IP ADDRESS

CyberQuince

Application Layer

Presentation Layer

Processes

Session Layer

Port number

Transport Layer

IP address

Network Layer

MAC address

Data Link Layer

Physical Layer
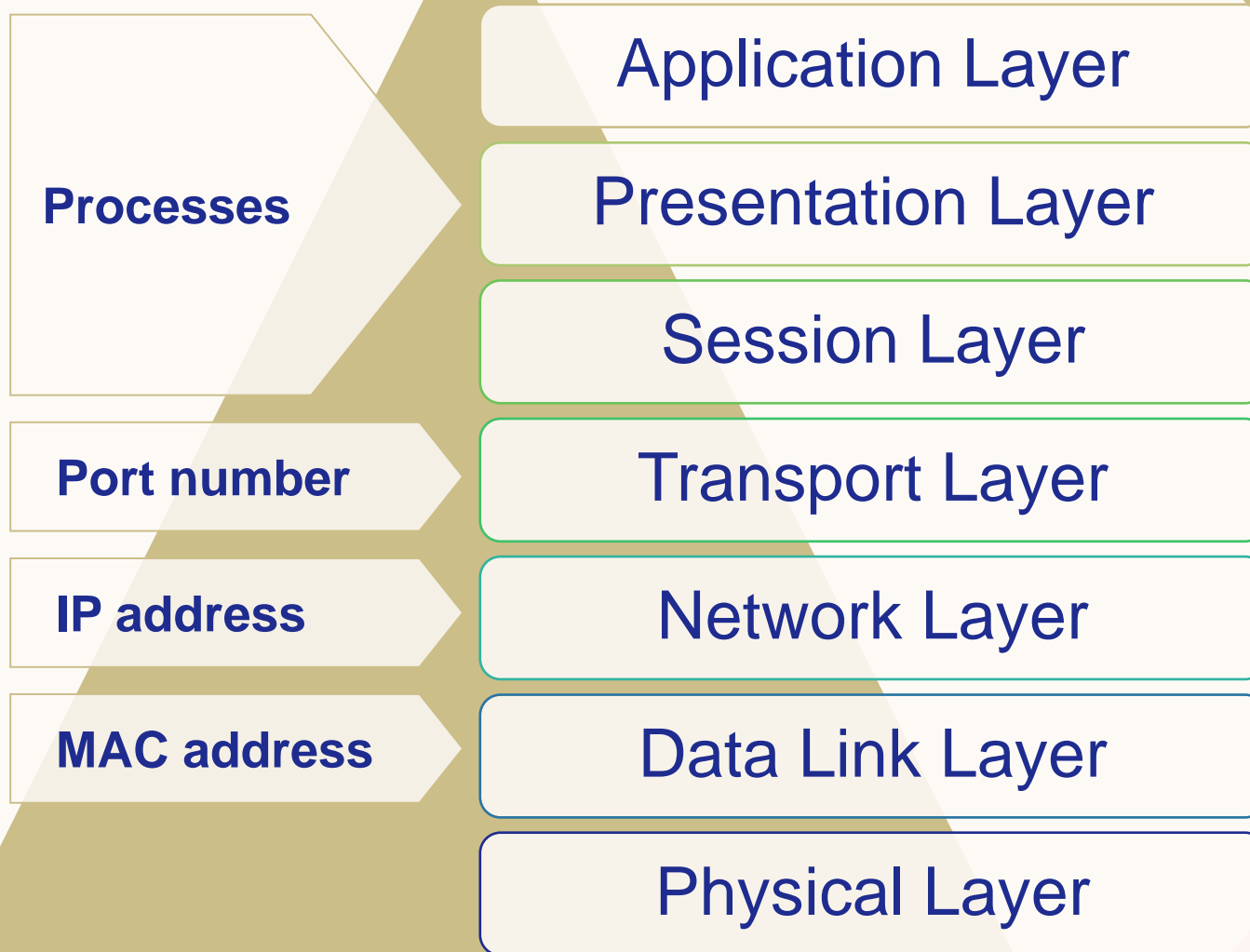
IP

Internet Protocol (IP) is the Internet layer – all other protocols on Layers 1-3 exist to support the IP.

IP ADDRESS

IP address is a unique numeric identifier.

71.205.0.13

IP address consists of 32 bits, is separated in 4 sections called "octets" or "bytes". Each octet holds 8 bits.

71.205.0.13

= 01000111.11001101.00000000.00001101

IP Addressing and Subnetting - Zero to Hero $19.99

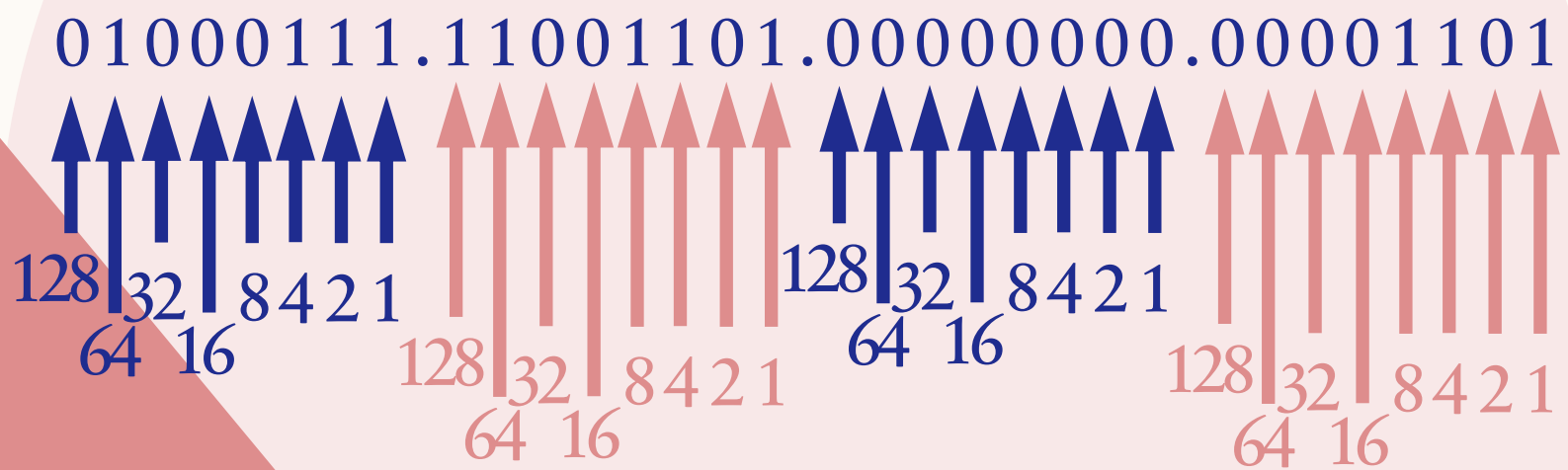Go from zero to advanced in **IP** addressing in a single course!

Cyber Quince

4.6 ★★★★⯪ (2,295)

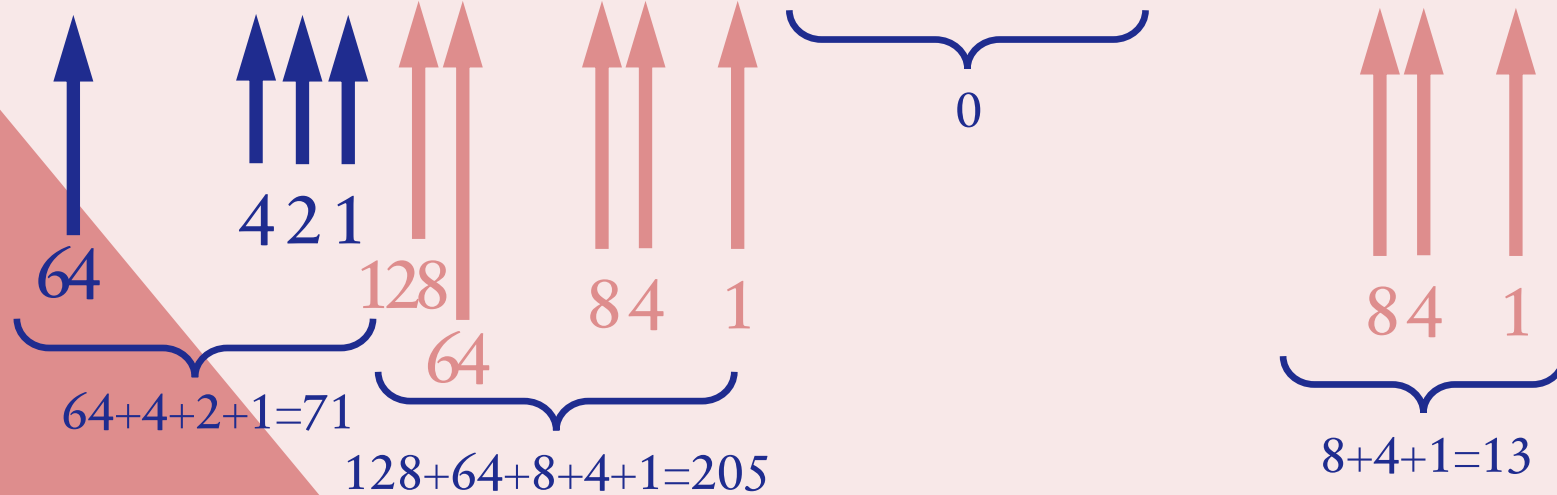2.5 total hours · 19 lectures · Beginner

71.205.0.13

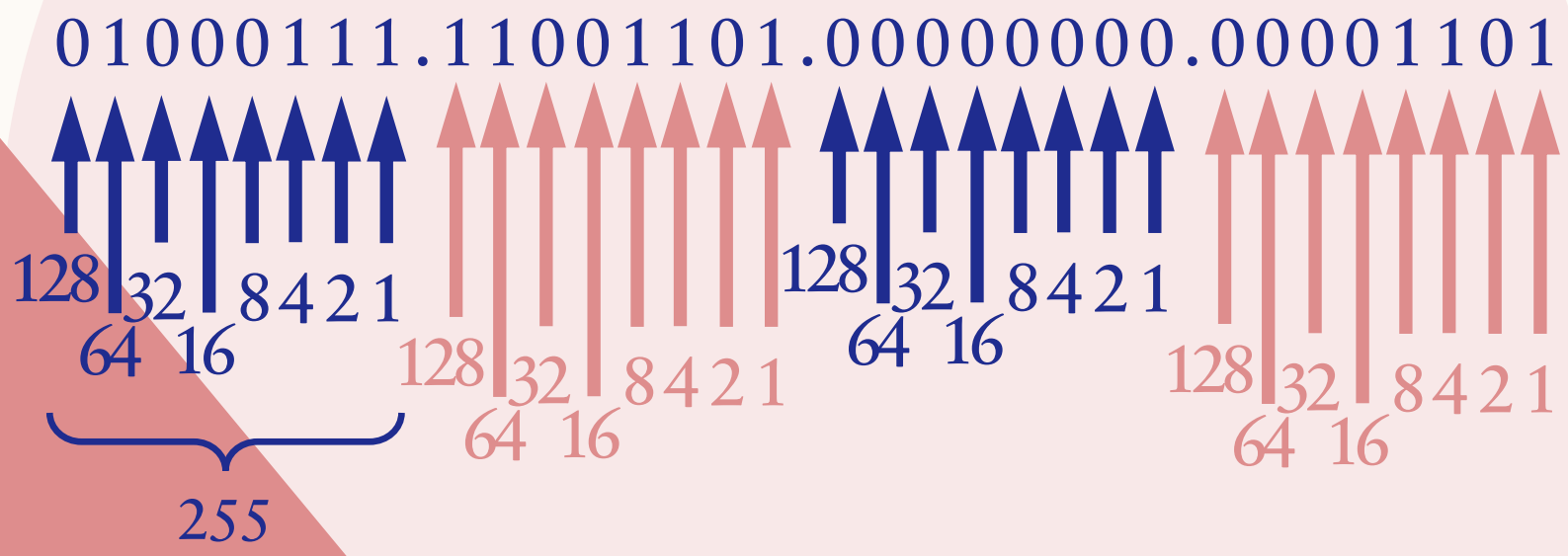= 01000111.11001101.00000000.00001101

71.205.0.13

= 01000111.11001101.00000000.00001101

01000111.11001101.00000000.00001101

64

4 2 1

64+4+2+1=71

128

64

8 4 1

128+64+8+4+1=205

0

8 4 1

8+4+1=13

71.205.0.13

= 01000111.11001101.00000000.00001101

01000111.11001101.00000000.00001101

128 32 8 4 2 1
64 16

255

128 32 8 4 2 1
64 16

128 32 8 4 2 1
64 16

128 32 8 4 2 1
64 16

71.255.0.13

= 01000111.11111111.00000000.00001101
$\underbrace{}_{255}$

IP ADDRESS

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