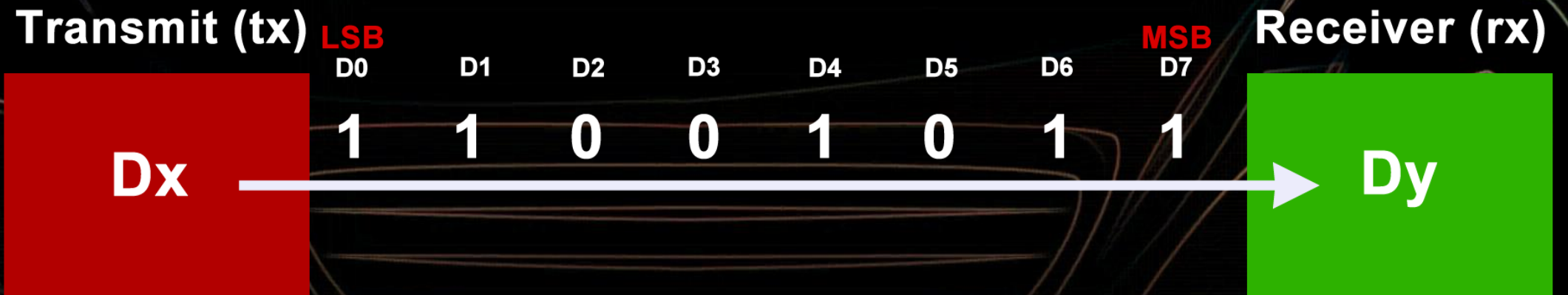# Automobile Hacking and Security

Find vulnerabilities loopholes and security threats in your own vehicle

1.0v

Serial Communication Protocol

Serial Communication Example

Serial Communication Protocol

1. **Synchronous**
2. **Asynchronous**

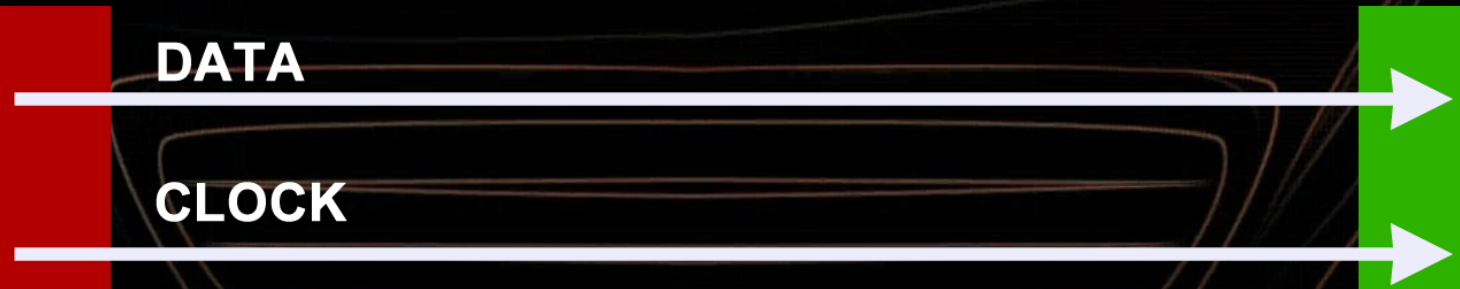# Synchronous Serial Communication

Transmit (tx)
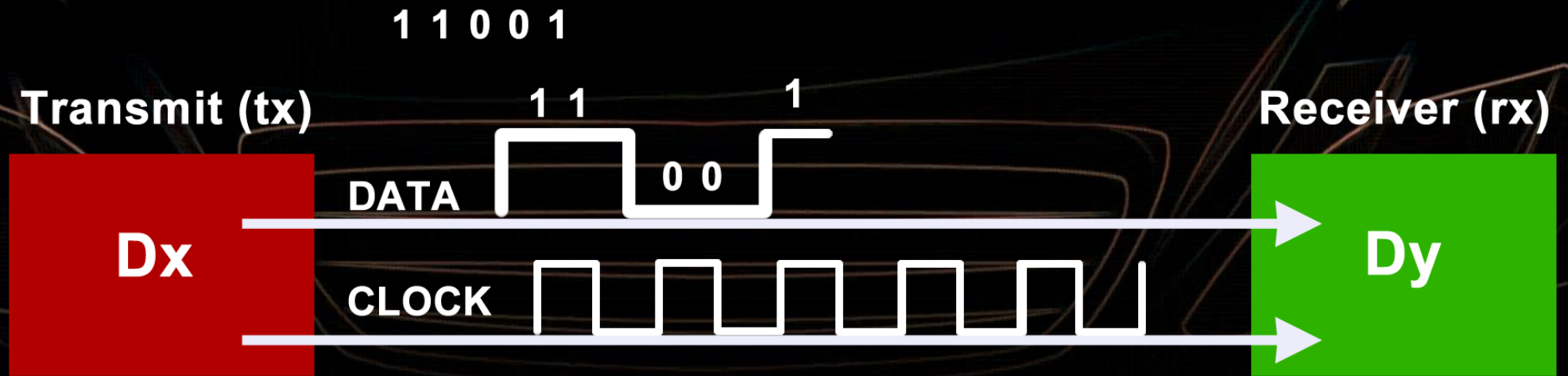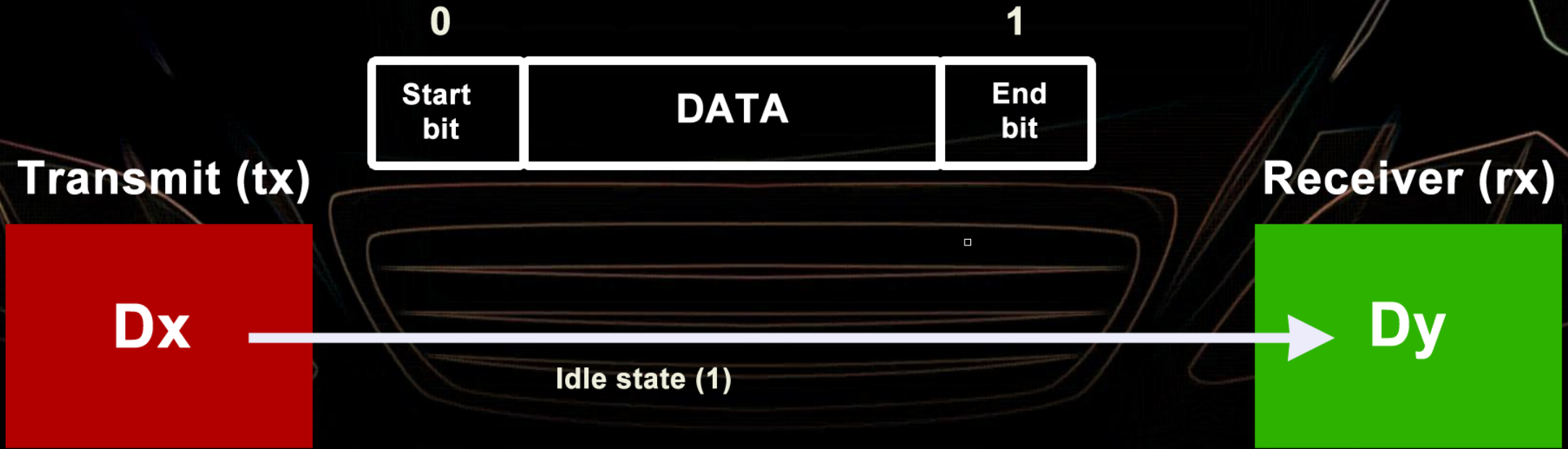
Dx

DATA

CLOCK

Receiver (rx)

Dy

Synchronous Serial Communication

Synchronous Serial Communication

Synchronous Serial Communication

Asynchronous Serial Communication

Asynchronous Serial Communication

Asynchronous Serial Communication

Serial Communication Examples

CAN, ETHERNET, I2C, SPI, RS232, USB, and SATA