Android SDK安装及使用

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下载Android测试工具包 :adt-bundle-windows

链接: <https://www.androiddevtools.cn>

配置环境变量

path add 路径(D:\Programs\adt-bundle-windows\sdk\platform-tools)到adb.exe的目录

cmd adb -version 正常显示版本就成功了.

第一种:无线连接

adb 连接手机,开发者调试模式开启后,将电脑和手机连接至同一WiFi下,

然后电脑先通过数据线连接手机,通过命令

adb tcpip 5555 修改端口号

在手机上找到手机的ip地址通过命令

adb connect 192.168.2.3 通过无线连接

adb devices 可以查看连接至电脑的设备列表

第二种,有线连接

打开手机的开发者调试模式,通过数据线连接至电脑,

adb devices 可以查看连接至电脑的设备列表

常用adb命令

|  |  |
| --- | --- |
| 命令 | 作用 |
| adb install 包名 | 安装 |
| adb uninstall 包名 | 卸载 |
| adb push | 将电脑上的文件推送到手机上 |
| adb pull | 将手机上的文件拉取到电脑上 |
| adb shell | 进入手机shell环境 |
| adb logcat | //格式1：打印默认日志数据  adb logcat  //格式2：需要打印日志详细时间的简单数据  adb logcat -v time  //格式3：需要打印级别为Error的信息  adb logcat \*:E  //格式4：需要打印时间和级别是Error的信息  adb logcat -v time \*:E  //格式5：将日志保存到电脑固定的位置，比如D:\log.txt  adb logcat -v time >D:\log.txt |
| adb shell monkey | adb -s 指定设备 shell monkey  第一个-s指定设备，如果只连接了一台设备，可不用该参数。  -p <apk包名>只允许系统启动指定的app，如果不指定，将允许系统启动设备中的所有app，也可指定多个包。  --throttle <毫秒数> 指定用户操作（事件）间的时延。  --ignore-crashes 指定当应用程序崩溃时，Monkey依然发送事件，直到事件计数完成。  --ignore-timeouts 当应用程序发生ANR错误时，Monkey依然会发送事件，直到事件计数完成。  第2个-s，用于指定伪随机数生成器的seed值，如果seed相同，则两次Monkey测试所产生的事件序列也相同的。  -v 用于指定反馈信息级别，总共分为level 0、level 1、level 2三个级别，级别越高，输出的日志越详细。  日志级别 Level0 示例 adb shellmonkey -p com.amaker.mp –v 100  说明 缺省值，仅提供启动提示、测试完成和最终结果等少量信息  日志级别 Level 1 示例 adb shellmonkey -p com.amaker.mp –v -v 100  说明 提供较为详细的日志，包括每个发送到Activity的事件信息  日志级别 Level 2 示例 adb shellmonkey -p com.amaker.mp –v -v –v 100  说明 最详细的日志，包括了测试中选中/未选中的Activity信息  最后的数字（这里是500）：表示Monkey程序模拟500次随机用户操作事件。  >输出测试结果到D:\monkeylog.txt |

例子：

//这条命令相当于按了设备的Backkey键

adb shell input keyevent 4

 //可以解锁屏幕

adb shell input keyevent  82

//在屏幕上做划屏操作，前四个数为坐标点，后面是滑动的时间（单位毫秒）

adb shell input swipe 50 250 250 250 500

//在屏幕上点击坐标点x=50  y=250的位置。

adb shell input tap 50 250

//输入字符abc

adb shell input text abc

每个数字与keycode对应表如下：

0 -->  "KEYCODE\_UNKNOWN"

1 -->  "KEYCODE\_MENU"

2 -->  "KEYCODE\_SOFT\_RIGHT"

3 -->  "KEYCODE\_HOME"

4 -->  "KEYCODE\_BACK"

5 -->  "KEYCODE\_CALL"

6 -->  "KEYCODE\_ENDCALL"

7 -->  "KEYCODE\_0"

8 -->  "KEYCODE\_1"

9 -->  "KEYCODE\_2"

10 -->  "KEYCODE\_3"

11 -->  "KEYCODE\_4"

12 -->  "KEYCODE\_5"

13 -->  "KEYCODE\_6"

14 -->  "KEYCODE\_7"

15 -->  "KEYCODE\_8"

16 -->  "KEYCODE\_9"

17 -->  "KEYCODE\_STAR"

18 -->  "KEYCODE\_POUND"

19 -->  "KEYCODE\_DPAD\_UP"

20 -->  "KEYCODE\_DPAD\_DOWN"

21 -->  "KEYCODE\_DPAD\_LEFT"

22 -->  "KEYCODE\_DPAD\_RIGHT"

23 -->  "KEYCODE\_DPAD\_CENTER"

24 -->  "KEYCODE\_VOLUME\_UP"

25 -->  "KEYCODE\_VOLUME\_DOWN"

26 -->  "KEYCODE\_POWER"

27 -->  "KEYCODE\_CAMERA"

28 -->  "KEYCODE\_CLEAR"

29 -->  "KEYCODE\_A"

30 -->  "KEYCODE\_B"

31 -->  "KEYCODE\_C"

32 -->  "KEYCODE\_D"

33 -->  "KEYCODE\_E"

34 -->  "KEYCODE\_F"

35 -->  "KEYCODE\_G"

36 -->  "KEYCODE\_H"

37 -->  "KEYCODE\_I"

38 -->  "KEYCODE\_J"

39 -->  "KEYCODE\_K"

40 -->  "KEYCODE\_L"

41 -->  "KEYCODE\_M"

42 -->  "KEYCODE\_N"

43 -->  "KEYCODE\_O"

44 -->  "KEYCODE\_P"

45 -->  "KEYCODE\_Q"

46 -->  "KEYCODE\_R"

47 -->  "KEYCODE\_S"

48 -->  "KEYCODE\_T"

49 -->  "KEYCODE\_U"

50 -->  "KEYCODE\_V"

51 -->  "KEYCODE\_W"

52 -->  "KEYCODE\_X"

53 -->  "KEYCODE\_Y"

54 -->  "KEYCODE\_Z"

55 -->  "KEYCODE\_COMMA"

56 -->  "KEYCODE\_PERIOD"

57 -->  "KEYCODE\_ALT\_LEFT"

58 -->  "KEYCODE\_ALT\_RIGHT"

59 -->  "KEYCODE\_SHIFT\_LEFT"

60 -->  "KEYCODE\_SHIFT\_RIGHT"

61 -->  "KEYCODE\_TAB"

62 -->  "KEYCODE\_SPACE"

63 -->  "KEYCODE\_SYM"

64 -->  "KEYCODE\_EXPLORER"

65 -->  "KEYCODE\_ENVELOPE"

66 -->  "KEYCODE\_ENTER"

67 -->  "KEYCODE\_DEL"

68 -->  "KEYCODE\_GRAVE"

69 -->  "KEYCODE\_MINUS"

70 -->  "KEYCODE\_EQUALS"

71 -->  "KEYCODE\_LEFT\_BRACKET"

72 -->  "KEYCODE\_RIGHT\_BRACKET"

73 -->  "KEYCODE\_BACKSLASH"

74 -->  "KEYCODE\_SEMICOLON"

75 -->  "KEYCODE\_APOSTROPHE"

76 -->  "KEYCODE\_SLASH"

77 -->  "KEYCODE\_AT"

78 -->  "KEYCODE\_NUM"

79 -->  "KEYCODE\_HEADSETHOOK"

80 -->  "KEYCODE\_FOCUS"

81 -->  "KEYCODE\_PLUS"

82 -->  "KEYCODE\_MENU"

83 -->  "KEYCODE\_NOTIFICATION"

84 -->  "KEYCODE\_SEARCH"

85 -->  "TAG\_LAST\_KEYCODE"

KEYCODE列表

电话键

|  |  |  |
| --- | --- | --- |
| KEYCODE\_CALL | 拨号键 | 5 |
| KEYCODE\_ENDCALL | 挂机键 | 6 |
| KEYCODE\_HOME | 按键Home | 3 |
| KEYCODE\_MENU | 菜单键 | 82 |
| KEYCODE\_BACK | 返回键 | 4 |
| KEYCODE\_SEARCH | 搜索键 | 84 |
| KEYCODE\_CAMERA | 拍照键 | 27 |
| KEYCODE\_FOCUS | 拍照对焦键 | 80 |
| KEYCODE\_POWER | 电源键 | 26 |
| KEYCODE\_NOTIFICATION | 通知键 | 83 |
| KEYCODE\_MUTE | 话筒静音键 | 91 |
| KEYCODE\_VOLUME\_MUTE | 扬声器静音键 | 164 |
| KEYCODE\_VOLUME\_UP | 音量增加键 | 24 |
| KEYCODE\_VOLUME\_DOWN | 音量减小键 | 25 |

控制键

|  |  |  |
| --- | --- | --- |
| KEYCODE\_ENTER | 回车键 | 66 |
| KEYCODE\_ESCAPE | ESC键 | 111 |
| KEYCODE\_DPAD\_CENTER | 导航键 确定键 | 23 |
| KEYCODE\_DPAD\_UP | 导航键 向上 | 19 |
| KEYCODE\_DPAD\_DOWN | 导航键 向下 | 20 |
| KEYCODE\_DPAD\_LEFT | 导航键 向左 | 21 |
| KEYCODE\_DPAD\_RIGHT | 导航键 向右 | 22 |
| KEYCODE\_MOVE\_HOME | 光标移动到开始键 | 122 |
| KEYCODE\_MOVE\_END | 光标移动到末尾键 | 123 |
| KEYCODE\_PAGE\_UP | 向上翻页键 | 92 |
| KEYCODE\_PAGE\_DOWN | 向下翻页键 | 93 |
| KEYCODE\_DEL | 退格键 | 67 |
| KEYCODE\_FORWARD\_DEL | 删除键 | 112 |
| KEYCODE\_INSERT | 插入键 | 124 |
| KEYCODE\_TAB | Tab键 | 61 |
| KEYCODE\_NUM\_LOCK | 小键盘锁 | 143 |
| KEYCODE\_CAPS\_LOCK | 大写锁定键 | 115 |
| KEYCODE\_BREAK | Break/Pause键 | 121 |
| KEYCODE\_SCROLL\_LOCK | 滚动锁定键 | 116 |
| KEYCODE\_ZOOM\_IN | 放大键 | 168 |
| KEYCODE\_ZOOM\_OUT | 缩小键 | 169 |

组合键

|  |  |
| --- | --- |
| KEYCODE\_ALT\_LEFT | Alt+Left |
| KEYCODE\_ALT\_RIGHT | Alt+Right |
| KEYCODE\_CTRL\_LEFT | Control+Left |
| KEYCODE\_CTRL\_RIGHT | Control+Right |
| KEYCODE\_SHIFT\_LEFT | Shift+Left |
| KEYCODE\_SHIFT\_RIGHT | Shift+Right |

基本

|  |  |  |
| --- | --- | --- |
| KEYCODE\_0 | 按键'0' | 7 |
| KEYCODE\_1 | 按键'1' | 8 |
| KEYCODE\_2 | 按键'2' | 9 |
| KEYCODE\_3 | 按键'3' | 10 |
| KEYCODE\_4 | 按键'4' | 11 |
| KEYCODE\_5 | 按键'5' | 12 |
| KEYCODE\_6 | 按键'6' | 13 |
| KEYCODE\_7 | 按键'7' | 14 |
| KEYCODE\_8 | 按键'8' | 15 |
| KEYCODE\_9 | 按键'9' | 16 |
| KEYCODE\_A | 按键'A' | 29 |
| KEYCODE\_B | 按键'B' | 30 |
| KEYCODE\_C | 按键'C' | 31 |
| KEYCODE\_D | 按键'D' | 32 |
| KEYCODE\_E | 按键'E' | 33 |
| KEYCODE\_F | 按键'F' | 34 |
| KEYCODE\_G | 按键'G' | 35 |
| KEYCODE\_H | 按键'H' | 36 |
| KEYCODE\_I | 按键'I' | 37 |
| KEYCODE\_J | 按键'J' | 38 |
| KEYCODE\_K | 按键'K' | 39 |
| KEYCODE\_L | 按键'L' | 40 |
| KEYCODE\_M | 按键'M' | 41 |
| KEYCODE\_N | 按键'N' | 42 |
| KEYCODE\_O | 按键'O' | 43 |
| KEYCODE\_P | 按键'P' | 44 |
| KEYCODE\_Q | 按键'Q' | 45 |
| KEYCODE\_R | 按键'R' | 46 |
| KEYCODE\_S | 按键'S' | 47 |
| KEYCODE\_T | 按键'T' | 48 |
| KEYCODE\_U | 按键'U' | 49 |
| KEYCODE\_V | 按键'V' | 50 |
| KEYCODE\_W | 按键'W' | 51 |
| KEYCODE\_X | 按键'X' | 52 |
| KEYCODE\_Y | 按键'Y' | 53 |
| KEYCODE\_Z | 按键'Z' | 54 |

符号

|  |  |
| --- | --- |
| KEYCODE\_PLUS | 按键'+' |
| KEYCODE\_MINUS | 按键'-' |
| KEYCODE\_STAR | 按键'\*' |
| KEYCODE\_SLASH | 按键'/' |
| KEYCODE\_EQUALS | 按键'=' |
| KEYCODE\_AT | 按键'@' |
| KEYCODE\_POUND | 按键'#' |
| KEYCODE\_APOSTROPHE | 按键''' (单引号) |
| KEYCODE\_BACKSLASH | 按键'\' |
| KEYCODE\_COMMA | 按键',' |
| KEYCODE\_PERIOD | 按键'.' |
| KEYCODE\_LEFT\_BRACKET | 按键'[' |
| KEYCODE\_RIGHT\_BRACKET | 按键']' |
| KEYCODE\_SEMICOLON | 按键';' |
| KEYCODE\_GRAVE | 按键'`' |
| KEYCODE\_SPACE | 空格键 |

小键盘

|  |  |
| --- | --- |
| KEYCODE\_NUMPAD\_0 | 小键盘按键'0' |
| KEYCODE\_NUMPAD\_1 | 小键盘按键'1' |
| KEYCODE\_NUMPAD\_2 | 小键盘按键'2' |
| KEYCODE\_NUMPAD\_3 | 小键盘按键'3' |
| KEYCODE\_NUMPAD\_4 | 小键盘按键'4' |
| KEYCODE\_NUMPAD\_5 | 小键盘按键'5' |
| KEYCODE\_NUMPAD\_6 | 小键盘按键'6' |
| KEYCODE\_NUMPAD\_7 | 小键盘按键'7' |
| KEYCODE\_NUMPAD\_8 | 小键盘按键'8' |
| KEYCODE\_NUMPAD\_9 | 小键盘按键'9' |
| KEYCODE\_NUMPAD\_ADD | 小键盘按键'+' |
| KEYCODE\_NUMPAD\_SUBTRACT | 小键盘按键'-' |
| KEYCODE\_NUMPAD\_MULTIPLY | 小键盘按键'\*' |
| KEYCODE\_NUMPAD\_DIVIDE | 小键盘按键'/' |
| KEYCODE\_NUMPAD\_EQUALS | 小键盘按键'=' |
| KEYCODE\_NUMPAD\_COMMA | 小键盘按键',' |
| KEYCODE\_NUMPAD\_DOT | 小键盘按键'.' |
| KEYCODE\_NUMPAD\_LEFT\_PAREN | 小键盘按键'(' |
| KEYCODE\_NUMPAD\_RIGHT\_PAREN | 小键盘按键')' |
| KEYCODE\_NUMPAD\_ENTER | 小键盘按键回车 |

功能键

|  |  |
| --- | --- |
| KEYCODE\_F1 | 按键F1 |
| KEYCODE\_F2 | 按键F2 |
| KEYCODE\_F3 | 按键F3 |
| KEYCODE\_F4 | 按键F4 |
| KEYCODE\_F5 | 按键F5 |
| KEYCODE\_F6 | 按键F6 |
| KEYCODE\_F7 | 按键F7 |
| KEYCODE\_F8 | 按键F8 |
| KEYCODE\_F9 | 按键F9 |
| KEYCODE\_F10 | 按键F10 |
| KEYCODE\_F11 | 按键F11 |
| KEYCODE\_F12 | 按键F12 |

多媒体键

|  |  |
| --- | --- |
| KEYCODE\_MEDIA\_PLAY | 多媒体键 播放 |
| KEYCODE\_MEDIA\_STOP | 多媒体键 停止 |
| KEYCODE\_MEDIA\_PAUSE | 多媒体键 暂停 |
| KEYCODE\_MEDIA\_PLAY\_PAUSE | 多媒体键 播放/暂停 |
| KEYCODE\_MEDIA\_FAST\_FORWARD | 多媒体键 快进 |
| KEYCODE\_MEDIA\_REWIND | 多媒体键 快退 |
| KEYCODE\_MEDIA\_NEXT | 多媒体键 下一首 |
| KEYCODE\_MEDIA\_PREVIOUS | 多媒体键 上一首 |
| KEYCODE\_MEDIA\_CLOSE | 多媒体键 关闭 |
| KEYCODE\_MEDIA\_EJECT | 多媒体键 弹出 |
| KEYCODE\_MEDIA\_RECORD | 多媒体键 录音 |

手柄按键

|  |  |
| --- | --- |
| KEYCODE\_BUTTON\_1 | 通用游戏手柄按钮#1 |
| KEYCODE\_BUTTON\_2 | 通用游戏手柄按钮 #2 |
| KEYCODE\_BUTTON\_3 | 通用游戏手柄按钮 #3 |
| KEYCODE\_BUTTON\_4 | 通用游戏手柄按钮 #4 |
| KEYCODE\_BUTTON\_5 | 通用游戏手柄按钮 #5 |
| KEYCODE\_BUTTON\_6 | 通用游戏手柄按钮 #6 |
| KEYCODE\_BUTTON\_7 | 通用游戏手柄按钮 #7 |
| KEYCODE\_BUTTON\_8 | 通用游戏手柄按钮 #8 |
| KEYCODE\_BUTTON\_9 | 通用游戏手柄按钮 #9 |
| KEYCODE\_BUTTON\_10 | 通用游戏手柄按钮 #10 |
| KEYCODE\_BUTTON\_11 | 通用游戏手柄按钮 #11 |
| KEYCODE\_BUTTON\_12 | 通用游戏手柄按钮 #12 |
| KEYCODE\_BUTTON\_13 | 通用游戏手柄按钮 #13 |
| KEYCODE\_BUTTON\_14 | 通用游戏手柄按钮 #14 |
| KEYCODE\_BUTTON\_15 | 通用游戏手柄按钮 #15 |
| KEYCODE\_BUTTON\_16 | 通用游戏手柄按钮 #16 |
| KEYCODE\_BUTTON\_A | 游戏手柄按钮 A |
| KEYCODE\_BUTTON\_B | 游戏手柄按钮 B |
| KEYCODE\_BUTTON\_C | 游戏手柄按钮 C |
| KEYCODE\_BUTTON\_X | 游戏手柄按钮 X |
| KEYCODE\_BUTTON\_Y | 游戏手柄按钮 Y |
| KEYCODE\_BUTTON\_Z | 游戏手柄按钮 Z |
| KEYCODE\_BUTTON\_L1 | 游戏手柄按钮 L1 |
| KEYCODE\_BUTTON\_L2 | 游戏手柄按钮 L2 |
| KEYCODE\_BUTTON\_R1 | 游戏手柄按钮 R1 |
| KEYCODE\_BUTTON\_R2 | 游戏手柄按钮 R2 |
| KEYCODE\_BUTTON\_MODE | 游戏手柄按钮 Mode |
| KEYCODE\_BUTTON\_SELECT | 游戏手柄按钮 Select |
| KEYCODE\_BUTTON\_START | 游戏手柄按钮 Start |
| KEYCODE\_BUTTON\_THUMBL | Left Thumb Button |
| KEYCODE\_BUTTON\_THUMBR | Right Thumb Button |

待查

|  |  |
| --- | --- |
| KEYCODE\_NUM | 按键Number modifier |
| KEYCODE\_INFO | 按键Info |
| KEYCODE\_APP\_SWITCH | 按键App switch |
| KEYCODE\_BOOKMARK | 按键Bookmark |
| KEYCODE\_AVR\_INPUT | 按键A/V Receiver input |
| KEYCODE\_AVR\_POWER | 按键A/V Receiver power |
| KEYCODE\_CAPTIONS | 按键Toggle captions |
| KEYCODE\_CHANNEL\_DOWN | 按键Channel down |
| KEYCODE\_CHANNEL\_UP | 按键Channel up |
| KEYCODE\_CLEAR | 按键Clear |
| KEYCODE\_DVR | 按键DVR |
| KEYCODE\_ENVELOPE | 按键Envelope special function |
| KEYCODE\_EXPLORER | 按键Explorer special function |
| KEYCODE\_FORWARD | 按键Forward |
| KEYCODE\_FORWARD\_DEL | 按键Forward Delete |
| KEYCODE\_FUNCTION | 按键Function modifier |
| KEYCODE\_GUIDE | 按键Guide |
| KEYCODE\_HEADSETHOOK | 按键Headset Hook |
| KEYCODE\_META\_LEFT | 按键Left Meta modifier |
| KEYCODE\_META\_RIGHT | 按键Right Meta modifier |
| KEYCODE\_PICTSYMBOLS | 按键Picture Symbols modifier |
| KEYCODE\_PROG\_BLUE | 按键Blue “programmable” |
| KEYCODE\_PROG\_GREEN | 按键Green “programmable” |
| KEYCODE\_PROG\_RED | 按键Red “programmable” |
| KEYCODE\_PROG\_YELLOW | 按键Yellow “programmable” |
| KEYCODE\_SETTINGS | 按键Settings |
| KEYCODE\_SOFT\_LEFT | 按键Soft Left |
| KEYCODE\_SOFT\_RIGHT | 按键Soft Right |
| KEYCODE\_STB\_INPUT | 按键Set-top-box input |
| KEYCODE\_STB\_POWER | 按键Set-top-box power |
| KEYCODE\_SWITCH\_CHARSET | 按键Switch Charset modifier |
| KEYCODE\_SYM | 按键Symbol modifier |
| KEYCODE\_SYSRQ | 按键System Request / Print Screen |
| KEYCODE\_TV | 按键TV |
| KEYCODE\_TV\_INPUT | 按键TV input |
| KEYCODE\_TV\_POWER | 按键TV power |
| KEYCODE\_WINDOW | 按键Window |
| KEYCODE\_UNKNOWN | 未知按键 |