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# **xiaer Documentation**

***Release 1.0***

**CheJian**

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This is a planet for my flowers and dogs



# CHAPTER 1

hello-world







## 2.1 grocery

### 2.1.1 Android

**android-basic**

**build-message**

```
prebuild:build/core/version_defaults.mk PLATFORM_SDK_VERSION := 27
```

```
build: out/target/product/clover/system/build.prop
```

### 2.1.2 Android-Audio

**audio**

<https://blog.csdn.net/xujianqun/article/details/6660858>



### 3.1 Environment-conf

#### 3.1.1 install adb fastboot

```
sudo add-apt-repository ppa:phablet-team/tools
sudo apt-get update
sudo apt-get install android-tools-adb
sudo apt-get install android-tools-fastboot
```

#### 3.1.2 install pip

```
sudo apt-get install python-pip
pipsudo pip install -U pip
pip http://mirrors.aliyun.com/pypi/simple/
eg.sphinx pip install sphinx -i http://mirrors.aliyun.com/pypi/simple/
vim ~/.pip/pip.conf

[global]
index-url = http://mirrors.aliyun.com/pypi/simple/

[install]
trusted-host = http://mirrors.aliyun.com
```

### 3.1.3 install java gcc g++

```
sudo add-apt-repository ppa:unbutu-toolchain-r/test
sudo apt-get update
sudo update-alternatives --config java
sudo update-alternatives --config javac
java -version
sudo apt-get install gcc-4.9
sudo apt-get install g++-4.9
sudo apt-get install gcc-4.9-multilib
sudo apt-get install g++-4.9-multilib
sudo apt-get install gcc-4.9-doc
( --)
sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-4.9 20
sudo update-alternatives --install /usr/bin/g++ g++ /usr/bin/g++-4.9 20
sudo update-alternatives --config gcc
sudo update-alternatives --config g++
gcc --version
g++ --version (g++-4.6)
```

#### 4.1 Aarm

The script can help us repo Android code and make by lunch method or appointed shell script



### 5.1 Android audio

#### 5.1.1 MIC

mic

MIC :<https://blog.csdn.net/xujianqun/article/details/6661947>

### **5.1.2 smart-pa**

### **5.1.3 I2c**

### **5.1.4 I2S**

## **5.2**

### **5.2.1 Control**

### **5.2.2 data**

## **5.3 Android kernel audio driver**

### **5.3.1 ALSA**

### **5.3.2 ASoc**

### **5.3.3 adsp**

dsp driver note

<https://blog.csdn.net/whshiyun/article/details/81534494#commentBox>



## CHAPTER 6

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### Indices and tables

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- `genindex`
- `search`