ENSC-351

XMODEM Protocol Background

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From noisy telephone lines to CISCO switches

- The XMODEM file transfer protocol was devised many years ago to be able to reliably transfer files between computers, possibly over noisy telephone lines where some bits being transmitted might get corrupted.
- The protocol has still been used in recent years, for example to copy firmware to a CISCO C3750 switch. Product in photo is \$ 700 USD: https://www.youtube.com/watch?v=SI98ySW6JWQ&t=4m9s



Old 300 bps Modem from back in the day

 The protocol was originally used with modems running no faster than 300bps (bits per second). That's REALLY slow by today's standards.



 Here's a demo of a modem from that time in the computer age: https://www.youtube.com/watch?v=X9dpXHnJXaE&t=2m49s Of course, the typical phone didn't have buttons back on those days: https://www.youtube.com/watch?v=u52UUO6vN-E&t=1m7s

Typical phone back in the day

• But we digress...

