



Kunnskap for en bedre verden

Teknostart Day 2

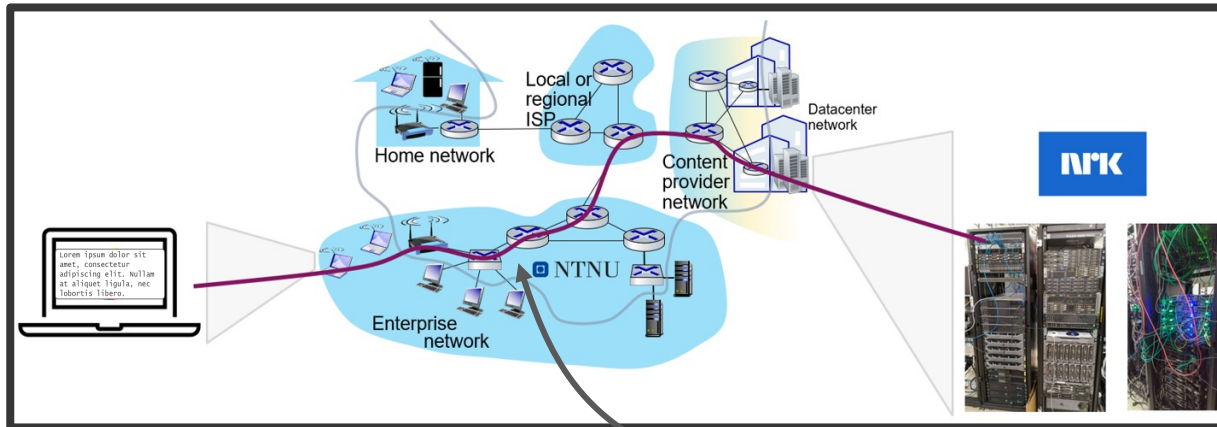
Pakketap



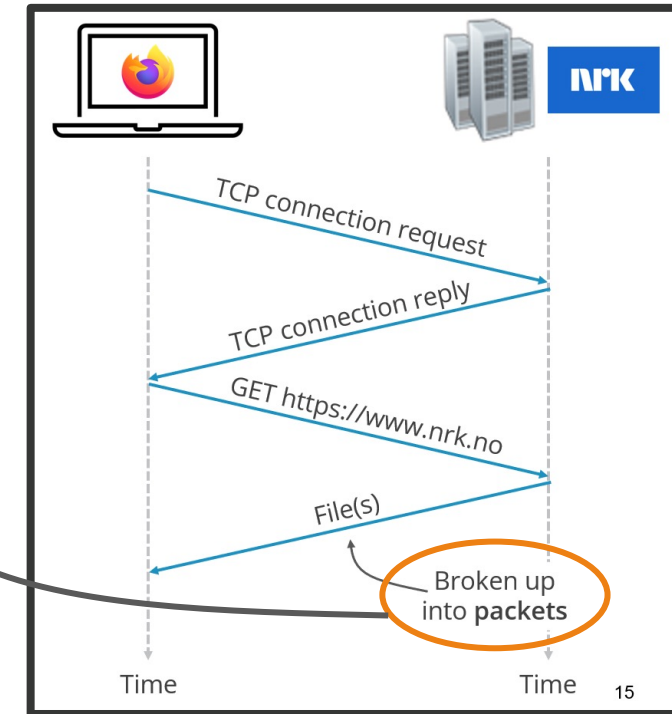
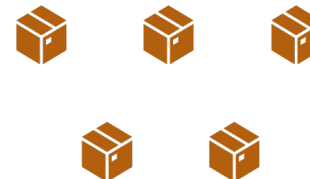
Stanislav (Stas) Lange

Packet-based Communication

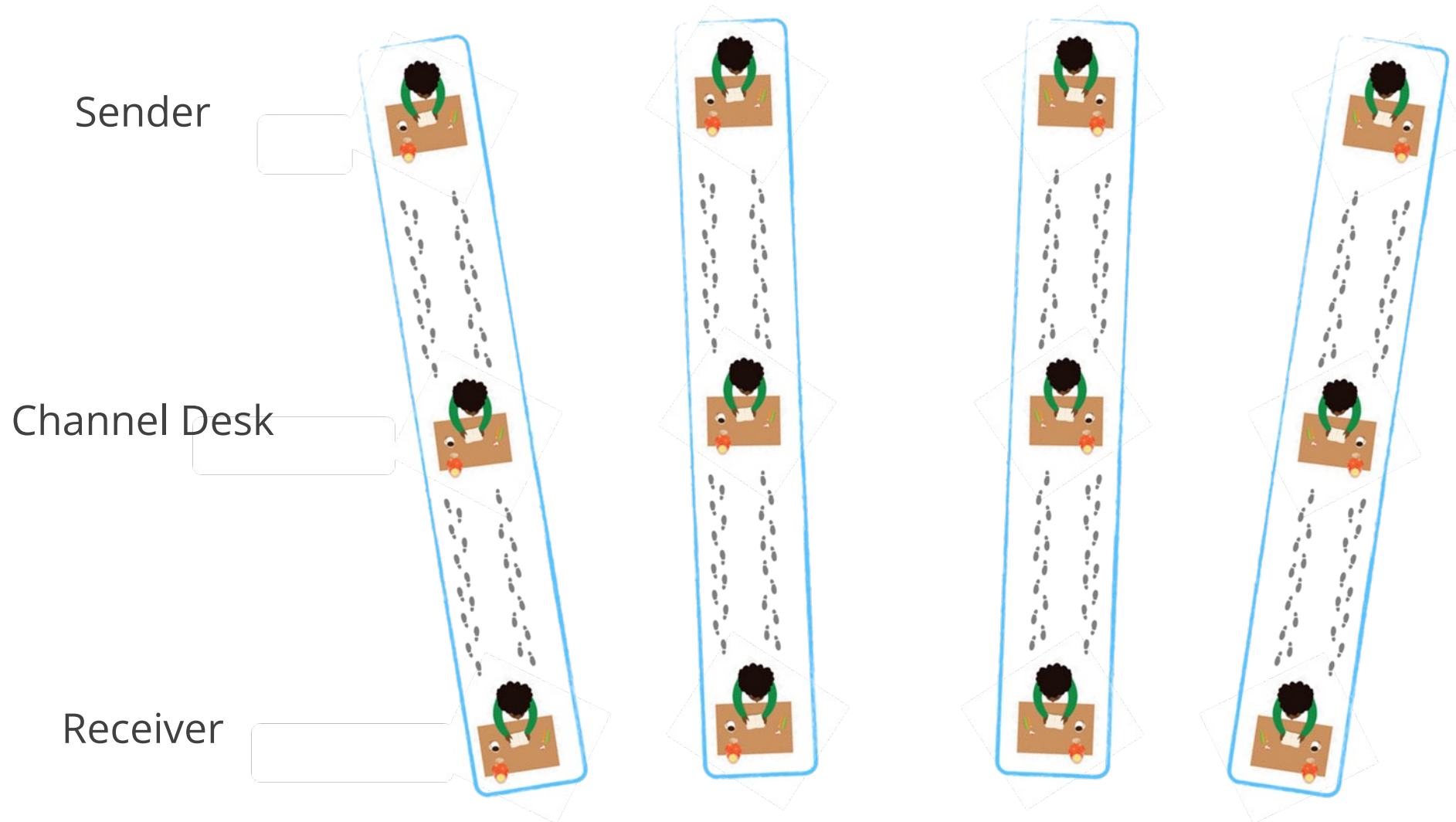
➔ Goal for today: design a **protocol** to **reliably** transmit a message over an **unreliable channel**



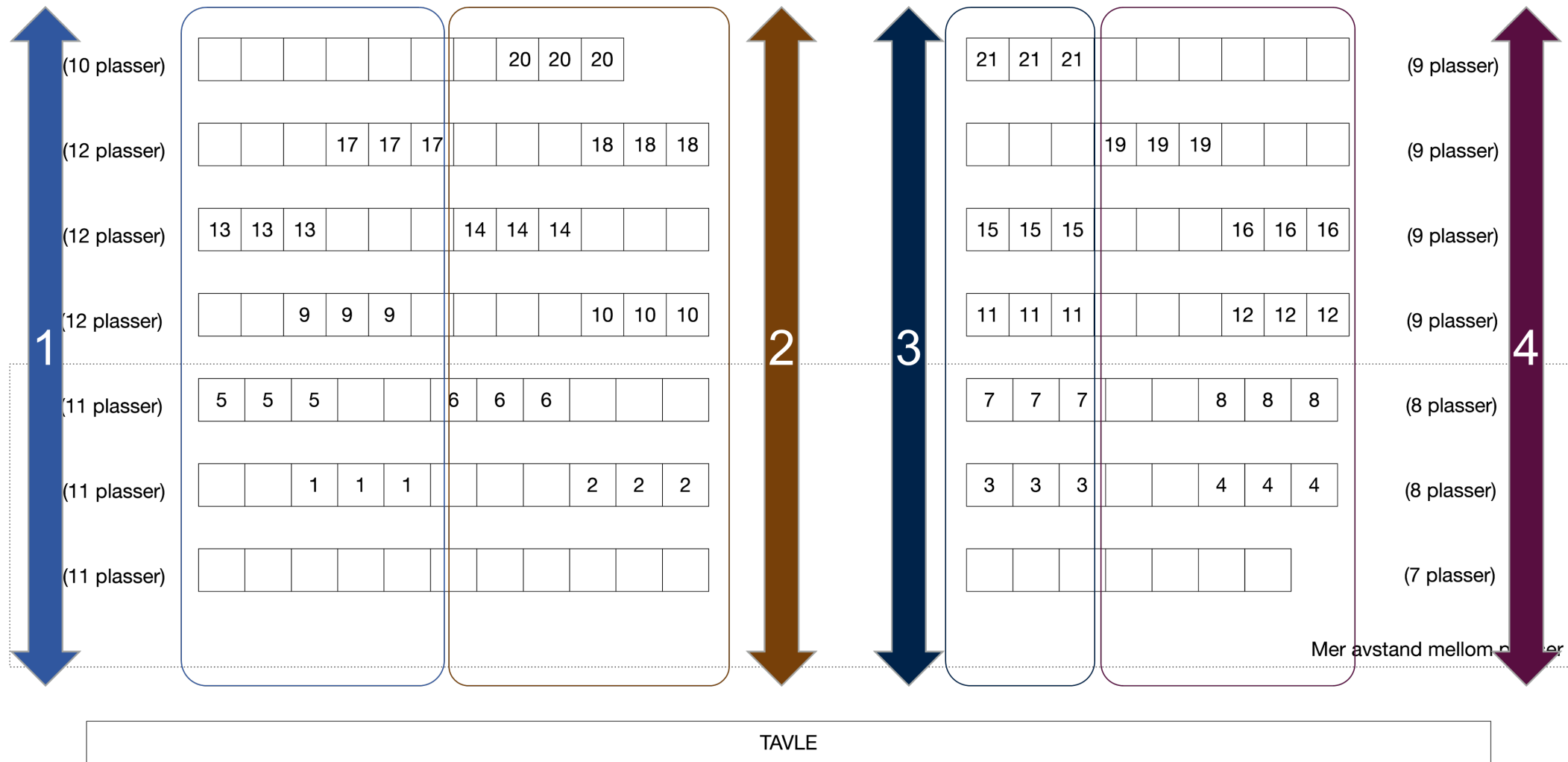
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Setup



Groups

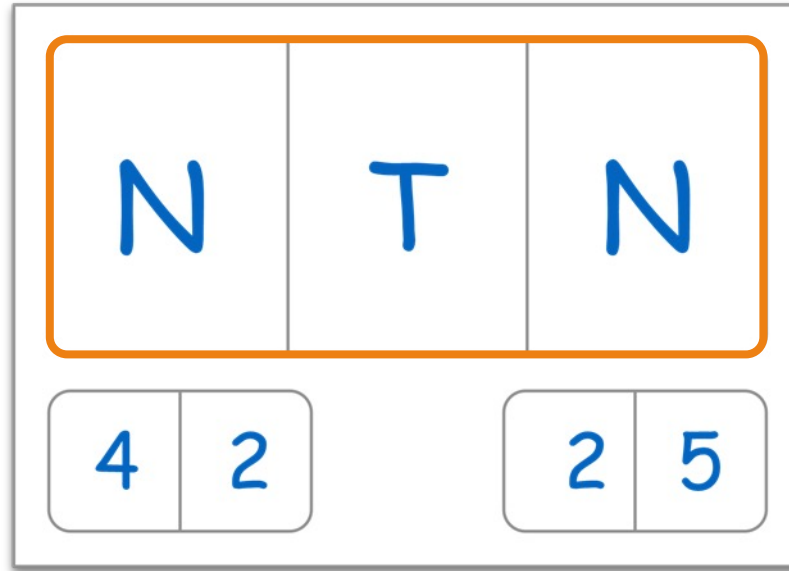


Messages

- Allowed characters: a..z, æ, ø, å, .



Rules – Packet Cards



- One character per field
- Letters from the message are only allowed in the **payload fields** at the top

Test Run 1

05:00



Rules – Transmission Channel



Happy Packet: Nothing happens to the packet, the player can continue. (38 %)



Lost Packet: The assistant simply wipes out all characters on the package card. The player can then return to the origin, and get a new payload. (19 %)



Corrupt Packet: The assistant wipes out one character and exchanges it with another. It's important that they have a matching pen, and they should imitate the original handwriting. (19 %)



Slow Packet: The packet card stays unaltered, but the player needs to wait besides the channel desk for about 30 seconds. (Players just count slowly to 30.) After the time is up, the player proceeds by *drawing another card*. This card can again be a slow packet, which means that a player may wait more than once. (25 %)

Rules – Preparation & Transmission

- Preparation
 - Discuss with your team, make a plan
 - Hint: you can send packets both ways
- Transmission
 - Complete silence during the transmission
 - No cheating 😊 follow the rules, result must be reproducible

Test Run 2

05:00

Planning Phase

Design Your Protocol

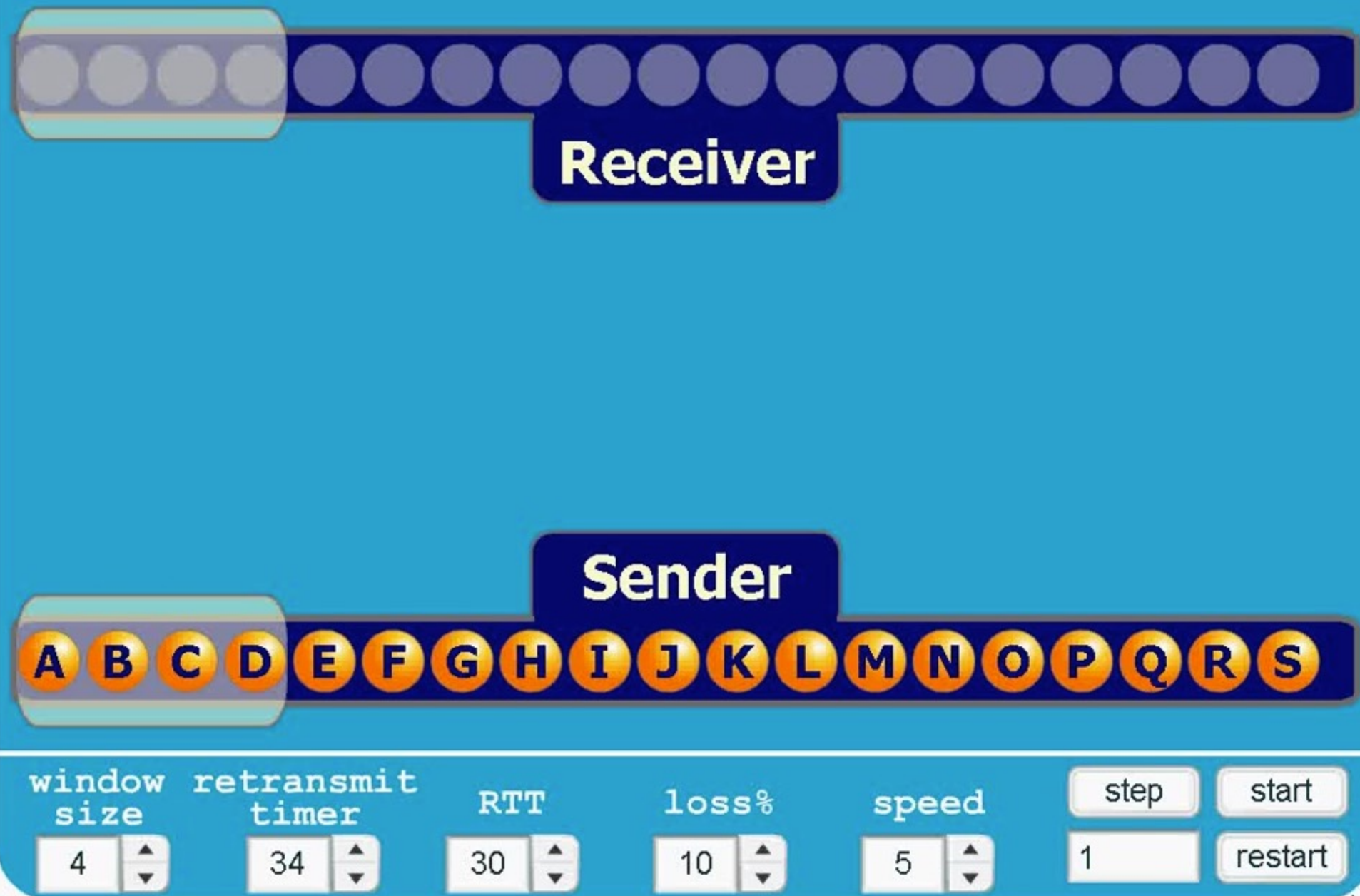
20:00

Run 3

Deploy Your Protocol

15:00

TCP SLIDING WINDOW



Utsjekk

Hva?

- Uformell kort avslutning etter dagens siste arbeidsøkt

Hvordan?

- Si kort noe om hvordan du har opplevd dagen
- Feks. hva synes du var interessant / gøy / kjedelig? Evt. hva skal du gjøre etterpå?
- 2-3 min. per person