Keeping It Private: Blocking RFID Readers from Reading your ID Card

Abstract

If you've ever watched an adult pay for something by simply touching their credit card to a machine at a store, or you've done the same with a bus pass, you've seen an RFID tag in action. An RFID (Radio-Frequency IDentification) tag allows a card to be read by a computer from a short distance away. This is very convenient, but it also allows criminals to steal information about you. For instance, on the subway or the bus, someone standing next to you can use an RFID reader to access the data on that card. After learning what materials can be used to block an RFID reader, you can design a solution to protect your cards and your passport.

Objective

To demonstrate that simple materials can be used to protect an RFID tag or card from being read by an RFID reader.