- ▸ Explore with wireshark
- ▸ Fire up, then surf:
  - ◦ http://info.cern.ch/hypertext/WWW/TheProject.html
- ▸ Name the protocol of each layer
- ▸ Identify:
  - ◦ Source MAC
  - ◦ Destination MAC
  - ◦ Source IP
  - ◦ Destination IP
  - ◦ Source port
  - ◦ Destination port

Source mac & Destination mac:

```
Frame 9: 322 bytes on wire (2576 bits), 322 bytes captured (2576 bits) on interface \Devi
Ethernet II, Src: HewlettPacka_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: PaceAmericas_11:e2:b9 (
  Destination: PaceAmericas_11:e2:b9 (ac:5d:10:11:e2:b9)
  Source: HewlettPacka_a7:bf:a3 (d4:85:64:a7:bf:a3)
  Type: IPv4 (0x0800)
  [Stream index: 0]
Internet Protocol Version 4, Src: 192.168.1.72, Dst: 98.136.187.13
Transmission Control Protocol, Src Port: 6128, Dst Port: 80, Seq: 1, Ack: 1, Len: 268
Hypertext Transfer Protocol
```

Source IP & Destination IP:

```
Frame 9: 322 bytes on wire (2576 bits), 322 bytes captured (2576 bits) on interface \D
Ethernet II, Src: HewlettPacka_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: PaceAmericas_11:e2:b
Internet Protocol Version 4, Src: 192.168.1.72, Dst: 98.136.187.13
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 308
    Identification: 0x03a7 (935)
  010. .... = Flags: 0x2, Don't fragment
    ...0 0000 0000 0000 = Fragment Offset: 0
    Time to Live: 128
    Protocol: TCP (6)
    Header Checksum: 0x0000 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 192.168.1.72
    Destination Address: 98.136.187.13
    [Stream index: 1]
Transmission Control Protocol, Src Port: 6128, Dst Port: 80, Seq: 1, Ack: 1, Len: 268
Hypertext Transfer Protocol
```

Source port & Destination port:

```
Frame 9: 322 bytes on wire (2576 bits), 322 bytes captured (2576 bits) on interface \De
Ethernet II, Src: HewlettPacka_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: PaceAmericas_11:e2:b9
Internet Protocol Version 4, Src: 192.168.1.72, Dst: 98.136.187.13
Transmission Control Protocol, Src Port: 6128, Dst Port: 80, Seq: 1, Ack: 1, Len: 268
    Source Port: 6128
    Destination Port: 80
    [Stream index: 0]
  [Conversation completeness: Complete, WITH_DATA (31)]
    [TCP Segment Len: 268]
    Sequence Number: 1    (relative sequence number)
    Sequence Number (raw): 611441745
    [Next Sequence Number: 269    (relative sequence number)]
    Acknowledgment Number: 1    (relative ack number)
    Acknowledgment number (raw): 581494200
    0101 .... = Header Length: 20 bytes (5)
  Flags: 0x018 (PSH, ACK)
    Window: 16425
    [Calculated window size: 65700]
    [Window size scaling factor: 4]
    Checksum: 0xe0ac [unverified]
    [Checksum Status: Unverified]
    Urgent Pointer: 0
  [Timestamps]
  [SEQ/ACK analysis]
    TCP payload (268 bytes)
Hypertext Transfer Protocol
```