

# Android NDK 安装

## Resource

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## Installation

1. 创建目录 `/Users/2ndboy/android-ndk-r8b`
2. 在 `.bash_profile` 中添加 NDK 路径
  - `export ANDROID_NDK_ROOT=/Users/2ndboy/android-ndk-r8b`
3. 在 `.bash_profile` 中添加 `ndk-build` 命令
  - `export PATH=${PATH}:/Users/2ndboy/android-ndk-r8b`

## Sample

Android 包名 `com.2ndboy.testndk`

MainActivity.java 示例

```
public class MainActivity extends Activity
{
    public native int test( int a, int b );

    static
    {
        System.loadLibrary( "testndk" );
    }

    @Override
    public void onCreate( Bundle savedInstanceState )
    {
        super.onCreate( savedInstanceState );
        setContentView( R.layout.activity_main );

        Log.e( "NDK", String.valueOf( test( 2, 5 ) ) );
    }
}
```

jni

Android.mk

```
LOCAL_PATH := $(call my-dir)
include $(CLEAR_VARS)
LOCAL_MODULE := testndk
LOCAL_SRC_FILES := test.c
LOCAL_LDLIBS := -llog
include $(BUILD_SHARED_LIBRARY)
```

- LOCAL\_PATH -

test.c

```
#include <jni.h>
#include <android/log.h>
```

```
JNIEXPORT jint JNICALL
Java_com_2ndboy_testndk_MainActivity_test(
    JNIEnv *env,
    jobject this,
    jint a,
    jint b )
{
    return( a + b );
}
```

Java\_com\_2ndboy\_testndk\_MainActivity\_test

- Java -
- com\_2ndboy\_testndk - package name
- MainActivity - class name
- test - function name

jni ndk-build .so.so libs/armeabi

Java Language Type	Native Type	Description
boolean	jboolean	unsigned 8 bits
byte	jbyte	signed 8 bits
char	jchar	unsigned 16 bits
short	jshort	signed 16 bits
int	jint	signed 32 bits
long	jlong	signed 64 bits
float	jfloat	32 bits
double	jdouble	64 bits

