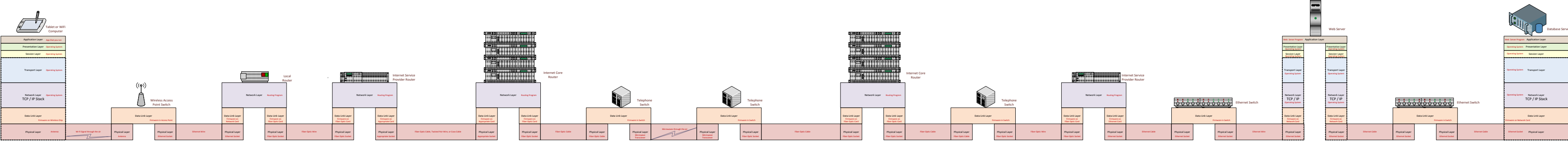
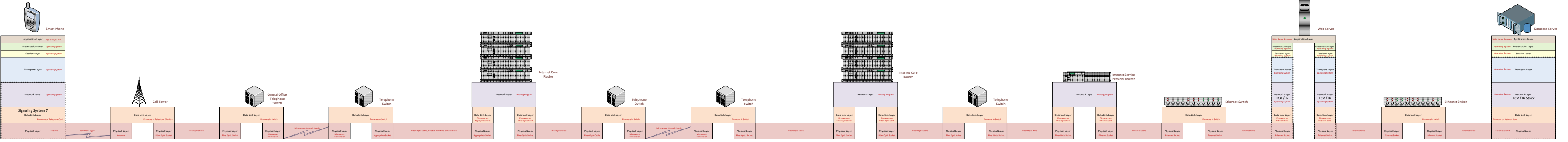


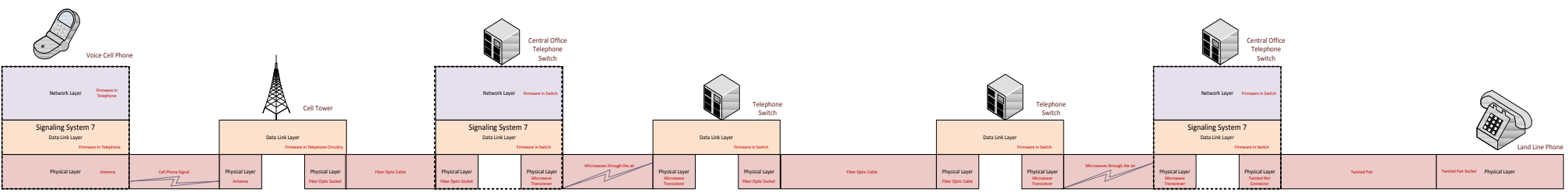
# Internet Connections and the OSI Model





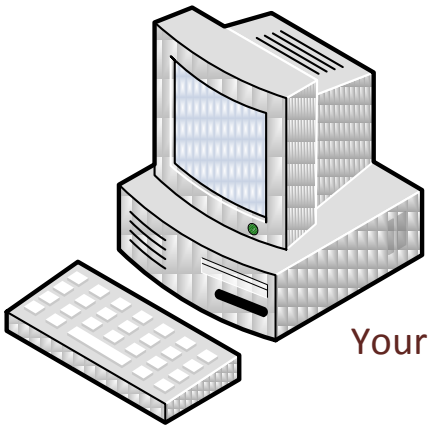




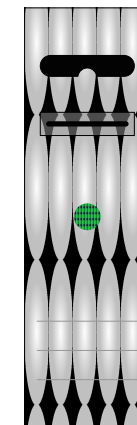


# The ISO/OSI Model

The International Standards Organization / Open Systems Interface Model

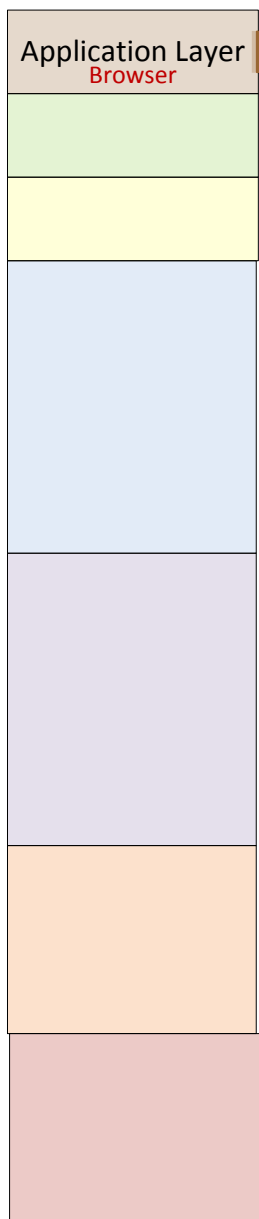


Your Computer



Web Server

Desired data flow ----->



Application Layer  
Browser



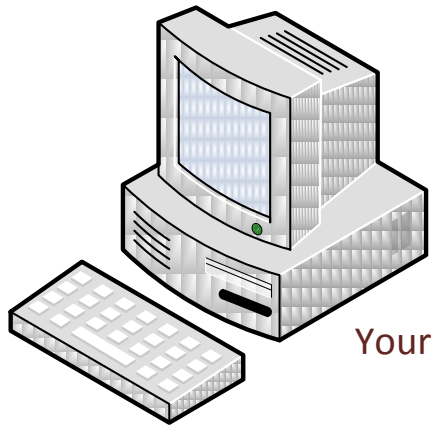
Application Layer  
Web Server Program



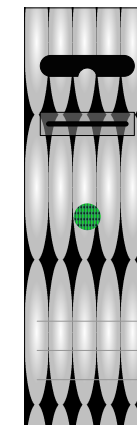
Get(page, 32)

Actual Data Flow  
-----<



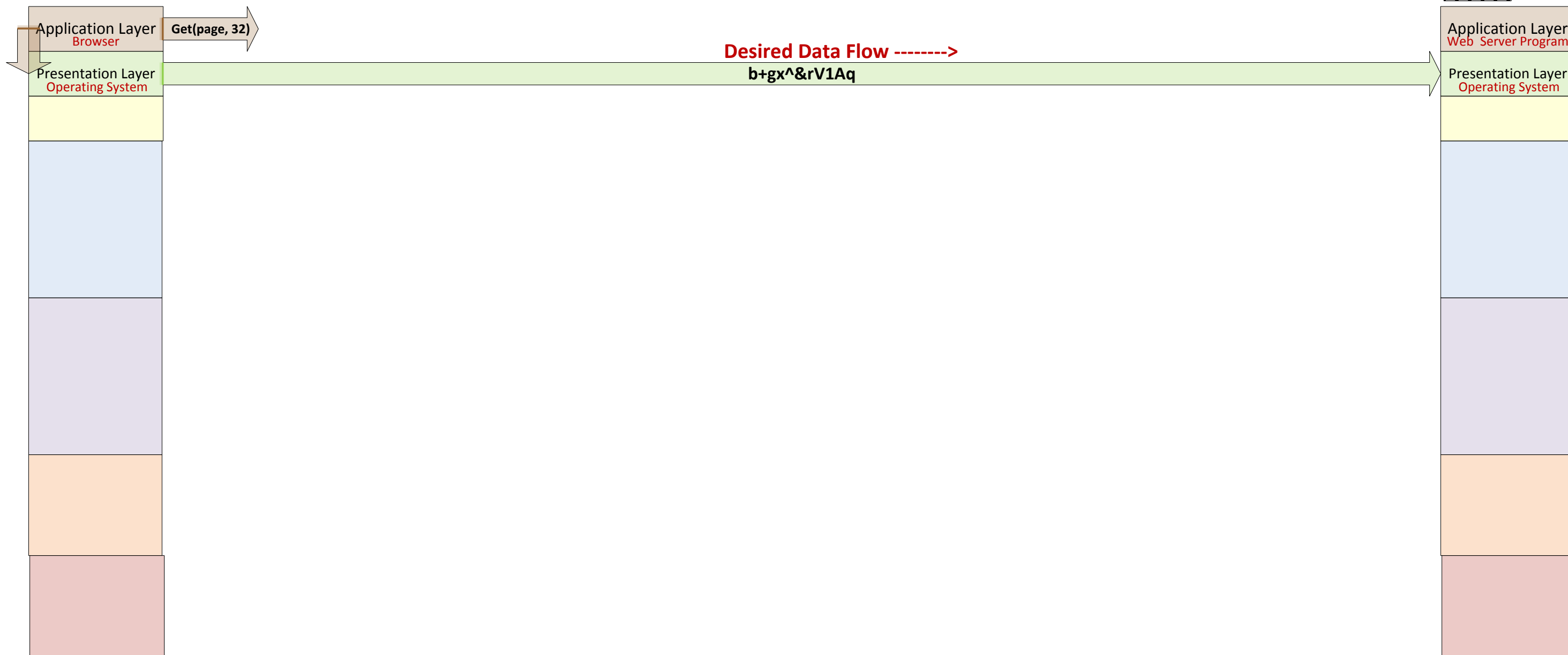


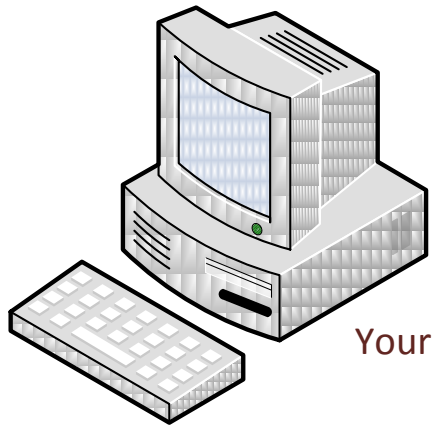
Your Computer



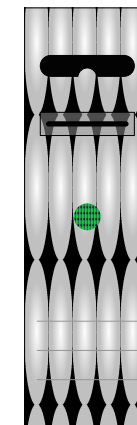
Web Server

Actual Data Flow



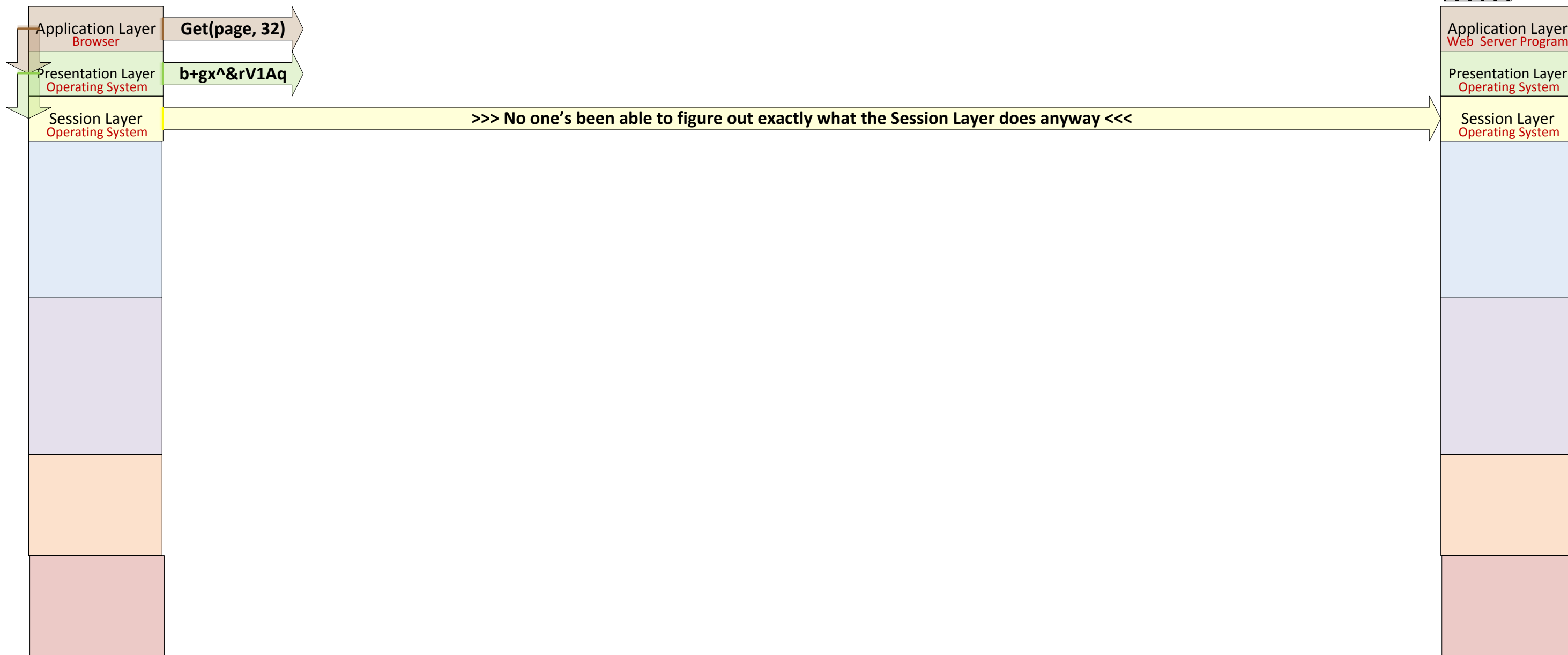


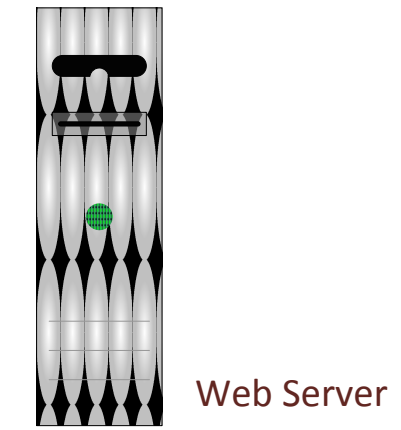
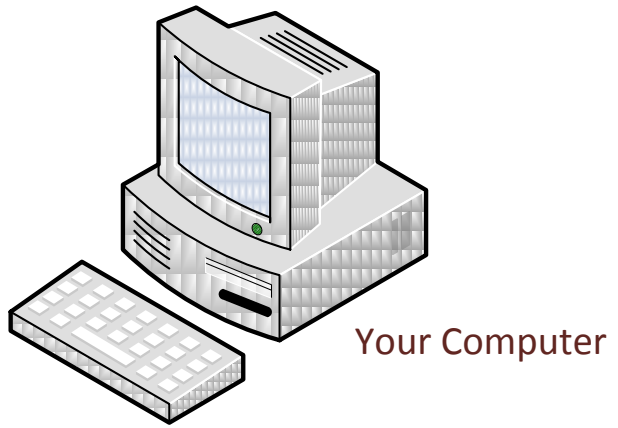
Your Computer



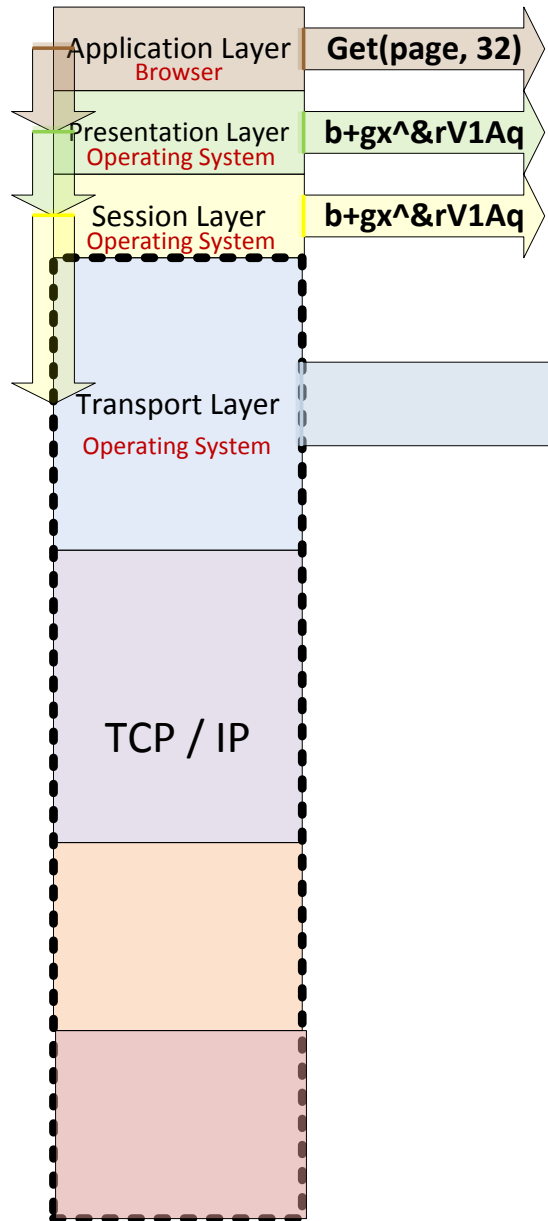
Web Server

←----- Actual Data Flow





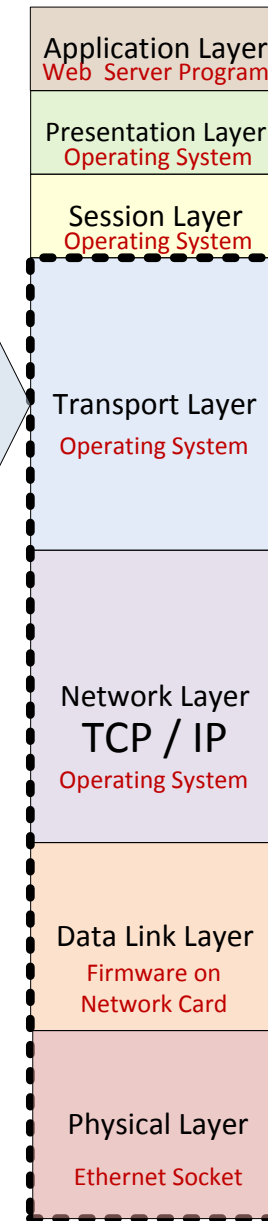
Actual Data Flow



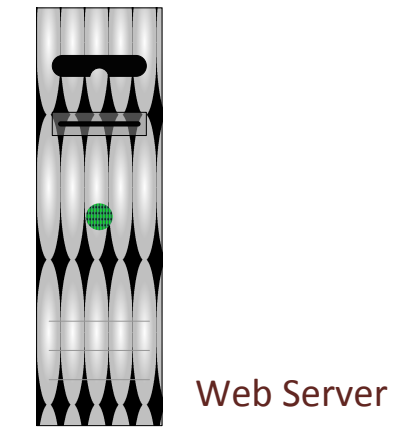
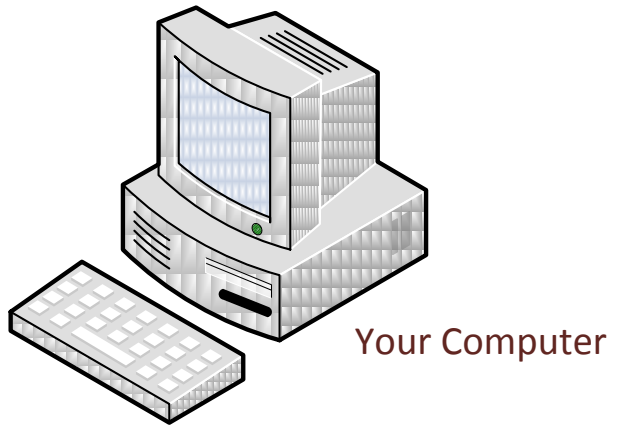
Your Computer

Desired Data Flow ----->

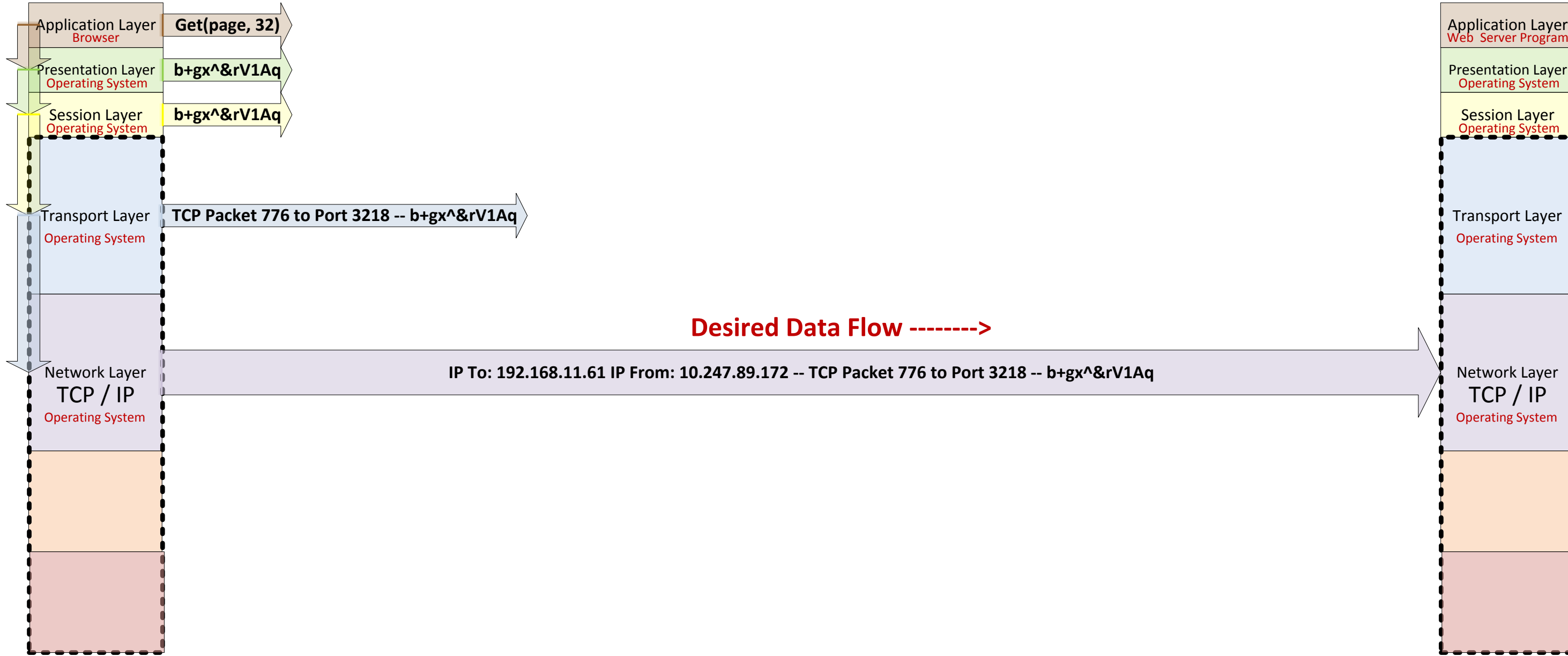
TCP Packet 776 to Port 3218 -- b+gx^&rV1Aq

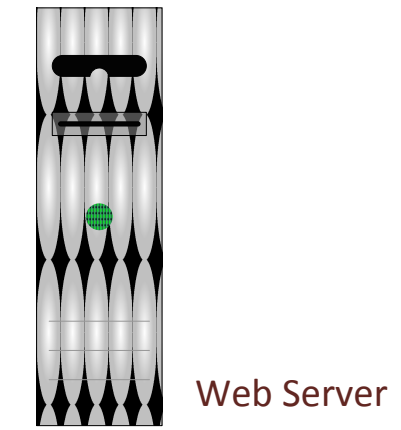
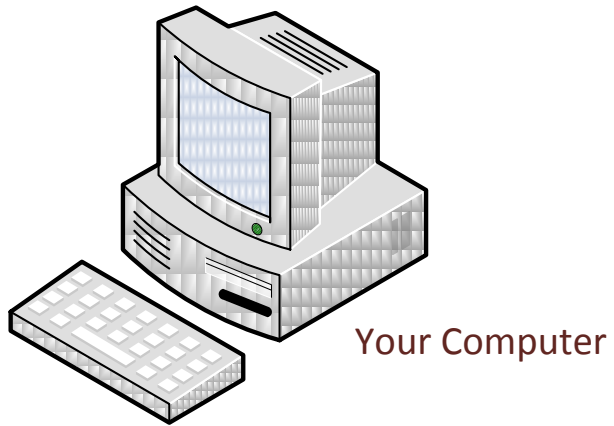


Web Server

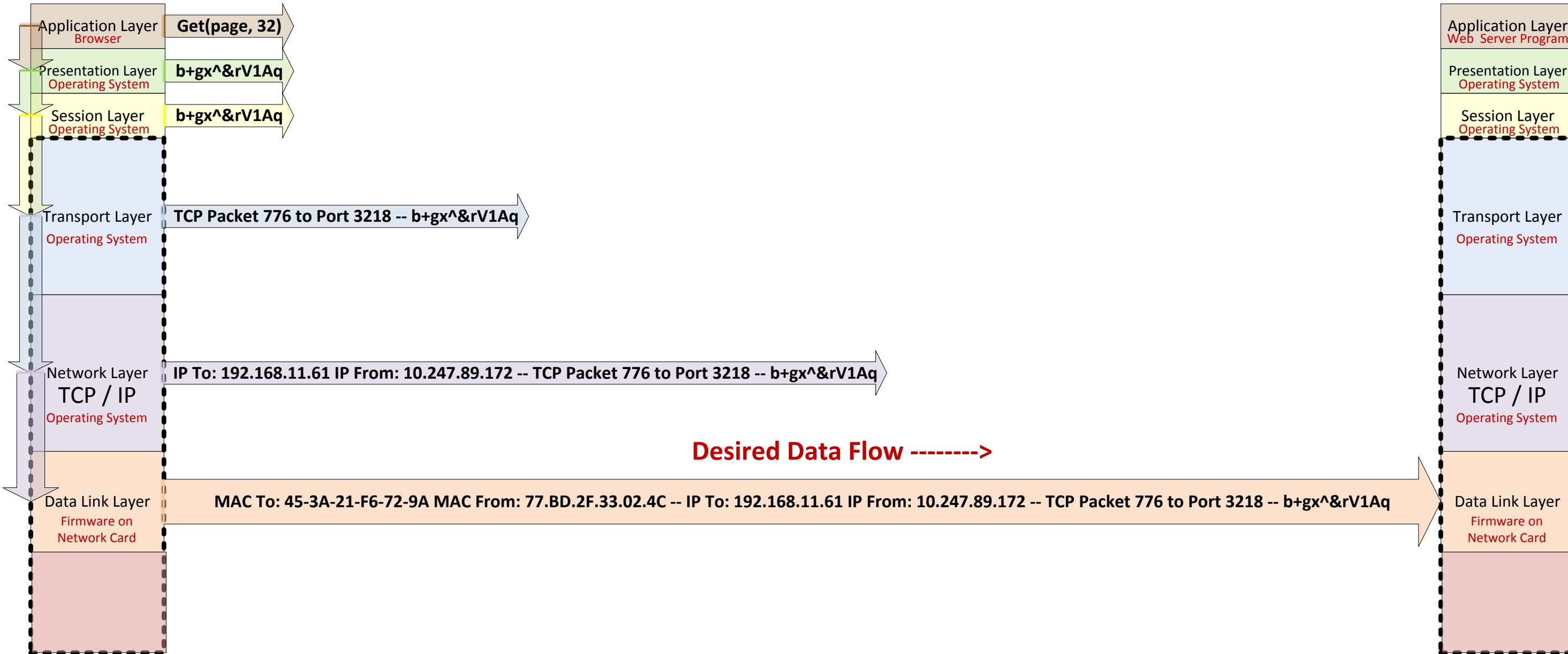


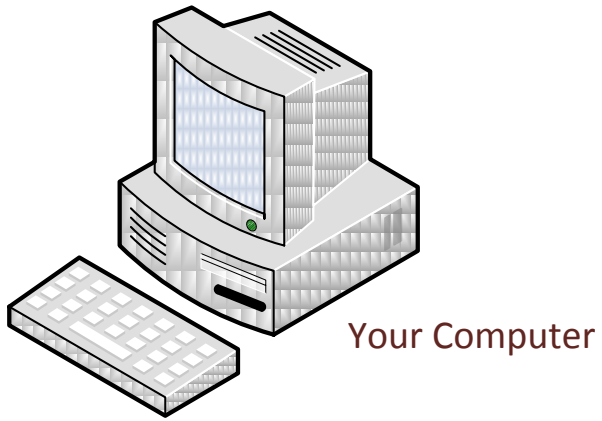
←----- Actual Data Flow



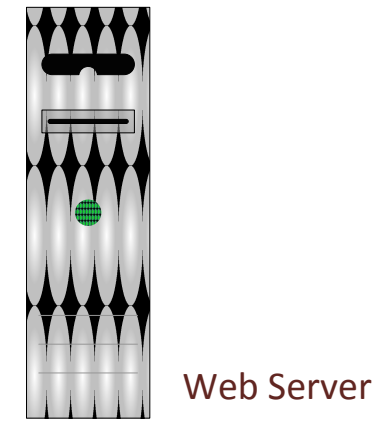


Actual Data Flow



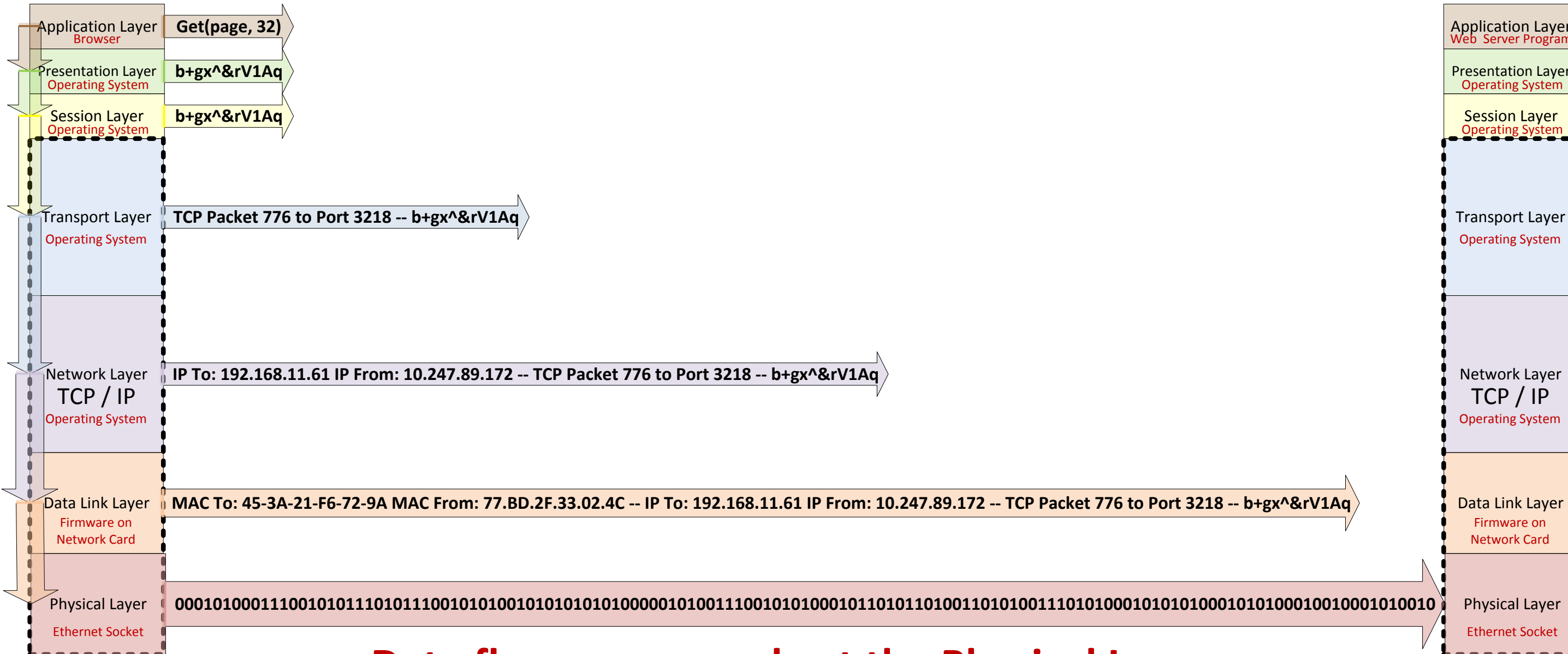


Your Computer

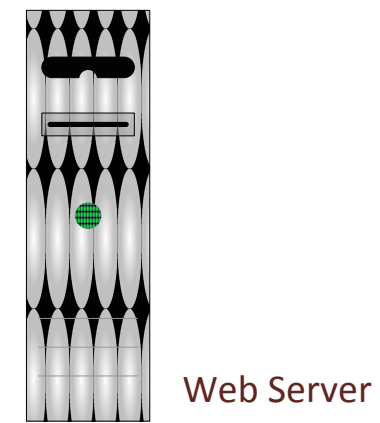
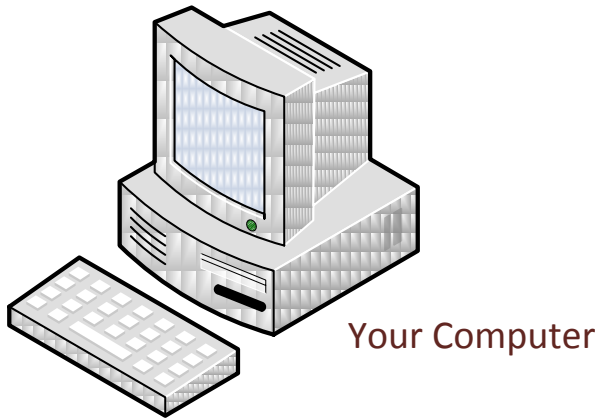


Web Server

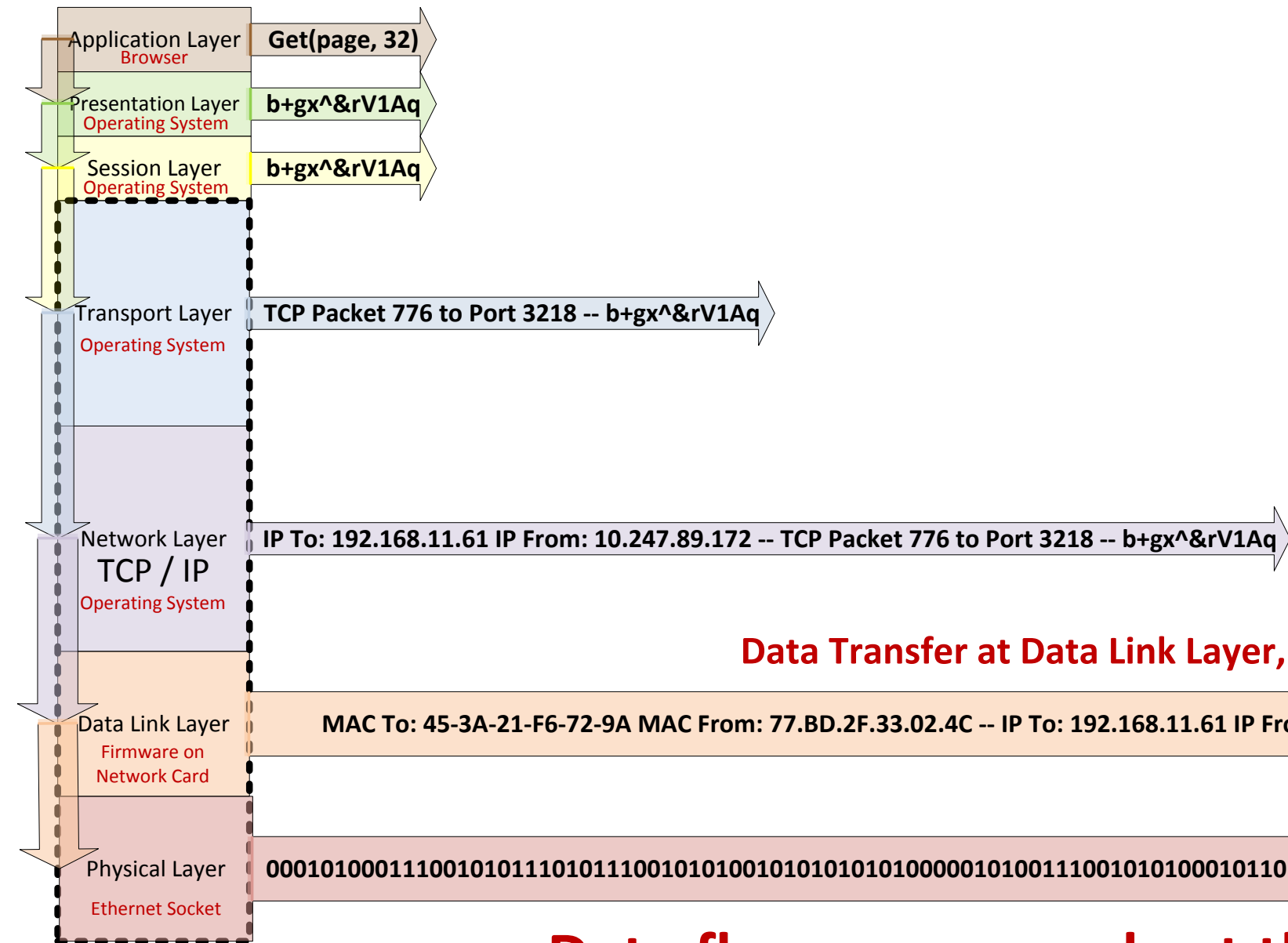
Actual Data Flow



Data flows across only at the Physical Layer ----->

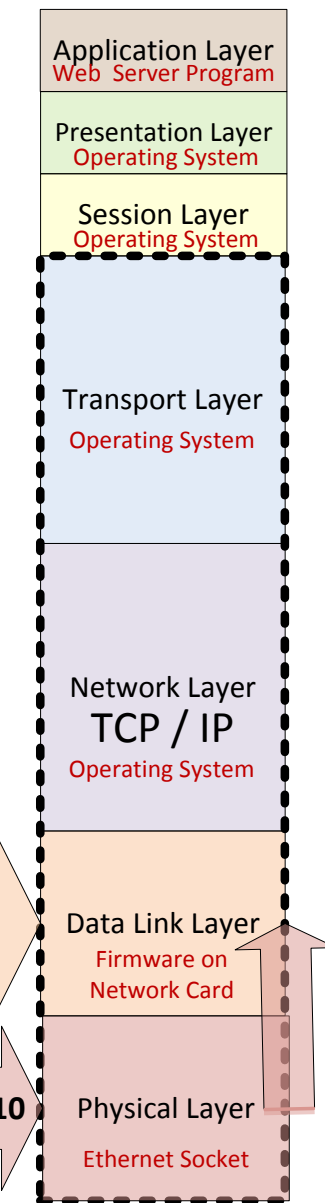


Actual Data Flow

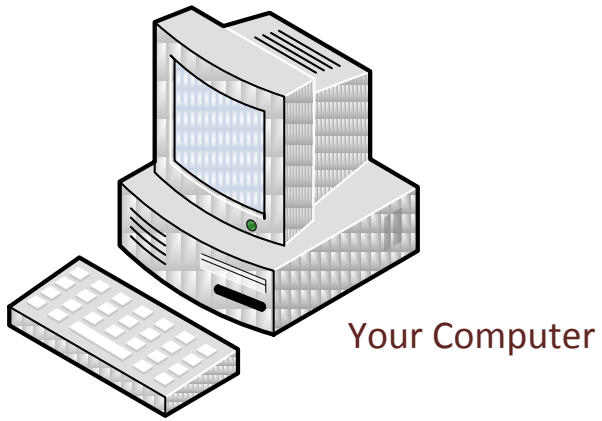


Data Transfer at Data Link Layer, apparently direct ----->

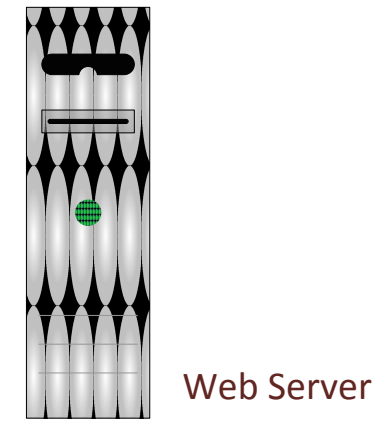
Data flows across only at the Physical Layer ----->



Actual Data Flow

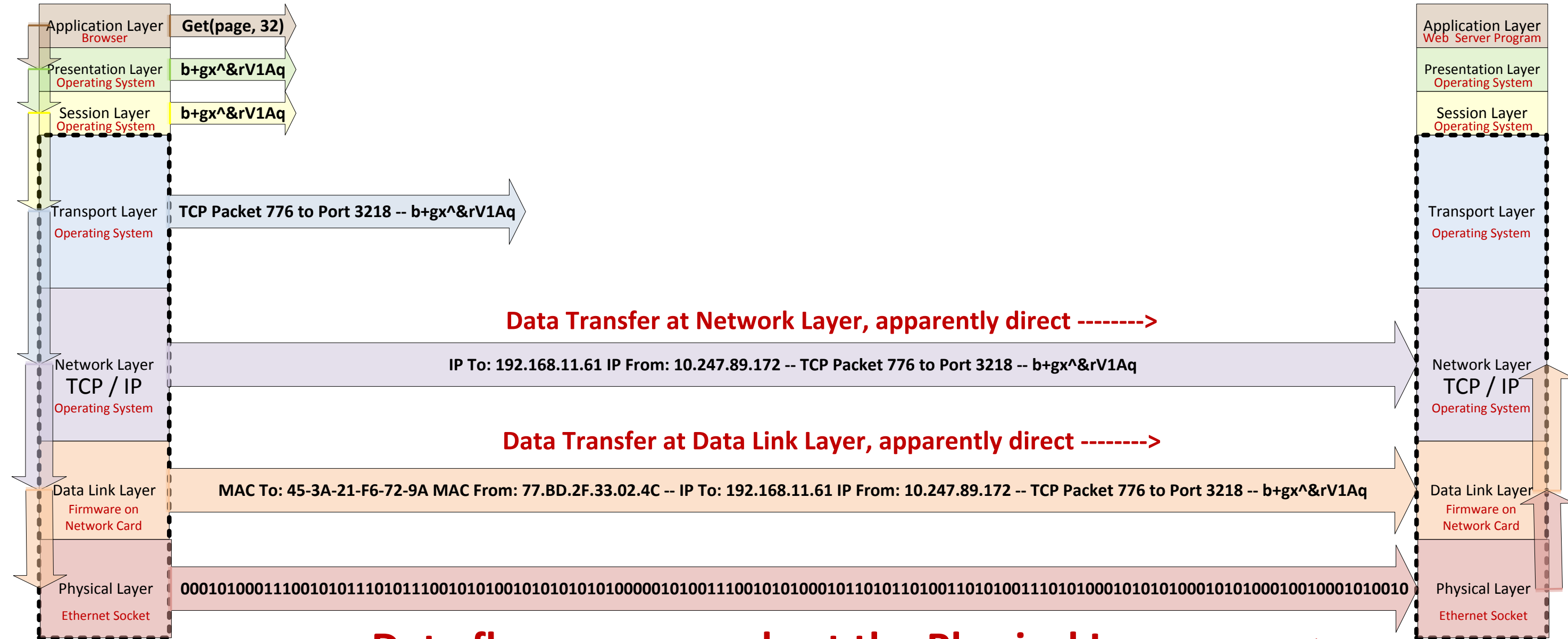


Your Computer



Web Server

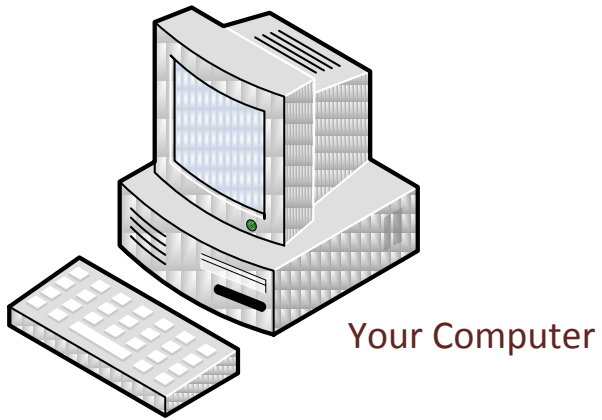
Actual Data Flow



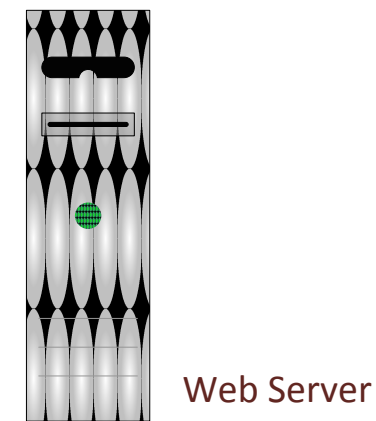
Data flows across only at the Physical Layer

Actual Data Flow



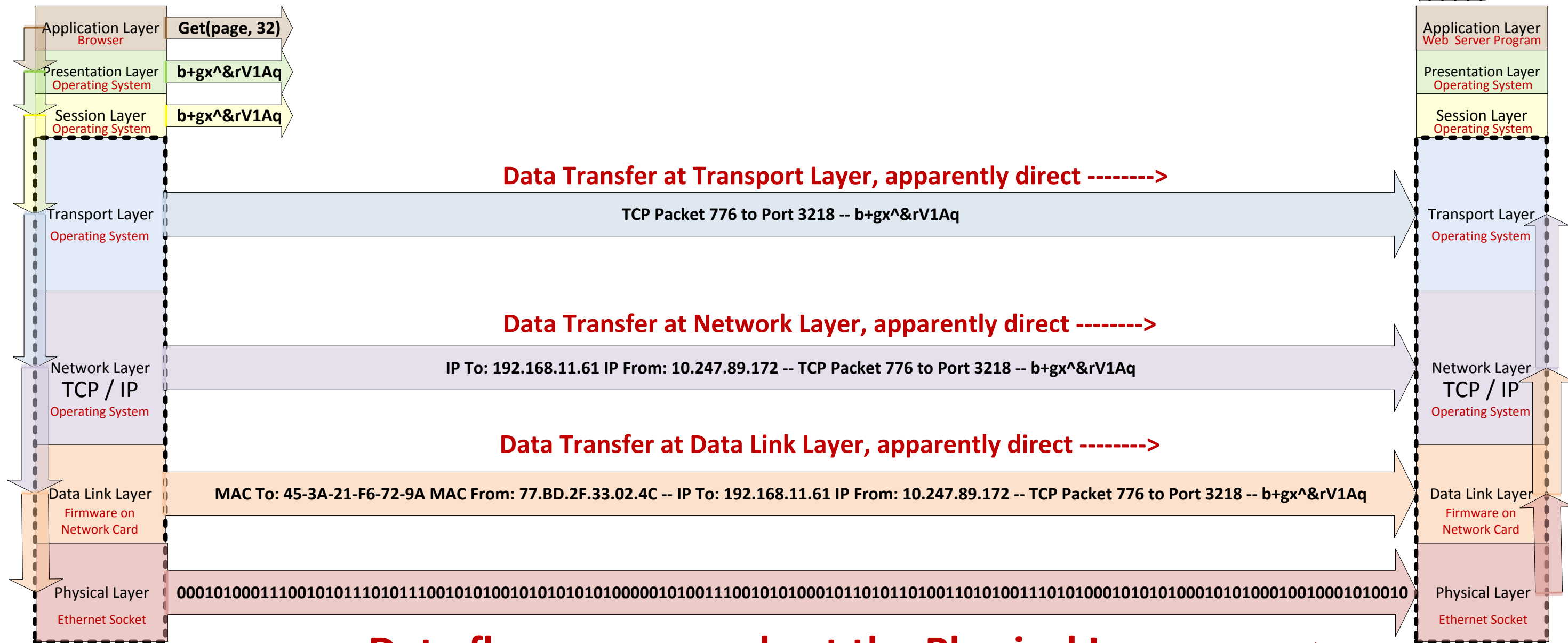


Your Computer



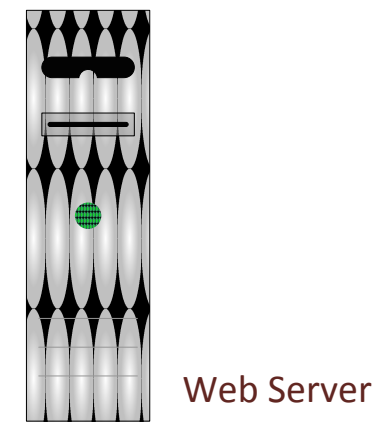
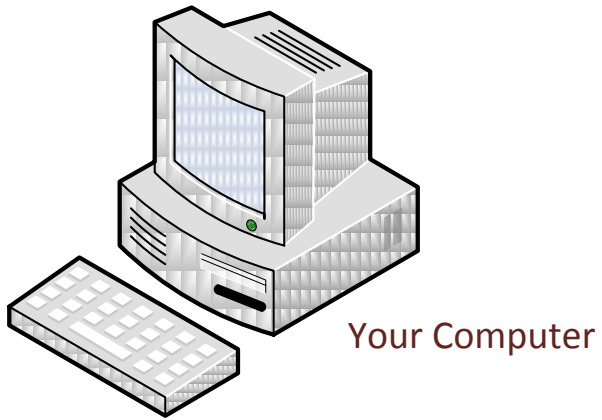
Web Server

Actual Data Flow



Data flows across only at the Physical Layer ----->

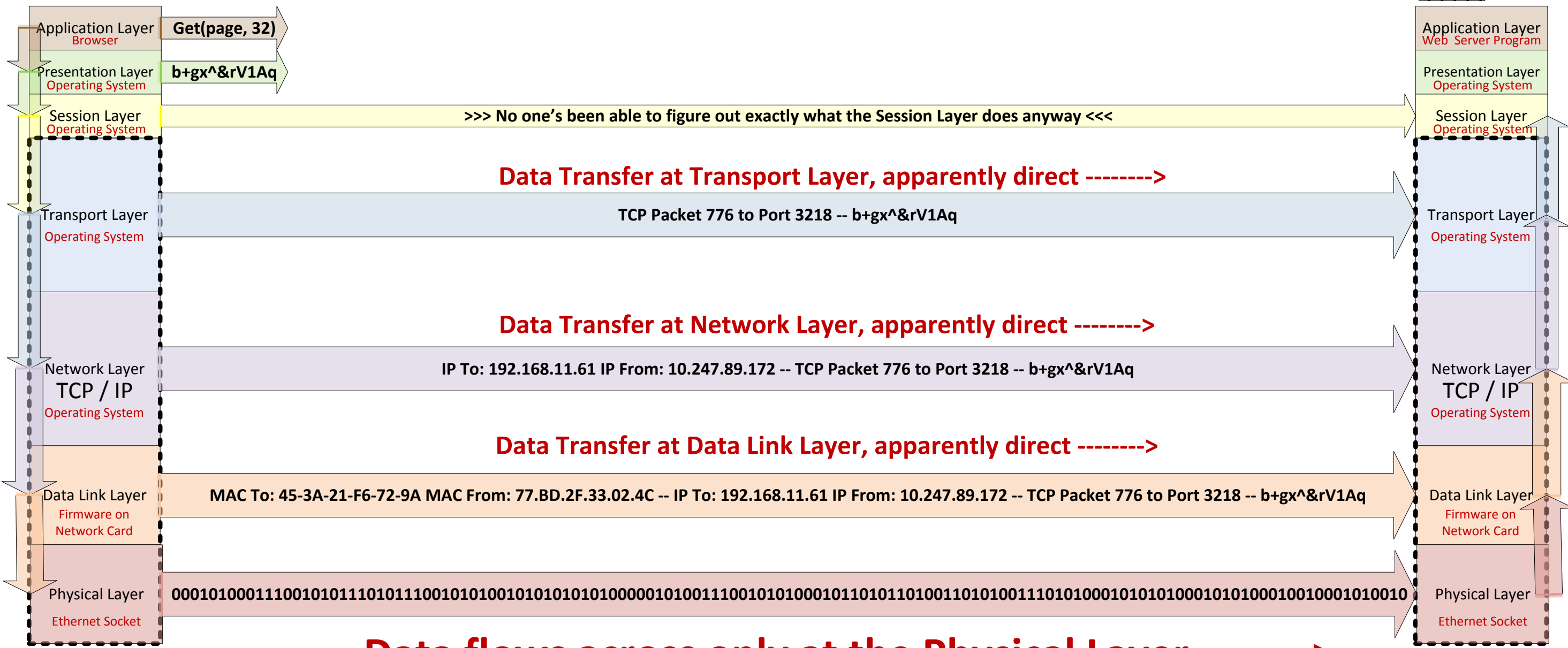
Actual Data Flow



Actual Data Flow

Actual Data Flow

Data flows across only at the Physical Layer



Application Layer

Browser

Get(page, 32)

Presentation Layer

Operating System

b+gx^&rV1Aq

Session Layer

Operating System

>>> No one's been able to figure out exactly what the Session Layer does anyway <<<

Transport Layer

Operating System

Data Transfer at Transport Layer, apparently direct

TCP Packet 776 to Port 3218 -- b+gx^&rV1Aq

Network Layer

TCP / IP

Operating System

Data Transfer at Network Layer, apparently direct

IP To: 192.168.11.61 IP From: 10.247.89.172 -- TCP Packet 776 to Port 3218 -- b+gx^&rV1Aq

Data Link Layer

Firmware on Network Card

Data Transfer at Data Link Layer, apparently direct

MAC To: 45-3A-21-F6-72-9A MAC From: 77.BD.2F.33.02.4C -- IP To: 192.168.11.61 IP From: 10.247.89.172 -- TCP Packet 776 to Port 3218 -- b+gx^&rV1Aq

Physical Layer

Ethernet Socket

0001010001110010101110101110010101001010101010000010100111001010100010110101101001110101000101010001001000101001010010

Application Layer

Web Server Program

Presentation Layer

Operating System

Session Layer

Operating System

Transport Layer

Operating System

Network Layer

TCP / IP

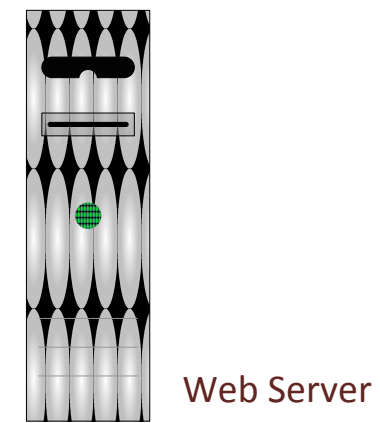
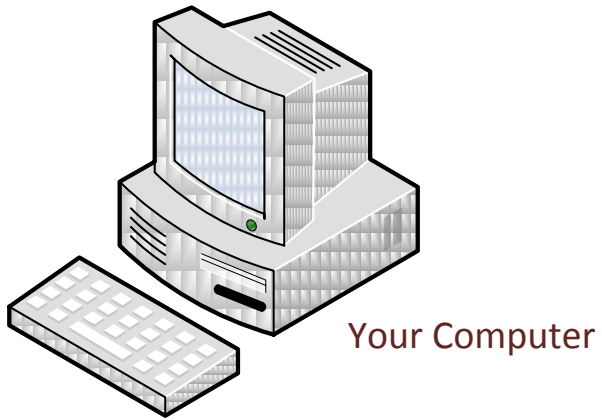
Operating System

Data Link Layer

Firmware on Network Card

Physical Layer

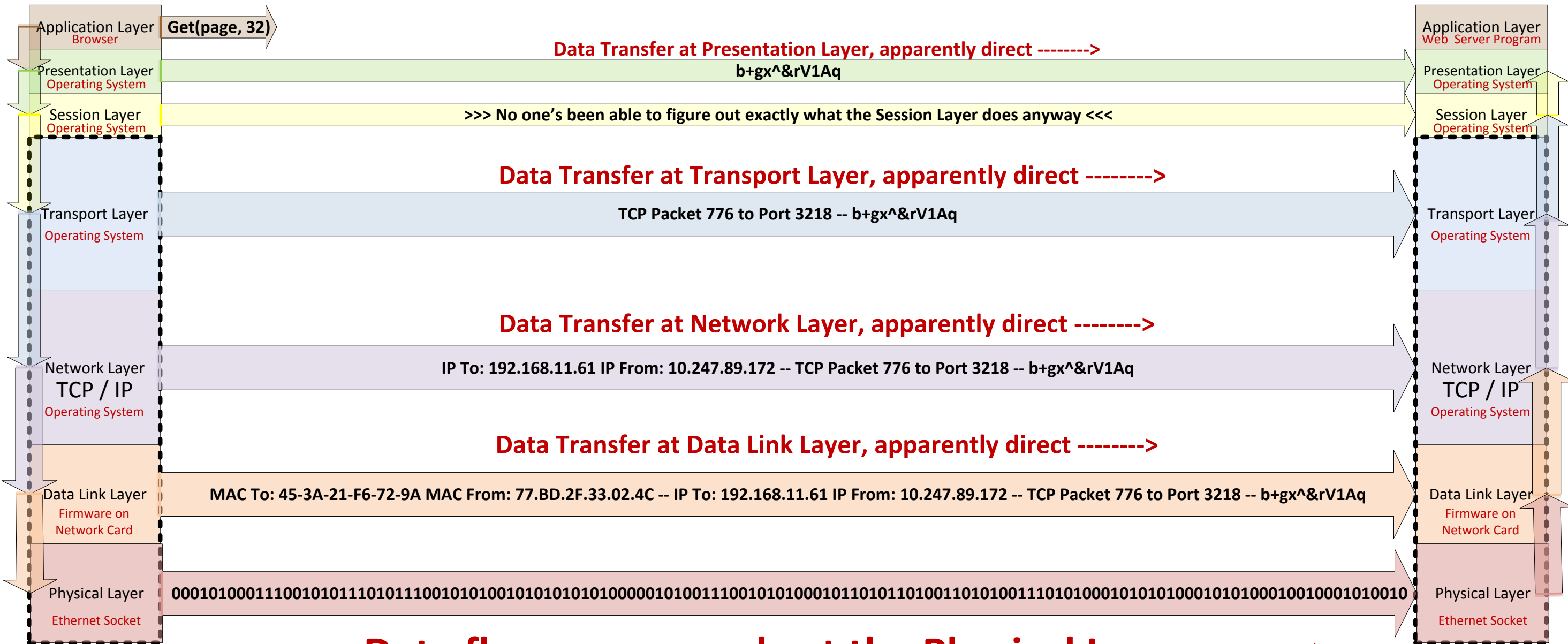
Ethernet Socket

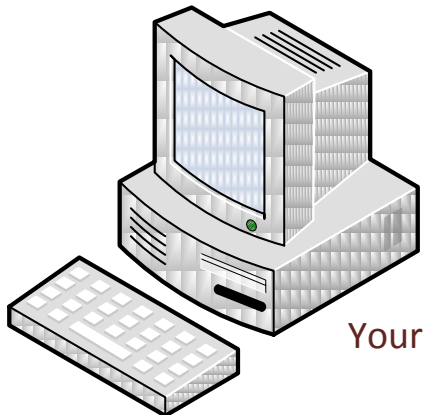


Actual Data Flow

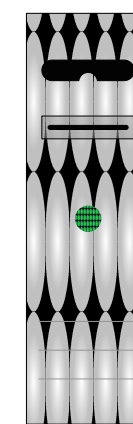
Actual Data Flow

Data flows across only at the Physical Layer





Your Computer



Web Server

**Data Transfer Between Applications, apparently direct ----->**

**Data Transfer at Presentation Layer, apparently direct ----->**

>>> No one's been able to figure out exactly what the Session Layer does anyway <<<

**Data Transfer at Transport Layer, apparently direct ----->**

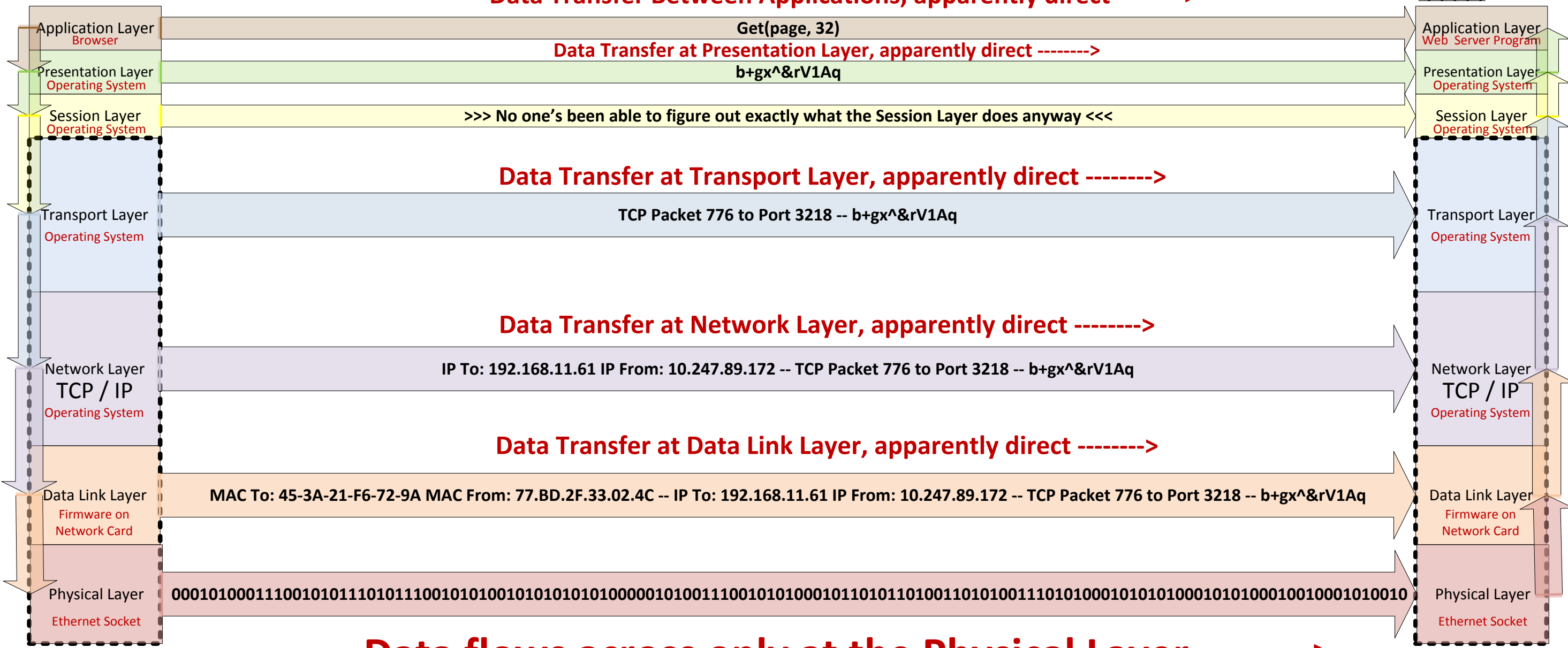
**Data Transfer at Network Layer, apparently direct ----->**

**Data Transfer at Data Link Layer, apparently direct ----->**

**Data flows across only at the Physical Layer ----->**

**Actual Data Flow**

**Actual Data Flow**



End of Presentation