



Fun with RFID and the Adafruit NFC Arduino Shield

David Huerta - Desert Code Camp 2012.1

Obligatory Bio

- HeatSync Labs elder from before it was cool
- NEW YORK NEW YORK NEW YORK
NEW YORK NEW YORK NEW YORK
- OH's by @huertanix
- Also made loldialer and
isthelightrailfurbied.com

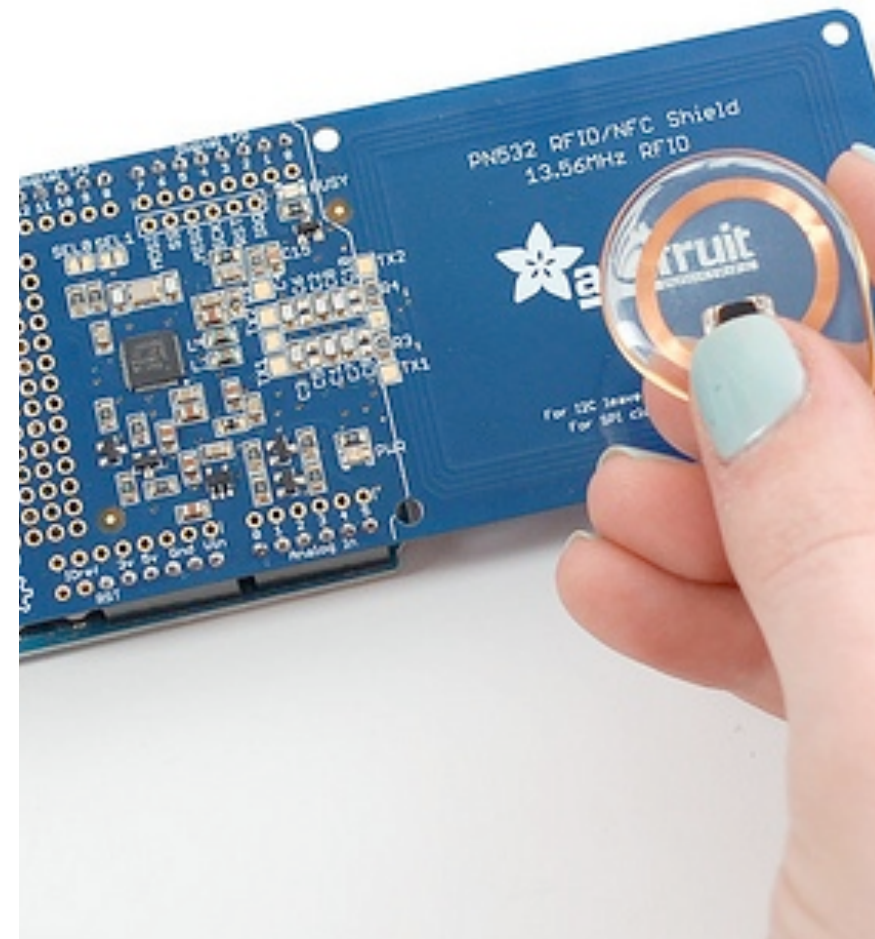
What is NFC?

- Induction-powered
- 13.56 MHz
- RFID > NFC > MIFARE > MIFARE CLASSIC > WE NEED TO GO DEEPER
- Supported by some high-end Android and Nokia phones



Adafruit NFC Shield

- PN532 chipset
- NFC/RFID Type I thru 4 tag supported
- 4" range (max for 13.56 MHz)
- Works with most Arduino shields, 'cept Leonardo, Due and old Megs







<https://dangerousthings.com/shop/13-56mhz-s50-glass-nfc/>

Supported NDEF Types

- HTTP
- TEL
- MAILTO
- SIP
- FILE
- But wait, there's more: https://github.com/adafruit/Adafruit_NFCShield_I2C/blob/master/Adafruit_NFCShield_I2C.h

SAMSUNG

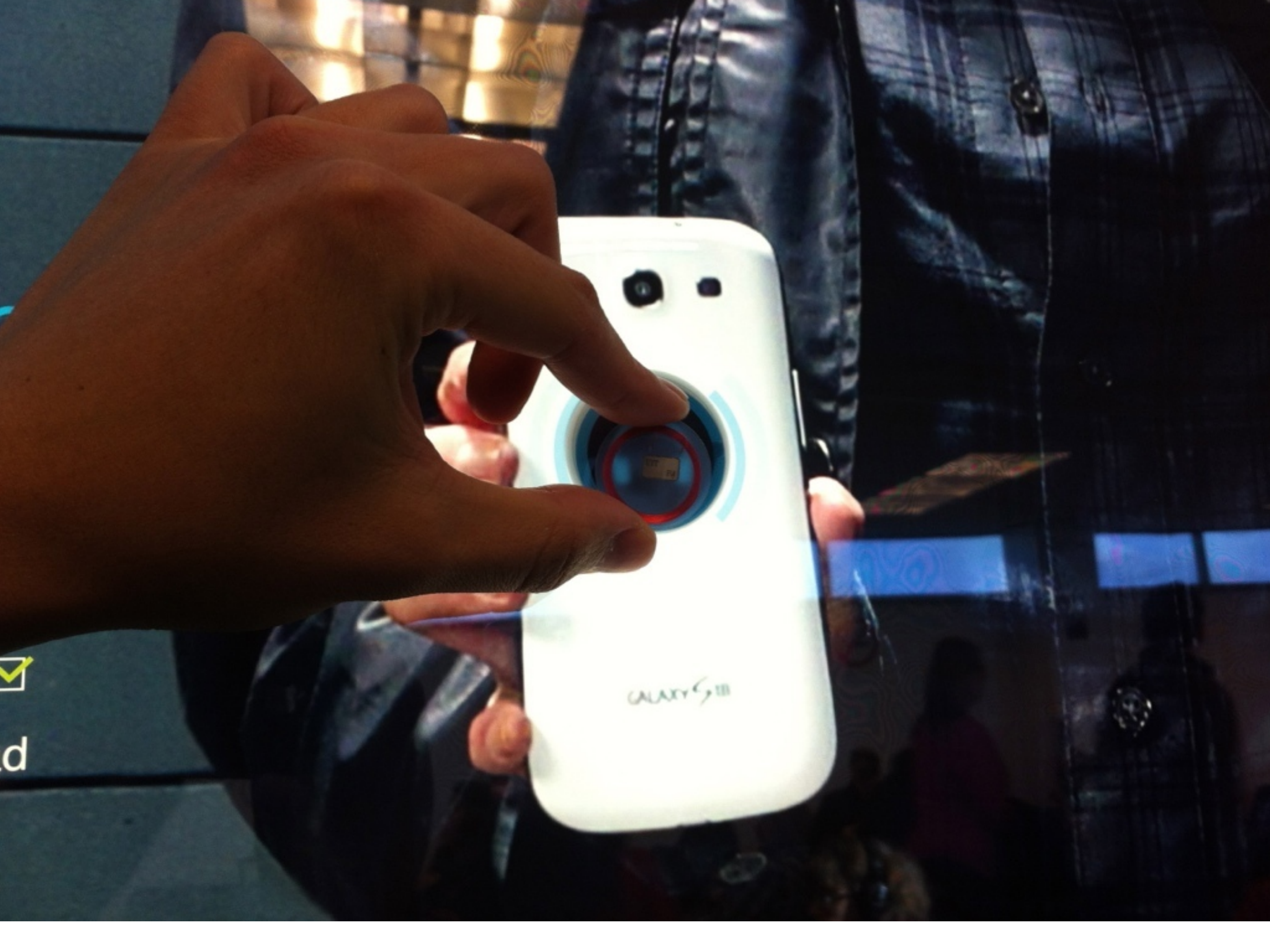
I have
a song
for you.

Exclusive music
every week

- ① Unlock your Galaxy S III
- ② Go to ● Settings > More Settings > NFC
- ③ Hold your GS III to the ● to download



Hold the back of your Galaxy S III
to mine and get a free song.



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