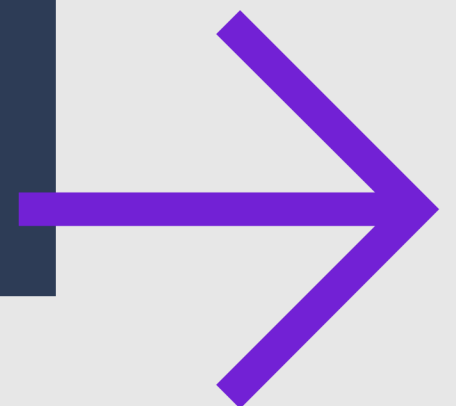




SOC ANALYST SERIES



1. NETWORKS



30 DAYS - 30
TOPICS

1 GOAL

GET READY TO
BE A
SOC ANALYST





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Networks



The smallest possible
network is peer-to-peer

that means 1 computer to 1
computer (directly)

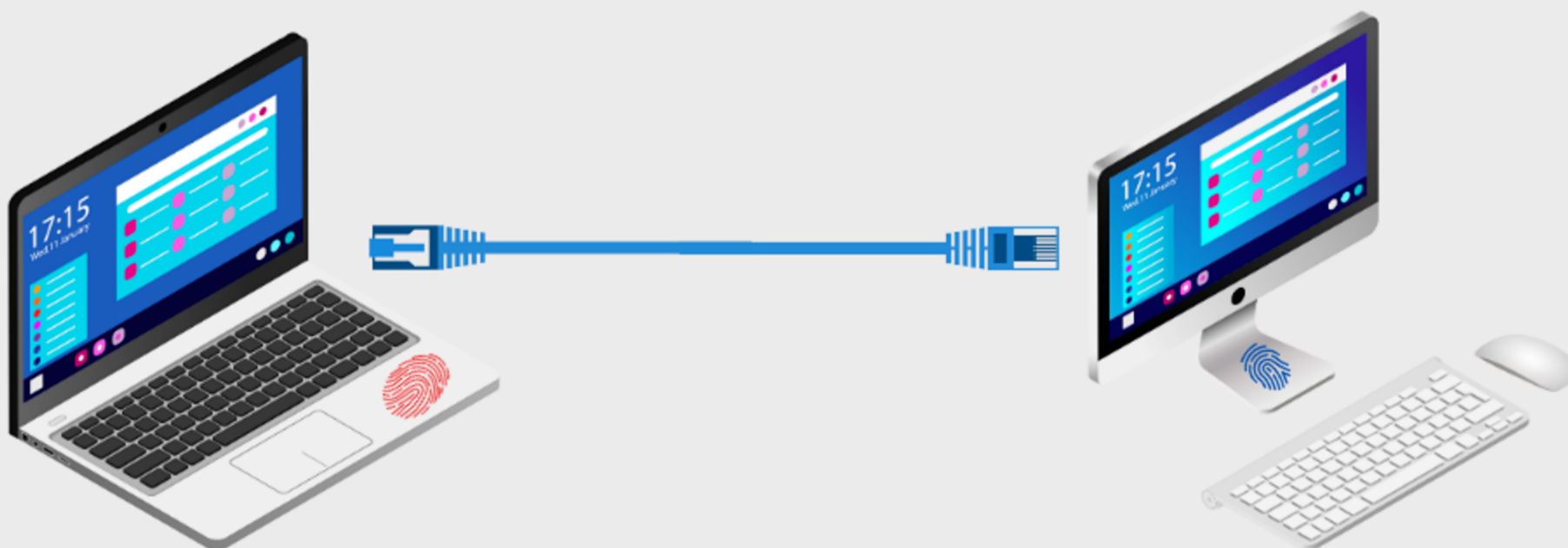
computer1 \longleftrightarrow computer2





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P2P Network



In order to connect them you
need:

- a cable
- and one network
interface controller (NIC)
each

(sometimes they are also
called network cards)



Back in my days



you needed to have a special
type of ethernet cable to
directly connect 2 computers:

Cross-Over cables

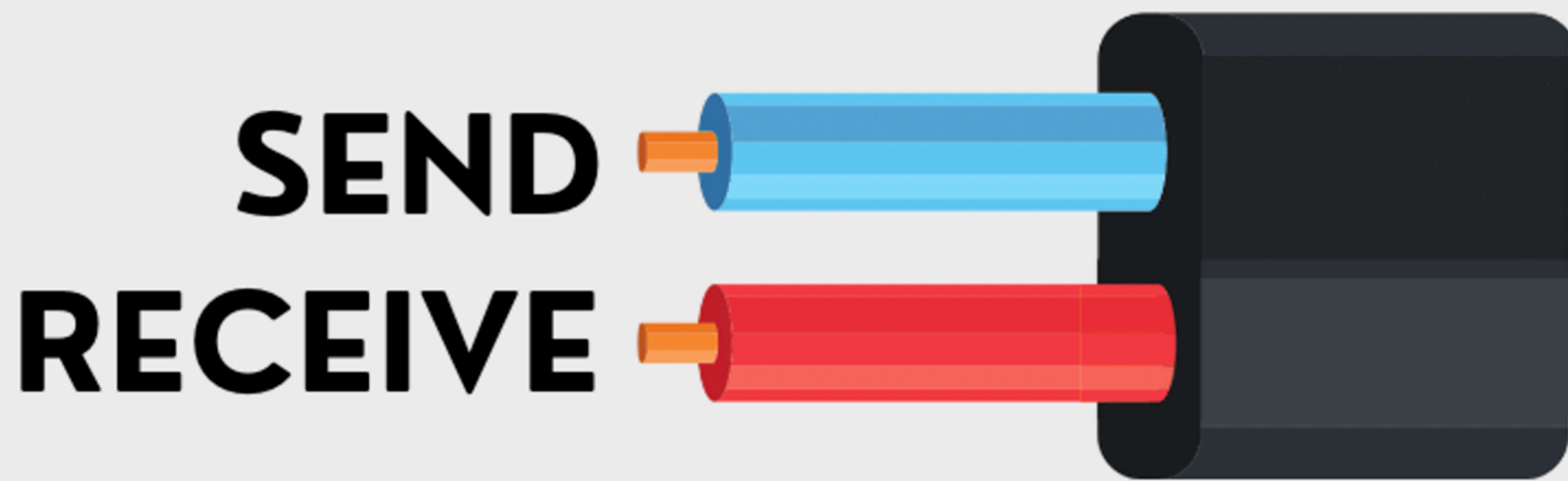
Cross-what?



In order to understand this
concept better

let's use a reduced proof of
concept (POC)





We have a 2 pole cable that shall connect two devices

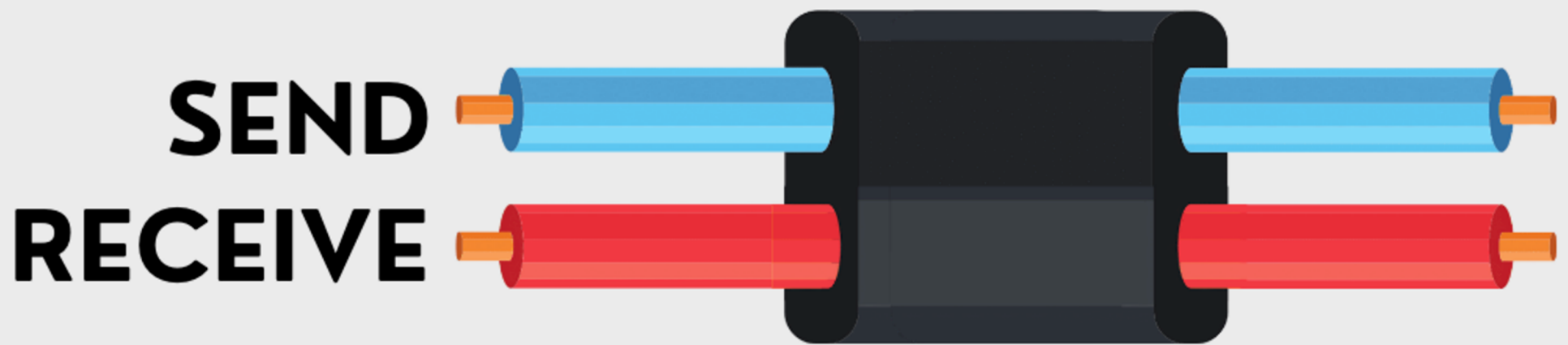
You plug it into one device on the left side and another one on the right





HOW DO YOU MAKE SURE THEY CAN EXCHANGE INFORMATION?





First try:
Machine 1 on the left sends data
via the Send cable (blue)

and that one is plugged into the
Send (blue) on the other side





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Well ... That wont work, right?!

Exactly!

If we push data over the "Send"
cable the data will not be
received because...

well it is not hitting the receive
cable 🧑



How about:

SEND
RECEIVE



SEND
RECEIVE





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DING DING DING, we have a
winner. 🙌🏆

If we swap the positions of Send
and Receive
the devices can exchange
information

because they each get the
correct data on the port they
expect it





uh... What's a port?

Good question!

As you probably know, a cable
needs to be plugged in
somewhere

No plug, no need for a cable -
much like wifi cable 😎





Wifi cable



A physical port is the connector
that you plug your cable into

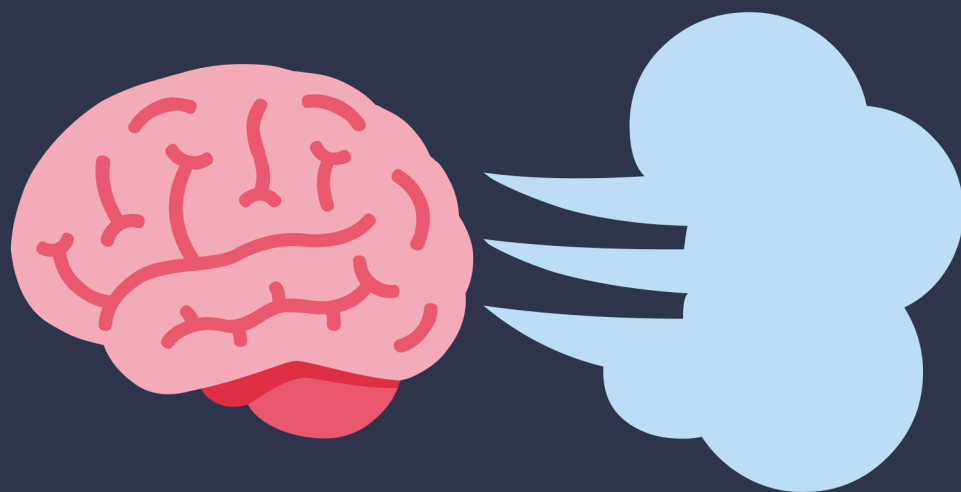
It might also be broken down
into many ports,
one for each of the poles inside
the cable



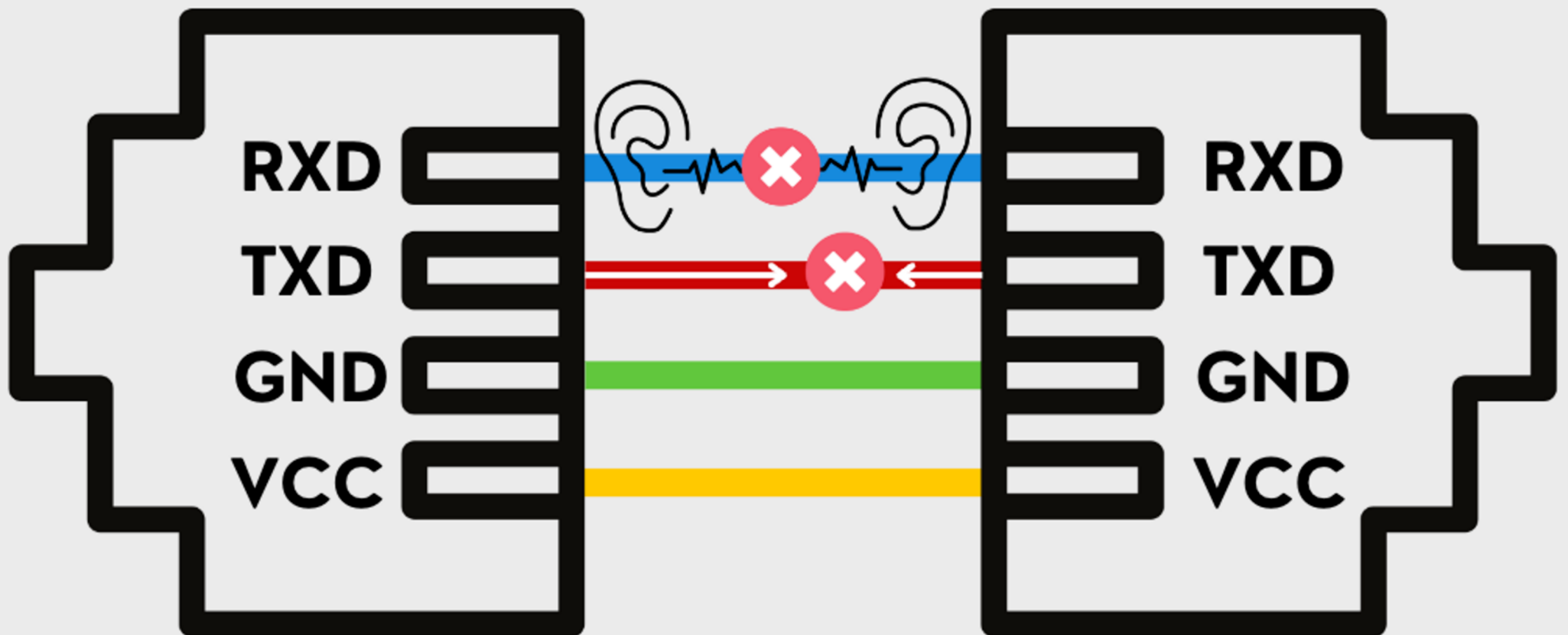
Let us also visualize this
concept a little more with some
bare-minimum concepts.

OK MY MIND IS YOURS





Port Traffic Jam



A cable can be imagined similar
to a railway 🚆

its one-way only and if you turn
around you will face a lot of
trouble

+ at some point jail time
because you should not be
driving (anymore) 🌟🌀



By the way, another tragedy
would happen on the RECEIVE
(RXD) lane, both devices would
listen...

But none of them would ever
receive anything.

Sad little ears 🧠❌



You should now understand a little better why we need(ed) a cross-over cable to begin with back when no hardware was sitting in the middle between the two computers



LOOKING
FOR MORE
CYBER
CONTENT?





THE PURPLE TEAM COACH

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