NFC for Debugging

It's magic. You need it.

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Why NFC?

- Debug tools are nice, but they can clutter up your application: Launcher icons, menus, etc.
- Too much clicking. More waving.
- Trigger actions in the background without ever leaving your app.

What can you do?

- Anything an application can do, for example:
  - Launch an activity
  - Launch an activity with extras
  - Display a custom launcher
  - Clear or initialize test data
- Do things in the background
  - Turn Wifi off while application is syncing
  - Trigger application is great for general system actions

How?

- Create an activity or service to handle your debug URI scheme (dgb://my.identifier/*)

```
<activity
    android:name=".NFCDebug"
    android:label="NFC Debug" >
    <intent-filter android:label="@string/app_name">
        <action android:name="android.nfc.action.NDEF_DISCOVERED" />
        <data android:scheme="dbg"
            android:host="net.jpuderer.example.hellonfcdebug"/>
        <category android:name="android.intent.category.DEFAULT" />
    </intent-filter>
</activity>
```

How?

● Parse the URI into your NFC debug activity, and do whatever your want with the path and parameters
● Create NFC tags containing NDEF records that contain URIs to trigger your debug actions

```
dbg://net.jpuderer.example.hellonfcdebug?dbgtool
dbg://net.jpuderer.example.hellonfcdebug?dbgmenu
dbg://net.jpuderer.example.hellonfcdebug?dbgset&counter=12
```

Resources

- Applications
  - TagWriter (from NXP Semi)
  - TagInfo (from NXP Semi)
  - Trigger (from TagStand)
- NFC Tags
  - http://www.tagstand.com/