SETTING UP B2G BUILD ENVIRONMENT

ABSTRACT. Condensed form of the full documentation given at:
    https://developer.mozilla.org/en/Mozilla/Boot_to_Gecko/Setting_Up_Boot_to_Gecko_Build_Environment
    In short, the set up has a list of build dependencies, heimdall (for rooting and flashing galaxy S2
specifically), adb (the android debugging brindge - one time requirement), configuration of USB (in
order to "let adb talk to the device")

1. HEIMDALL

Version 1.3.1 is recommended, not 1.3.2.

Building requires the dependencies libusb-1.0-0 and libusb-1.0-0-dev to be installed.

```
git clone https://github.com/Benjamin-Dobell/Heimdall.git
git checkout v1.3.1
cd libpit
./configure
make
cd ../heimdall
./configure
make
sudo make install
```

2. BUILD DEPENDENCIES

```
sudo apt-get install build-dep firefox
sudo apt-get install git mercurial libasound2-dev libcurl4-openssl-dev libnotify-dev \
                     libxt-dev libiw-dev mesa-common-dev autoconf2.13
sudo apt-get install gcc-multilib g++-multilib bison flex gperf libncurses5-dev libidl-dev \
                     autoconf2.13 ccache libx11-dev libgl1-mesa-dev yasm
# Only for 64 bit systems:
sudo apt-get install ia32-libs ia32-libs-dev lib32z-dev lib32ncurses5-dev lib32gomp1 \
                     lib32ncursesw5-dev libncurses5-dev lib32readline-gplv2-dev
```

Type "Y" when prompted for any extra dependencies.

3. ANDROID SDK (FOR ADB & FASTBOOT)

Download the SDK starter package: http://dl.google.com/android/android-sdk_r18-linux.tgz

Install the starter package. While installing, only "Android SDK Platform tools" is required. The rest can be unchecked. Install X Packages, when clicked, should say only 1 package. The rest are not needed.

```
vim ~/.bashrc
```

Add the following at the end:

```
PATH=$PATH:/home/mozilla/android-sdk-linux/platform-tools
# After making gonk for the first time, this needs to be changed to:
# PATH=$PATH:/home/mozilla/gits/B2G/glue/gonk/out/host/linux-x86/bin
export PATH
```

4. Configuring USB

Set up the android rules file:

```
sudo nano /etc/udev/rules.d/51-android.rules
```

Add:

```
SUBSYSTEM=="usb", ATTR{idVendor}=="04e8", MODE="0666", GROUP="plugdev"
```

Refer https://developer.mozilla.org/en/Mozilla/Boot_to_Gecko/Setting_Up_Boot_to_Gecko_Build_Environment for more details.

```
sudo chmod a+r /etc/udev/rules.d/51-android.rules
```

5. Cloning the Repo

```
git clone https://github.com/andreasgal/B2G.git
```