[GUIDE] How to build AICP for the HTC One with OS X 10.8.X

This is a guide to build Android Ice Cold Project (Android 4.3) for the HTC One. This guide is for OS X Mountain Lion (10.8.X).

Pre Requirements:

1) go to App Store on your OS X and Download **Xcode 4**. Once that is installed, open Xcode and go to preferences. There you find a tab "DOWNLOADS", open it and there you can find "**Command line tools"** and next to it click INSTALL. It will take a few minutes to download and install
2) Make sure you have the **android-sdk** downloaded and setup adb and fastboot, so they work. It is recommended to place the android-sdk to /usr/local/

Initializing the build environment

First we need to set up our OS X to be able to build Android. This needs some extra things compared to for example, building in Linux, but the main stuff is pretty much the same. So let's get started then, shall we?

Open up Terminal and type

Code:

```
java
```

If you don't have **java** installed you will get a prompt to install it.

Next we will install **homebrew** (you can also use **macports** if you like)
Code:

```
ruby <(curl -fsSk https://raw.github.com/mxcl/homebrew/go)
```

Now make sure android-sdk and homebrew are in $PATH

Code:

```
touch ~/.bash_profile && echo "PATH=/usr/local/bin:/usr/local/sbin:$PATH:/usr/local/
android-sdk/tools:/usr/local/android-sdk/platform-tools" >> ~/.bash_profile
```


Now run this and see if you need to update anything.

Code:

```
brew doctor
```

If you do (and you probably will once a day) type:
Code:

```
brew update
```

Now we need to get our **dev packages**
Code:

```
brew install git coreutils findutils gnu-sed gnupg pngcrush repo
```

Once that is done, run
Code:

```
 brew outdated
```

if it shows anything, run
Code:

```
 brew upgrade
```

Now run this the correct a few symlinks [Not sure if these are needed anymore]:

Code:

```
ln -s /usr/local/bin/gfind /usr/local/bin/find && ln -s /usr/local/bin/gsed /usr/local/bin/sed
```

Now to create our case sensitive image for our AICP work [NOTE: the 60g can be changed to anything. It only takes up what it needs but I used 60GB]:
Code:

```
hdiutil create -type SPARSE -fs "Case-sensitive Journaled HFS+" -size 60g -volname "android" -attach ~/Desktop/Android
```

Now to create our working directory
Code:

```
cd /Volumes/Android && mkdir aicp && cd aicp
```

Getting the source

Now to initialize the **git** and to download it
Code:

```
repo init -u https://github.com/AICP/platform_manifest.git -b jb-mr2 -g all,-notdefault,m7,htc
```

Download the sources:
Code:

```
repo sync
```

After the sync is finished You can build like this
Code:

```
. build/envsetup.sh

time brunch aicp_m7ul-userdebug
```

Remember to `make clobber` every now and then!