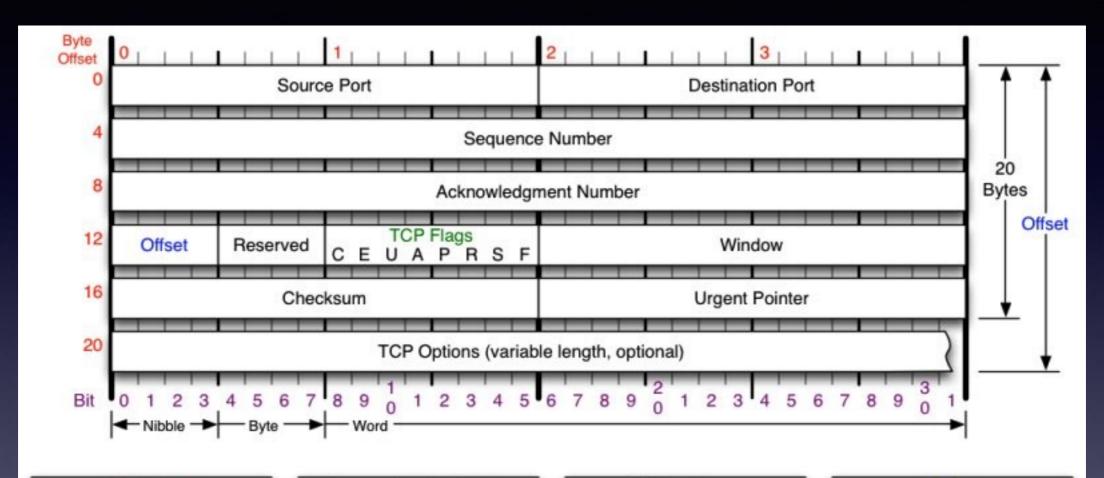
Le protocole TCP

- TCP (Transmission Control Protocol), RFC 793 (1981)
- Notion de port dédié (ex: HTTP/80) et de multiplexage
- Notion de connexion
 - contrôle d'erreur
 - contrôle de flux
 - contrôle de congestion
 - numéro de séquence unique pour chaque segment TCP
- Notion de drapeaux (SYN, ACK, RST, FIN...)

Le protocole TCP



C E U A P R S F Congestion Window C 0x80 Reduced (CWR) E 0x40 ECN Echo (ECE) U 0x20 Urgent A 0x10 Ack P 0x08 Push R 0x04 Reset S 0x02 Syn

F 0x01 Fin

TCP Flags

Congestion Notification

ECN (Explicit Congestion Notification). See RFC 3168 for full details, valid states below.

Packet State	DSB	ECN bits
Syn	00	11
Syn-Ack	00	01
Ack	01	00
No Congestion	01	00
No Congestion	10	00
Congestion	11	0.0
eceiver Response	11	01
Sender Resnonse	11	11

TCP Options

- 0 End of Options List
- 1 No Operation (NOP, Pad)
- 2 Maximum segment size
- 3 Window Scale
- 4 Selective ACK ok
- 8 Timestamp

Checksum

Checksum of entire TCP segment and pseudo header (parts of IP header)

Offset

Number of 32-bit words in TCP header, minimum value of 5. Multiply by 4 to get byte count.

RFC 793

Please refer to RFC 793 for the complete Transmission Control Protocol (TCP) Specification.