

- From lecture #1, we wanted to express information as bits
- We understand the concept of bits ... but how do we physically realize them?

- So here is one idea:
- Let's express bits through signals
- Specifically:
  - To represent bit = 1 ... let signal be HIGH
  - To represent bit = 0 ... let signal be LOW

- So, now let's transmit the bit sequence: **1 0 1 1 0 1 0 1 1 1**



- Now suppose someone sends you this signal.
- What bit sequence is she communicating to you?



**Communicated bit sequence =**