Step 1 : Install nodejs and npm  
  
Cordova and PhoneGap are usually installed using node packages. So if you don't have it yet, you need to install both nodejs and npm (node package manager).

*$ sudo apt-get install nodejs npm*

*npm -version*

*nodejs -v*

*--- if NOT work-- add PPA-------*

*$ sudo apt-get install python-software-properties python g++ make  
$ sudo add-apt-repository ppa:chris-lea/node.js  
$ sudo apt-get update*

On recent versions of nodejs, the alias node is not created. And if you try to use it right now, the system will tell you to install the package called node. So we will make that alias ourselves.  
 *$ sudo ln -s /usr/bin/nodejs /usr/bin/node*

*node -v*

Step 2 : Install ant  
  
That is probably the hardest thing you will have to do today.  
  
*$ sudo apt-get install ant*

*ant -version*

Step 3 : Install Cordova  
  
Now that npm and node are installed, installing Cordova and PhoneGap is really easy.  
  
*$ sudo npm install -g cordova*

*cordova -version*

*cordova -v*

**ANDROID**

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# download android sdk  
wget http://dl.google.com/android/android-sdk\_r24.2-linux.tgz  
  
tar -xvf android-sdk\_r24.2-linux.tgz  
cd android-sdk-linux/tools  
  
# install all sdk packages  
./android update sdk --no-ui

*gksu gedit /etc/bash.bashrc ---File to set path (ALL user)*

*Or*

*Ctrl + H -> show hidden files*

*Trl + L -> see URL*

*bash.bashrc also available in HOME folder*

export PATH=${PATH}:$HOME/sdk/android-sdk-linux/platform-tools:$HOME/sdk/android-sdk-linux/tools:$HOME/sdk/android-sdk-linux/build-tools/22.0.1/

Or

export ANDROID\_HOME=$HOME/android-sdk-linux

export PATH=${PATH}:$HOME/android-sdk-linux/platform-tools:$HOME/android-sdk-linux/tools

# adb  
sudo apt-get install libc6:i386 libstdc++6:i386  
# aapt  
sudo apt-get install zlib1g:i386

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*TO RUN APP DIRECTLY INTO DEVICES*

*-Connect device in USB - dev options - usb debugging ON*

*Test device is connected*

*adb devices*

*adb devices -l*

*Cordova run android - install app in PHONE*

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