```
Arkadiis-MacBook-Pro:~ ak$ java --version
java 11.0.1 2018-10-16 LTS
Java(TM) SE Runtime Environment 18.9 (build 11.0.1+13-LTS)
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.1+13-LTS, mixed mode)
Arkadiis-MacBook-Pro:~ ak$ which java
/usr/bin/java

Installing AndroidStudio:
(Custom +AVD)

/Users/ak/Library/Android/sdk

Arkadiis-MacBook-Pro:~ ak$ which python3
/usr/local/bin/python3
```

Python 3 and Python 2 Co-existence

Python.org Python 3.6 and 2.7.x versions can both be installed on your system and will not conflict. Command names for Python 3 contain a 3 in them, python3 (or python3.6), idle3 (or idle3.6), pip3 (or pip3.6), etc. Python 2.7 command names contain a 2 or no digit: python2 (or python2.7 or python), idle2 (or idle2.7 or idle), etc.

From /Applications/Python3.6/Update Shell Profile.command

. . .

Now:

PYTHON_ROOT="/Library/Frameworks/Python.framework/Versions/3.6"

```
Make Symlink output:
Last login: Fri Nov 16 19:04:47 on ttys001
/Volumes/Kivy3/MakeSymlinks; exit;
Arkadiis-MacBook-Pro:~ ak$ /Volumes/Kivy3/MakeSymlinks; exit;
ln: /usr/local/bin/kivy3: Permission denied
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.

[Process completed]
... MakeSymlinks failed. Fixed with
sudo ln -s /Applications/Kivy3.app/Contents/Resources/script /usr/local/bin/kivy
```

```
Arkadiis—MacBook—Pro:Kivy3 ak$ kivy
Python 3.6.5 (default, Jun 18 2018, 16:36:13)
[GCC 4.2.1 Compatible Apple LLVM 9.1.0 (clang—902.0.39.1)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

Install Brew

```
Arkadiis-MacBook-Pro:~ ak$ /usr/bin/ruby -e "$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/master/
install)"
==> This script will install:
/usr/local/bin/brew
/usr/local/share/doc/homebrew
/usr/local/share/man/man1/brew.1
/usr/local/share/zsh/site-functions/ brew
/usr/local/etc/bash completion.d/brew
/usr/local/Homebrew
==> The following existing directories will be made group
writable:
/usr/local/bin
==> The following existing directories will have their owner set
to ak:
/usr/local/bin
==> The following existing directories will have their group set
to admin:
/usr/local/bin
==> The following new directories will be created:
/usr/local/etc
/usr/local/include
/usr/local/lib
/usr/local/sbin
/usr/local/share
/usr/local/var
/usr/local/opt
/usr/local/share/zsh
/usr/local/share/zsh/site-functions
/usr/local/var/homebrew
/usr/local/var/homebrew/linked
/usr/local/Cellar
/usr/local/Caskroom
/usr/local/Homebrew
/usr/local/Frameworks
```

Press RETURN to continue or any other key to abort
==> /usr/bin/sudo /bin/chmod u+rwx /usr/local/bin

```
Password:
==> /usr/bin/sudo /bin/chmod q+rwx /usr/local/bin
==> /usr/bin/sudo /usr/sbin/chown ak /usr/local/bin
==> /usr/bin/sudo /usr/bin/chgrp admin /usr/local/bin
==> /usr/bin/sudo /bin/mkdir -p /usr/local/etc /usr/local/
include /usr/local/lib /usr/local/sbin /usr/local/share /usr/
local/var /usr/local/opt /usr/local/share/zsh /usr/local/share/
zsh/site-functions /usr/local/var/homebrew /usr/local/var/
homebrew/linked /usr/local/Cellar /usr/local/Caskroom /usr/
local/Homebrew /usr/local/Frameworks
==> /usr/bin/sudo /bin/chmod q+rwx /usr/local/etc /usr/local/
include /usr/local/lib /usr/local/sbin /usr/local/share /usr/
local/var /usr/local/opt /usr/local/share/zsh /usr/local/share/
zsh/site-functions /usr/local/var/homebrew /usr/local/var/
homebrew/linked /usr/local/Cellar /usr/local/Caskroom /usr/
local/Homebrew /usr/local/Frameworks
==> /usr/bin/sudo /bin/chmod 755 /usr/local/share/zsh /usr/
local/share/zsh/site-functions
==> /usr/bin/sudo /usr/sbin/chown ak /usr/local/etc /usr/local/
include /usr/local/lib /usr/local/sbin /usr/local/share /usr/
local/var /usr/local/opt /usr/local/share/zsh /usr/local/share/
zsh/site-functions /usr/local/var/homebrew /usr/local/var/
homebrew/linked /usr/local/Cellar /usr/local/Caskroom /usr/
local/Homebrew /usr/local/Frameworks
==> /usr/bin/sudo /usr/bin/chgrp admin /usr/local/etc /usr/
local/include /usr/local/lib /usr/local/sbin /usr/local/share /
usr/local/var /usr/local/opt /usr/local/share/zsh /usr/local/
share/zsh/site-functions /usr/local/var/homebrew /usr/local/var/
homebrew/linked /usr/local/Cellar /usr/local/Caskroom /usr/
local/Homebrew /usr/local/Frameworks
==> /usr/bin/sudo /bin/mkdir -p /Users/ak/Library/Caches/
Homebrew
==> /usr/bin/sudo /bin/chmod g+rwx /Users/ak/Library/Caches/
Homebrew
==> /usr/bin/sudo /usr/sbin/chown ak /Users/ak/Library/Caches/
Homebrew
==> /usr/bin/sudo /bin/mkdir -p /Library/Caches/Homebrew
==> /usr/bin/sudo /bin/chmod g+rwx /Library/Caches/Homebrew
==> /usr/bin/sudo /usr/sbin/chown ak /Library/Caches/Homebrew
==> Downloading and installing Homebrew...
remote: Enumerating objects: 26, done.
remote: Counting objects: 100% (26/26), done.
remote: Compressing objects: 100% (17/17), done.
remote: Total 114759 (delta 9), reused 16 (delta 9), pack-reused
114733
Receiving objects: 100% (114759/114759), 26.53 MiB | 898.00 KiB/
s, done.
```

Resolving deltas: 100% (83871/83871), done. From https://github.com/Homebrew/brew

LIO	m nt	rbs://grrunn.com/r	nomentew/bre	∃W	
*		branch]	master	->	origin/master
*	[new	tag]	0.1	->	0.1
*	[new	<u> </u>	0.2		0.2
*	[new	tag]	0.3		0.3
*	[new	tag]	0.4	->	0.4
*	[new		0.5		0.5
*	[new	_	0.6	->	0.6
*	[new	tag]	0.7	->	0.7
*	[new	tag]	0.7.1		0.7.1
*	[new	tag]	0.8		0.8
*	[new	tag]	0.8.1		0.8.1
*	[new	tag]	0.9		0.9
*	[new	_	0.9.1		0.9.1
*	[new	<u> </u>	0.9.2		0.9.2
*	[new	<u> </u>	0.9.3		0.9.3
*	[new		0.9.4		0.9.4
*	[new	<u> </u>	0.9.5		0.9.5
*	[new	- <u>-</u>	0.9.8		0.9.8
*	[new	<u> </u>	0.9.9		0.9.9
*	[new		1.0.0		1.0.0
*	[new	<u> </u>	1.0.1		1.0.1
*	[new	- <u>-</u>	1.0.2		1.0.2
*	[new	<u> </u>	1.0.3		1.0.3
*	[new	<u> </u>	1.0.4		1.0.4
*	[new	- <u>-</u>	1.0.5		1.0.5
*	[new	<u> </u>	1.0.6		1.0.6
*	[new		1.0.7		1.0.7
*	[new	<u> </u>	1.0.8		1.0.8
*	[new	_	1.0.9		1.0.9
*	[new		1.1.0		1.1.0
*	[new	~ <u>-</u>	1.1.1		1.1.1
*	[new	~ <u>-</u>	1.1.10		1.1.10
*	[new		1.1.11		1.1.11
*	[new	- <u>-</u>	1.1.12		1.1.12
*	[new		1.1.13		1.1.13
*	[new		1.1.2		1.1.2
*	[new		1.1.3		1.1.3
*	[new	_	1.1.4		1.1.4
*	[new		1.1.5		1.1.5
*	[new		1.1.6		1.1.6
*	[new	~ <u>-</u>	1.1.7		1.1.7
*	[new	- <u>-</u>	1.1.8		1.1.8
*	[new		1.1.9		1.1.9
*	[new		1.2.0		1.2.0
*	ιnew	tag]	1.2.1	->	1.2.1

	_	_		
*	[new	tag]	1.2.2	-> 1.2.2
*	[new	tag]	1.2.3	-> 1 . 2 . 3
	_	_		
*	[new	tag]	1.2.4	-> 1 . 2 . 4
*	[new	tag]	1.2.5	-> 1 . 2 . 5
	_			
*	[new	tag]	1.2.6	-> 1.2.6
*	[new	tag]	1.3.0	-> 1.3.0
*	Inew	tag]	1.3.1	-> 1 . 3.1
*	[new	tag]	1.3.2	-> 1.3. 2
*	[new	tag]	1.3.3	-> 1 . 3.3
	[new		1.3.4	-> 1.3.4
*	_	tag]		
*	[new	tag]	1.3.5	-> 1 . 3 . 5
*	[new	tag]	1.3.6	-> 1.3. 6
	_	<u> </u>		
*	[new	tag]	1.3.7	-> 1.3.7
*	lnew	tag]	1.3.8	-> 1.3.8
*	[new	tag]	1.3.9	-> 1.3.9
	_	-		
*	[new	tag]	1.4.0	-> 1 . 4 . 0
*	[new	tag]	1.4.1	-> 1.4.1
*	[new	tag]	1.4.2	-> 1 . 4 . 2
		_		
*	[new	tag]	1.4.3	-> 1.4. 3
*	[new	tag]	1.5.0	-> 1 . 5.0
	_	<u> </u>		
*	_	tag]	1.5.1	-> 1.5.1
*	[new	tag]	1.5.10	-> 1 . 5 . 10
*	[new	tag]	1.5.11	-> 1 . 5 . 11
	_			
*	[new	tag]	1.5.12	-> 1 . 5 . 12
*	[new	tag]	1.5.13	-> 1 . 5 . 13
*	[new	tag]	1.5.14	-> 1.5.14
	_	J _		
*	[new	tag]	1.5.2	-> 1.5. 2
*	[new	tag]	1.5.3	-> 1 . 5 . 3
	_	<u> </u>	1.5.4	-> 1.5.4
*	[new	tag]		
*	[new	tag]	1.5.5	-> 1.5.5
*	[new	tag]	1.5.6	-> 1 . 5 . 6
	_	_		
*	[new		1.5.7	-> 1.5. 7
*	[new	+ 2 0 1		
	LIICW	tay]	1.5.8	-> 1.5.8
ж	_	_		
*	[new	tag]	1.5.9	-> 1.5.9
*	[new [new	tag] tag]	1.5.9 1.6.0	-> 1.5.9 -> 1.6.0
	[new [new	tag]	1.5.9	-> 1.5.9
*	[new [new [new	tag] tag] tag]	1.5.9 1.6.0 1.6.1	-> 1.5.9 -> 1.6.0 -> 1.6.1
* * *	[new [new [new [new	tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10
*	[new [new [new [new	tag] tag] tag]	1.5.9 1.6.0 1.6.1	-> 1.5.9 -> 1.6.0 -> 1.6.1
* * *	[new [new [new [new	tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11
* * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12
* * * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12 1.6.13	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12 -> 1.6.13
* * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12
* * * * * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12 1.6.13 1.6.14	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12 -> 1.6.13 -> 1.6.14
* * * * * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12 1.6.13 1.6.14 1.6.15	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12 -> 1.6.13 -> 1.6.14 -> 1.6.15
* * * * * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12 1.6.13 1.6.14 1.6.15 1.6.16	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12 -> 1.6.13 -> 1.6.15 -> 1.6.15
* * * * * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12 1.6.13 1.6.14 1.6.15	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12 -> 1.6.13 -> 1.6.14 -> 1.6.15
* * * * * * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12 1.6.13 1.6.14 1.6.15 1.6.16 1.6.17	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12 -> 1.6.13 -> 1.6.14 -> 1.6.15 -> 1.6.16 -> 1.6.17
* * * * * * * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12 1.6.13 1.6.14 1.6.15 1.6.16 1.6.17	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12 -> 1.6.13 -> 1.6.14 -> 1.6.15 -> 1.6.16 -> 1.6.2
* * * * * * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12 1.6.13 1.6.14 1.6.15 1.6.16 1.6.17	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12 -> 1.6.13 -> 1.6.14 -> 1.6.15 -> 1.6.16 -> 1.6.3
* * * * * * * * *	[new [new [new [new [new [new [new [new	tag] tag] tag] tag] tag] tag] tag] tag]	1.5.9 1.6.0 1.6.1 1.6.10 1.6.11 1.6.12 1.6.13 1.6.14 1.6.15 1.6.16 1.6.17	-> 1.5.9 -> 1.6.0 -> 1.6.1 -> 1.6.10 -> 1.6.11 -> 1.6.12 -> 1.6.13 -> 1.6.14 -> 1.6.15 -> 1.6.16 -> 1.6.2

```
* [new tag]
                         1.6.5
                                    -> 1.6.5
 * [new tag]
                         1.6.6
                                    -> 1.6.6
                                    -> 1.6.7
 * [new taq]
                         1.6.7
 * [new taq]
                         1.6.8
                                    -> 1.6.8
 * [new tag]
                         1.6.9
                                    -> 1.6.9
                         1.7.0
                                    -> 1.7.0
 * [new tag]
                         1.7.1
                                    -> 1.7.1
 * [new taq]
                         1.7.2
                                    -> 1.7.2
* [new tag]
 * [new tag]
                         1.7.3
                                    -> 1.7.3
                                    -> 1.7.4
 * [new taq]
                         1.7.4
 * [new tag]
                         1.7.5
                                    -> 1.7.5
                         1.7.6
                                    -> 1.7.6
* [new tag]
                         1.7.7
 * [new tag]
                                    -> 1.7.7
 * [new tag]
                         1.8.0
                                    -> 1.8.0
 * [new tag]
                         1.8.1
                                    -> 1.8.1
                         1.8.2
                                    -> 1.8.2
 * [new tag]
                         1.8.3
                                    -> 1.8.3
 * [new tag]
HEAD is now at 724115608 Merge pull request #5308 from
GauthamGoli/pin-args
==> Homebrew is run entirely by unpaid volunteers. Please
consider donating:
  https://github.com/Homebrew/brew#donations
==> Tapping homebrew/core
Cloning into '/usr/local/Homebrew/Library/Taps/homebrew/
homebrew-core'...
remote: Enumerating objects: 4865, done.
remote: Counting objects: 100% (4865/4865), done.
remote: Compressing objects: 100% (4667/4667), done.
remote: Total 4865 (delta 50), reused 306 (delta 7), pack-reused
Receiving objects: 100% (4865/4865), 4.03 MiB | 574.00 KiB/s,
Resolving deltas: 100% (50/50), done.
Checking out files: 100% (4882/4882), done.
Tapped 2 commands and 4650 formulae (4,907 files, 12.6MB).
==> Migrating /Library/Caches/Homebrew to /Users/ak/Library/
Caches/Homebrew...
==> Deleting /Library/Caches/Homebrew...
Already up-to-date.
==> Installation successful!
==> Homebrew has enabled anonymous aggregate formulae and cask
analytics.
Read the analytics documentation (and how to opt-out) here:
  https://docs.brew.sh/Analytics
```

==> Homebrew is run entirely by unpaid volunteers. Please

consider donating: https://github.com/Homebrew/brew#donations ==> Next steps: Run `brew help` to get started Further documentation: https://docs.brew.sh

Install Dependecies

```
Arkadiis-MacBook-Pro: ~ ak$ brew install pkg-config sdl2
sdl2 image sdl2 ttf sdl2 mixer gstreamer
==> Downloading https://homebrew.bintray.com/bottles/pkg-
config-0.29.2.high sier
==> Downloading from https://akamai.bintray.com/f1/
f1b29fb5388dccab0fcaf665ab43d
####### 100.0%
==> Pouring pkg-config-0.29.2.high sierra.bottle.tar.gz
/usr/local/Cellar/pkg-config/0.29.2: 11 files, 627.2KB
==> Downloading https://homebrew.bintray.com/bottles/
sdl2-2.0.8.high sierra.bott
==> Downloading from https://akamai.bintray.com/
25/25cc31a9680beb16321613f740fee
####### 100.0%
==> Pouring sdl2-2.0.8.high_sierra.bottle.tar.gz
🐚 /usr/local/Cellar/sdl2/2.0.8: 86 files, 4.2MB
==> Installing dependencies for sdl2_image: jpeg, libpng,
libtiff and webp
==> Installing sdl2 image dependency: jpeg
==> Downloading https://homebrew.bintray.com/bottles/
jpeg-9c.high sierra.bottle.
==> Downloading from https://akamai.bintray.com/
17/178200fd8aa50d5db22c5faa4ca40
###### 100.0%
==> Pouring jpeg-9c.high sierra.bottle.tar.gz
  /usr/local/Cellar/jpeg/9c: 21 files, 724.5KB
==> Installing sdl2 image dependency: libpng
==> Downloading https://homebrew.bintray.com/bottles/
libpng-1.6.35.high sierra.b
==> Downloading from https://akamai.bintray.com/6d/
6d87a8bac8290bef728e8faf1d39a
####### 100.0%
```

```
==> Pouring libpng-1.6.35.high_sierra.bottle.tar.gz
/usr/local/Cellar/libpng/1.6.35: 26 files, 1.2MB
==> Installing sdl2 image dependency: libtiff
==> Downloading https://homebrew.bintray.com/bottles/
libtiff-4.0.9 5.high sierra
==> Downloading from https://akamai.bintray.com/
94/948a1f8f1d24d0dabbbc073a3052d
###### 100.0%
==> Pouring libtiff-4.0.9 5.high_sierra.bottle.tar.gz
/usr/local/Cellar/libtiff/4.0.9 5: 246 files. 3.5MB
==> Installing sdl2 image dependency: webp
==> Downloading https://homebrew.bintray.com/bottles/
webp-1.0.1.sierra.bottle.ta
==> Downloading from https://akamai.bintrav.com/
51/516715778a85358459a7214b2d1bd
###### 100.0%
==> Pouring webp-1.0.1.sierra.bottle.tar.gz
🐚 /usr/local/Cellar/webp/1.0.1: 39 files, 2MB
==> Installing sdl2 image
==> Downloading https://homebrew.bintray.com/bottles/
sdl2 image-2.0.4.high sierr
###### 100.0%
==> Pouring sdl2 image-2.0.4.high sierra.bottle.tar.gz
🐚 /usr/local/Cellar/sdl2 image/2.0.4: 10 files, 279.2KB
==> Installing dependencies for sdl2 ttf: freetype
==> Installing sdl2_ttf dependency: freetype
==> Downloading https://homebrew.bintray.com/bottles/
freetype-2.9.1.high sierra.
==> Downloading from https://akamai.bintray.com/
44/444ef60a543aca6ca26223f46182c
###### 100.0%
==> Pouring freetype-2.9.1.high_sierra.bottle.tar.gz
/usr/local/Cellar/freetype/2.9.1: 60 files, 2.6MB
==> Installing sdl2 ttf
==> Downloading https://homebrew.bintray.com/bottles/
sdl2 ttf-2.0.14.high sierra
###### 100.0%
==> Pouring sdl2 ttf-2.0.14.high sierra.bottle.tar.gz
🕦 /usr/local/Cellar/sdl2 ttf/2.0.14: 10 files, 72.1KB
```

```
==> Installing dependencies for sdl2 mixer: libmodplug, libogg
and libvorbis
==> Installing sdl2 mixer dependency: libmodplug
==> Downloading https://homebrew.bintray.com/bottles/
libmodplug-0.8.9.0.high sie
####### 100.0%
==> Pouring libmodplug-0.8.9.0.high_sierra.bottle.1.tar.gz
/usr/local/Cellar/libmodplug/0.8.9.0: 15 files, 336.6KB
==> Installing sdl2 mixer dependency: libogg
==> Downloading https://homebrew.bintrav.com/bottles/
libogg-1.3.3.high sierra.bo
==> Downloading from https://akamai.bintray.com/1b/
1b3faf0793a08736aa1baca0a64ae
###### 100.0%
==> Pouring libogg-1.3.3.high sierra.bottle.tar.gz
/usr/local/Cellar/libogg/1.3.3: 97 files, 460.2KB
==> Installing sdl2 mixer dependency: libvorbis
==> Downloading https://homebrew.bintray.com/bottles/
libvorbis-1.3.6.high sierra
==> Downloading from https://akamai.bintray.com/a9/
a9ec94abce8d34210ce323d2398ae
###### 100.0%
==> Pouring libvorbis-1.3.6.high sierra.bottle.tar.gz
  /usr/local/Cellar/libvorbis/1.3.6: 157 files, 2.3MB
==> Installing sdl2 mixer
==> Downloading https://homebrew.bintray.com/bottles/
sdl2 mixer-2.0.4.high sierr
###### 100.0%
==> Pouring sdl2 mixer-2.0.4.high sierra.bottle.tar.gz
/usr/local/Cellar/sdl2 mixer/2.0.4: 10 files, 309.7KB
==> Installing dependencies for gstreamer: gettext, libffi, pcre
and glib
==> Installing gstreamer dependency: gettext
==> Downloading https://homebrew.bintray.com/bottles/
gettext-0.19.8.1.high sierr
==> Downloading from https://akamai.bintray.com/
99/99d2dbd4c9ebfe9bf2a64bd99f3a6
###### 100.0%
==> Pouring gettext-0.19.8.1.high_sierra.bottle.tar.gz
==> Caveats
```

gettext is keg-only, which means it was not symlinked into /usr/ local, because macOS provides the BSD gettext library & some software gets confused if both are in the library path. If you need to have gettext first in your PATH run: echo 'export PATH="/usr/local/opt/gettext/bin:\$PATH"' >> ~/.bash_profile For compilers to find gettext you may need to set: export LDFLAGS="-L/usr/local/opt/gettext/lib" export CPPFLAGS="-I/usr/local/opt/gettext/include" ==> Summary ከ /usr/local/Cellar/gettext/0.19.8.1: 1,935 files, 16.9MB ==> Installing gstreamer dependency: libffi ==> Downloading https://homebrew.bintray.com/bottles/ libffi-3.2.1.high sierra.bo ###### 100.0% ==> Pouring libffi-3.2.1.high_sierra.bottle.tar.qz ==> Caveats libffi is keg-only, which means it was not symlinked into /usr/ local, because some formulae require a newer version of libffi. For compilers to find libffi you may need to set: export LDFLAGS="-L/usr/local/opt/libffi/lib" For pkg-config to find libffi you may need to set: export PKG CONFIG PATH="/usr/local/opt/libffi/lib/pkgconfig" ==> Summary ከ /usr/local/Cellar/libffi/3.2.1: 16 files, 297.0KB ==> Installing gstreamer dependency: pcre ==> Downloading https://homebrew.bintray.com/bottles/ pcre-8.42.high sierra.bottl ==> Downloading from https://akamai.bintray.com/b9/ b904c008c04003c3f40e30c6ee6a3 ####### 100.0% ==> Pouring pcre-8.42.high_sierra.bottle.tar.gz /usr/local/Cellar/pcre/8.42: 204 files, 5.3MB

==> Installing gstreamer dependency: glib

==> Downloading https://homebrew.bintray.com/bottles/

```
glib-2.58.1.high_sierra.bot
==> Downloading from https://akamai.bintray.com/6f/
6f4b16f4146bfa8ca324a2e066b60
###### 100.0%
==> Pouring glib-2.58.1.high_sierra.bottle.tar.gz
ከ /usr/local/Cellar/glib/2.58.1: 435 files, 18.4MB
==> Installing gstreamer
==> Downloading https://homebrew.bintray.com/bottles/
gstreamer-1.14.4.high_sierr
==> Downloading from https://akamai.bintrav.com/f5/
f51c9fc52634124810ce4860655ae
####### 100.0%
==> Pouring gstreamer-1.14.4.high sierra.bottle.tar.gz
==> Caveats
Consider also installing gst-plugins-base and gst-plugins-good.
The gst-plugins-* packages contain gstreamer-video-1.0,
gstreamer-audio-1.0.
and other components needed by most gstreamer applications.
==> Summary
/usr/local/Cellar/gstreamer/1.14.4: 415 files, 21.6MB
==> Caveats
==> gettext
gettext is keg-only, which means it was not symlinked into /usr/
local.
because macOS provides the BSD gettext library & some software
gets confused if both are in the library path.
If you need to have gettext first in your PATH run:
 echo 'export PATH="/usr/local/opt/gettext/bin:$PATH"' >>
~/.bash profile
For compilers to find gettext you may need to set:
 export LDFLAGS="-L/usr/local/opt/gettext/lib"
 export CPPFLAGS="-I/usr/local/opt/gettext/include"
==> libffi
libffi is keg-only, which means it was not symlinked into /usr/
local,
because some formulae require a newer version of libffi.
```

For compilers to find libffi you may need to set: export LDFLAGS="-L/usr/local/opt/libffi/lib"

```
For pkg-config to find libffi you may need to set:
  export PKG_CONFIG_PATH="/usr/local/opt/libffi/lib/pkgconfig"
==> gstreamer
Consider also installing qst-plugins-base and qst-plugins-qood.
```

The gst-plugins-* packages contain gstreamer-video-1.0, gstreamer-audio-1.0,

and other components needed by most gstreamer applications.

Install Cython

```
Arkadiis-MacBook-Pro:~ ak$ pip3 install Cython==0.26.1
Collecting Cvthon==0.26.1
  Downloading https://files.pythonhosted.org/packages/64/
f1/7959585c3ad4a78ab43445a19b0bcdce80cca5875dd4bdb8dc81496a7d41/
Cython-0.26.1-cp36-cp36m-
macosx 10 6 intel.macosx 10 9 intel.macosx 10 9 x86 64.macosx 10
10 intel.macosx 10 10 x86 64.whl (4.6MB)
                                       4.6MB 847kB/s
    100%
Installing collected packages: Cython
Successfully installed Cython-0.26.1
You are using pip version 10.0.1, however version 18.1 is
available.
You should consider upgrading via the 'pip install --upgrade
pip' command.
```

BTW ... upgrade PIP

```
Arkadiis-MacBook-Pro:∼ ak$ pip3 install --upgrade pip
Collecting pip
  Downloading https://files.pythonhosted.org/packages/c2/
d7/90f34cb0d83a6c5631cf71dfe64cc1054598c843a92b400e55675cc2ac37/
pip-18.1-py2.py3-none-any.whl (1.3MB)
    100%
                                      1.3MB 1.6MB/s
Installing collected packages: pip
  Found existing installation: pip 10.0.1
    Uninstalling pip-10.0.1:
      Successfully uninstalled pip-10.0.1
Successfully installed pip-18.1
Testing Kivy
testapp.py:
```

```
import kivy
kivy.require('1.10.1') # replace with your current kivy
version
from kivy app import App
from kivy.uix.label import Label
class MyApp(App):
    def build(self):
        return Label(text='Hello world')
if __name__ == '__main__':
    MyApp() run()
Arkadiis-MacBook-Pro:∼ ak$ cd
.CFUserTextEncoding .Trash/
                                         .atom/
bash profile
                    .python_history
                                        Documents/
Library/
                    Music/
                                         Public/
.DS_Store
                    .android/
                                         .bash_history
bash_sessions/
                                        Downloads/
                   Desktop/
Movies/
                    Pictures/
Arkadiis-MacBook-Pro:∼ ak$ cd
.CFUserTextEncoding .Trash/
                                         .atom/
                   .python_history
bash_profile
                                        Documents/
Library/
                    Music/
                                         Public/
.DS_Store
                     android/
                                         .bash_history
                                        Downloads/
bash_sessions/
                   Desktop/
Movies/
                    Pictures/
Arkadiis-MacBook-Pro:∼ ak$ cd Documents/
Arkadiis-MacBook-Pro:Documents ak$ cd projects/
                                            Django-Python-Full-
Stack-Web-Devloper-master/
                                     Django2.0-Python-Full-
Stack-Web-Developer-NEWmaster.zip
Arkadiis-MacBook-Pro:projects ak$ cd testkivy
Arkadiis-MacBook-Pro:testkivy ak$ kivy testapp.py
                      ] Record log in /Applications/Kivy3.app/
[INFO ] [Logger
Contents/Resources/.kivy/logs/kivy_18-11-21_1.txt
                      l v1.10.1
       ] [Kivv
INFO
                      ] v3.6.5 (default, Jun 18 2018, 16:36:13)
        ] [Python
[INFO
[GCC 4.2.1 Compatible Apple LLVM 9.1.0 (clang-902.0.39.1)]
[INFO ] [Factory ] 194 symbols loaded
```

```
[INFO
        ] [Image
                       Providers: img_tex, img_imageio,
img_dds, img_sdl2, img_gif (img_pil, img_ffpyplayer ignored)
[INFO
        ] [Text
                       l Provider: sdl2
INFO
        ] [Window
                       l Provider: sdl2
                       ] Using the "OpenGL ES 2" graphics system
[INFO
        ] [GL
[INFO
        ] [GL
                       ] Backend used <ql>
                       ] OpenGL version <b'2.1 NVIDIA-10.4.14</pre>
[INFO
       ] [GL
310.90.30.05b27'>
[INFO
       ] [GL
                       ] OpenGL vendor <b'NVIDIA Corporation'>
[INFO
        ] [GL
                       ] OpenGL renderer <b 'NVIDIA GeForce GT
330M OpenGL Engine'>
        ] [GL
[INFO
                       ] OpenGL parsed version: 2, 1
        ] [GL
                       ] Shading version <b'1.20'>
[INFO
[INFO
        ] [GL
                       l Texture max size <8192>
[INFO
        ] [GL
                       l Texture max units <16>
[INFO
        ] [Window
                       ] auto add sdl2 input provider
[INFO
      ] [Window
                       ] virtual keyboard not allowed, single
mode, not docked
[INFO
       ] [Base
                       ] Start application main loop
[INFO
        ] [GL
                       ] NPOT texture support is available
[INFO
        l [Base
                       Leaving application in progress...
Arkadiis-MacBook-Pro:testkivy ak$
```

Trying to start Joystick

kivy -m pip3 install kivy-garden

```
Arkadiis-MacBook-Pro:testkivy ak$ kivy -m pip install kivy-
garden
Requirement already satisfied: kivy-garden in /Applications/
Kivy3.app/Contents/Frameworks/python/3.6.5/lib/python3.6/site-
packages
Requirement already satisfied: requests in /Applications/
Kivy3.app/Contents/Frameworks/python/3.6.5/lib/python3.6/site-
packages (from kivy-garden)
Requirement already satisfied: urllib3<1.25,>=1.21.1 in /
Applications/Kivy3.app/Contents/Frameworks/python/3.6.5/lib/
python3.6/site-packages (from requests->kivy-garden)
Requirement already satisfied: idna<2.8,>=2.5 in /Applications/
Kivy3.app/Contents/Frameworks/python/3.6.5/lib/python3.6/site-
packages (from requests->kivy-garden)
Requirement already satisfied: certifi>=2017.4.17 in /
Applications/Kivy3.app/Contents/Frameworks/python/3.6.5/lib/
python3.6/site-packages (from requests->kivy-garden)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /
```

```
Applications/Kivy3.app/Contents/Frameworks/python/3.6.5/lib/python3.6/site-packages (from requests->kivy-garden)
You are using pip version 9.0.3, however version 18.1 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.
Arkadiis-MacBook-Pro:testkivy ak$ kivy
Python 3.6.5 (default, Jun 18 2018, 16:36:13)
[GCC 4.2.1 Compatible Apple LLVM 9.1.0 (clang-902.0.39.1)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
```

Above cannot run py programs with kivy.garden.joystick

Try another *hole

```
Arkadiis-MacBook-Pro:testkivy ak$ pip3 -V
pip 18.1 from /Library/Frameworks/Python.framework/Versions/3.6/
lib/python3.6/site-packages/pip (python 3.6)
Arkadiis-MacBook-Pro:testkivy ak$ pip -V
pip 18.1 from /Library/Frameworks/Python.framework/Versions/3.6/
lib/python3.6/site-packages/pip (python 3.6)
Arkadiis-MacBook-Pro:testkivy ak$ pip install kivy-garden
Collecting kivy-garden
  Using cached https://files.pythonhosted.org/packages/7d/68/
decaee596ff8168a39432eb3949fc7c0be952ebb9467806823bffc165d48/
kivy-garden-0.1.4.tar.gz
Collecting requests (from kivy-garden)
  Using cached https://files.pythonhosted.org/packages/ff/
17/5cbb026005115301a8fb2f9b0e3e8d32313142fe8b617070e7baad20554f/
requests-2.20.1-py2.py3-none-any.whl
Collecting certifi>=2017.4.17 (from requests->kivy-garden)
  Using cached https://files.pythonhosted.org/packages/56/9d/
1d02dd80bc4cd955f98980f28c5ee2200e1209292d5f9e9cc8d030d18655/
certifi-2018.10.15-py2.py3-none-any.whl
Collecting chardet<3.1.0,>=3.0.2 (from requests->kivy-garden)
  Using cached https://files.pythonhosted.org/packages/bc/
a9/01ffebfb562e4274b6487b4bb1ddec7ca55ec7510b22e4c51f14098443b8/
chardet-3.0.4-py2.py3-none-any.whl
Collecting idna<2.8,>=2.5 (from requests->kivy-garden)
  Using cached https://files.pythonhosted.org/packages/4b/2a/
0276479a4b3caeb8a8c1af2f8e4355746a97fab05a372e4a2c6a6b876165/
idna-2.7-py2.py3-none-any.whl
Collecting urllib3<1.25,>=1.21.1 (from requests->kivy-garden)
  Using cached https://files.pythonhosted.org/packages/62/00/
```

ee1d7de624db8ba7090d1226aebefab96a2c71cd5cfa7629d6ad3f61b79e/urllib3-1.24.1-py2.py3-none-any.whl
Installing collected packages: certifi, chardet, idna, urllib3, requests, kivy-garden
Running setup.py install for kivy-garden ... done
Successfully installed certifi-2018.10.15 chardet-3.0.4 idna-2.7 kivy-garden-0.1.4 requests-2.20.1 urllib3-1.24.1

This garden is buggy Uninstalling

Arkadiis-MacBook-Pro:testkivy ak\$ pip3 uninstall kivy-garden
Uninstalling Kivy-Garden-0.1.4:
Would remove:
 /Library/Frameworks/Python.framework/Versions/3.6/bin/garden
 /Library/Frameworks/Python.framework/Versions/3.6/bin/
garden.bat
 /Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/Kivy_Garden-0.1.4-py3.6.egg-info
 /Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/garden/*
Proceed (y/n)? y
 Successfully uninstalled Kivy-Garden-0.1.4
Arkadiis-MacBook-Pro:testkivy ak\$ pip uninstall kivy-garden
Skipping kivy-garden as it is not installed.

Installing from kivy-garden/garden@master

Install requests

sudo pip install requests

Arkadiis-MacBook-Pro:testkivy ak\$ pip install git+https://github.com/kivy-garden/garden@master
Collecting git+https://github.com/kivy-garden/garden@master
Cloning https://github.com/kivy-garden/garden (to revision master) to /private/var/folders/_n/
ndycw_zx7kb8gqy9kqwl3mnr0000gn/T/pip-req-build-vdnsm831
Requirement already satisfied: requests in /Library/Frameworks/
Python.framework/Versions/3.6/lib/python3.6/site-packages (from Kivy-Garden==0.1.4) (2.20.1)
Requirement already satisfied: urllib3<1.25,>=1.21.1 in /
Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/
site-packages (from requests->Kivy-Garden==0.1.4) (1.24.1)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /
Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/

```
site-packages (from requests->Kivy-Garden==0.1.4) (3.0.4)
Requirement already satisfied: idna<2.8,>=2.5 in /Library/
Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-
packages (from requests->Kivy-Garden==0.1.4) (2.7)
Requirement already satisfied: certifi>=2017.4.17 in /Library/
Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-
packages (from requests->Kivy-Garden==0.1.4) (2018.10.15)
Installing collected packages: Kivy-Garden
  Running setup.py install for Kivy-Garden ... done
Successfully installed Kivy-Garden-0.1.4
Arkadiis-MacBook-Pro:testkivy ak$ garden
usage: garden [-h] {list, search, install, uninstall} ...
Garden command-line tool.
positional arguments:
  {list, search, install, uninstall}
                        List all the installed garden packages
    list
    search
                        Search garden package on github
    install
                        Install a garden package
    uninstall
                        Uninstall a garden package
optional arguments:
  -h, --help
                        show this help message and exit
Arkadiis-MacBook-Pro:testkivy ak$ garden -h
usage: garden [-h] {list,search,install,uninstall} ...
Garden command-line tool.
positional arguments:
  {list, search, install, uninstall}
    list
                        List all the installed garden packages
                        Search garden package on github
    search
                        Install a garden package
    install
    uninstall
                        Uninstall a garden package
optional arguments:
  -h, --help
                        show this help message and exit
Arkadiis-MacBook-Pro:testkivy ak$ garden --list
usage: garden [-h] {list,search,install,uninstall} ...
garden: error: unrecognized arguments: --list
Arkadiis-MacBook-Pro:testkivy ak$ garden list
Arkadiis-MacBook-Pro:testkivy ak$ garden search
anchoredscrollview - Anchored ScrollView Kivy widget
androidtabs - No description
androidvlc - No description
animationbuilder - Easy way of writing Kivy Animations
```

```
animlabel - An animated label implementation, allowing for
custom transform functions
animlabel bezier - an extension of the animlabel tool, to make a
label follow a bezier path
bar - Bar widget represents the 0-100 range percentage value as
a coloured rectangle. It is known as used in statistics graphs.
cefpython - CEFPython Kivy widget
circulardatetimepicker - Android-like date & time picker for
Kivy
circularlayout - CircularLayout for Kivy
collider - Collides a point with a space defined by a curve.
contactform - Kivy garden flower providing widget for sending e-
mail from form on app
contextmenu - No description
datetimepicker - roulette based datetime selector like in iOS
and android.
ddd - A 3d view widget for kivv
desktopvideoplayer - No description
docbrowser - Browser for view documentation of Python modules
facelock - It is a flower made for kivy-garden
filebrowser - An advanced file browser.
filechooserthumbview - FileChooserThumbView for Kivv
gauge - Kivy Widget Gauge
geartick - A gear based Ticker for use in rotating sliders
graph - Displays plots on a graph.
hotkeybehavior - Global HotKey behavior for a Kivy root widget
iconfonts - Simple helper functions to make easier to use icon
fonts in Labels and derived widgets
inkcanvas - Gesture recognition
joystick - A on screen joystick for Kivy
knob - Knob widget for Kivy.
magnet - A magnet widget for kivy garden
```

Install Joystick

```
install
                        Install a garden package
    uninstall
                        Uninstall a garden package
optional arguments:
  -h, --help
                        show this help message and exit
Arkadiis-MacBook-Pro:testkivy ak$ garden install joystick
Downloading https://github.com/kivy-garden/garden.joystick/
archive/master.zip ...
Progression 1024 |
Progression 2048 /
Progression 3072 -
Progression 930816 |
Progression 931650 /
Download done (931650 downloaded)
Extracting...
Installing new version...
Done! garden.joystick is installed at: /Users/ak/.kivy/garden/
garden.jovstick
Cleaning...
But Joystick is not available yet
Arkadiis-MacBook-Pro:testkivy ak$ kivy testjoystick.py
                      ] Record log in /Applications/Kivy3.app/
[INFO ] [Logger
Contents/Resources/.kivy/logs/kivy_18-11-23_4.txt
[INFO
        ] [Kivy
                      ] v1.10.1
                       ] v3.6.5 (default, Jun 18 2018, 16:36:13)
        ] [Python
[INFO
[GCC 4.2.1 Compatible Apple LLVM 9.1.0 (clang-902.0.39.1)]
INFO
      ] [Factory ] 194 symbols loaded
                       Providers: img_tex, img_imageio,
[INFO
        ] [Image
img_dds, img_sdl2, img_gif (img_pil, img_ffpyplayer ignored)
 Traceback (most recent call last):
   File "testjoystick.py", line 2, in <module>
     from kivy.garden.joystick import Joystick
   File "<frozen importlib. bootstrap>", line 971, in
_find and load
   File "<frozen importlib._bootstrap>", line 955, in
_find_and_load_unlocked
   File "<frozen importlib. bootstrap>", line 656, in
_load_unlocked
   File "<frozen importlib. bootstrap>", line 628, in
_load_backward_compatible
KeyError: 'kivy.garden.joystick'
Arkadiis-MacBook-Pro:testkivy ak$ garden list
iovstick
Arkadiis-MacBook-Pro:testkivy ak$ which garden
```

```
/Library/Frameworks/Python.framework/Versions/3.6/bin/garden
Arkadiis-MacBook-Pro:testkivy ak$ which kivy
/usr/local/bin/kivy
Arkadiis-MacBook-Pro:testkivy ak$ ls
testapp.py testjoystick.kv testjoystick.py
```

Add Joystick package locally

```
Arkadiis-MacBook-Pro:testkivy ak$ garden install --app joystick
Downloading https://github.com/kivy-garden/garden.joystick/
archive/master.zip ...
Progression 1024 |
Progression 2048 /
Progression 3072 -
Progression 930816 |
Progression 931650 /
Download done (931650 downloaded)
Extracting...
Installing new version...
Done! garden.iovstick is installed at: /Users/ak/Documents/
projects/testkivy/libs/garden/garden.joystick
Cleaning...
Arkadiis-MacBook-Pro:testkivy ak$ kivy testjoystick.py
                       Record log in /Applications/Kivy3.app/
[INFO
        ] [Logger
Contents/Resources/.kivy/logs/kivy_18-11-23_5.txt
[INFO
        ] [Kivy
                       ] v1.10.1
                       ] v3.6.5 (default, Jun 18 2018, 16:36:13)
        ] [Python
[INFO
[GCC 4.2.1 Compatible Apple LLVM 9.1.0 (clang-902.0.39.1)]
[INFO ] [Factory
                       ] 194 symbols loaded
[INFO
        ] [Image
                       Providers: img tex, img imageio,
img_dds, img_sdl2, img_gif (img_pil, img_ffpyplayer ignored)
[INFO
                       l Provider: sdl2
        ] [Text
        ] [Window
                       l Provider: sdl2
INFO
                       ] Using the "OpenGL ES 2" graphics system
        ] [GL
INFO
                       ] Backend used <ql>
[INFO
        ] [GL
                       ] OpenGL version <br/>
<br/>
VIDIA-10.4.14
[INFO ] [GL
310.90.30.05b27'>
[INFO
      ] [GL
                       ] OpenGL vendor <b'NVIDIA Corporation'>
        ] [GL
[INFO
                       ] OpenGL renderer <b'NVIDIA GeForce GT
330M OpenGL Engine'>
       ] [GL
                       ] OpenGL parsed version: 2, 1
[INFO
[INFO
        ] [GL
                       ] Shading version <b'1.20'>
[INFO
        ] [GL
                       l Texture max size <8192>
[INFO
        ] [GL
                       ] Texture max units <16>
                       ] auto add sdl2 input provider
[INFO
        l [Window
[INFO
       l [Window
                       ] virtual keyboard not allowed, single
```

```
mode, not docked
[INFO ] [Base ] Start application main loop
[INFO ] [GL ] NPOT texture support is available
[INFO ] [Base ] Leaving application in progress...
```

Installing Buildozer

Arkadiis-MacBook-Pro:testkivy ak\$ sudo pip install buildozer Password:

The directory '/Users/ak/Library/Caches/pip/http' or its parent directory is not owned by the current user and the cache has been disabled. Please check the permissions and owner of that directory. If executing pip with sudo, you may want sudo's -H flag.

The directory '/Users/ak/Library/Caches/pip' or its parent directory is not owned by the current user and caching wheels has been disabled. check the permissions and owner of that directory. If executing pip with sudo, you may want sudo's -H flag.

Collecting buildozer

Downloading https://files.pythonhosted.org/packages/a7/2c/b98d30feaf26e44eb31a3a20428b6b179888b22b765e160aec6863c5c551/buildozer-0.36.tar.gz (93kB)

```
100% | 102kB 1.2MB/s Collecting pexpect (from buildozer)
```

Downloading https://files.pythonhosted.org/packages/89/e6/b5a1de8b0cc4e07ca1b305a4fcc3f9806025c1b651ea302646341222f88b/pexpect-4.6.0-py2.py3-none-any.whl (57kB)

```
100% | 61kB 2.3MB/s Collecting virtualenv (from buildozer)
```

Downloading https://files.pythonhosted.org/packages/7c/17/9b7b6cddfd255388b58c61e25b091047f6814183e1d63741c8df8dcd65a2/virtualenv-16.1.0-py2.py3-none-any.whl (1.9MB)

```
100% | 1.9MB 2.5MB/s Collecting ptyprocess>=0.5 (from pexpect->buildozer)
```

Downloading https://files.pythonhosted.org/packages/d1/29/605c2cc68a9992d18dada28206eeada56ea4bd07a239669da41674648b6f/ptyprocess-0.6.0-py2.py3-none-any.whl

Installing collected packages: ptyprocess, pexpect, virtualenv, buildozer

Running setup.py install for buildozer ... done Successfully installed buildozer-0.36 pexpect-4.6.0 ptyprocess-0.6.0 virtualenv-16.1.0

```
sudo pip install https://github.com/kivy/buildozer/archive/
master.zip
```

Error No module named 'sh'

```
Arkadiis-MacBook-Pro:testkivy ak$ buildozer android debug
# Check configuration tokens
Traceback (most recent call last):
  File "/Library/Frameworks/Python.framework/Versions/3.6/bin/
buildozer", line 11, in <module>
    load_entry_point('buildozer==0.37.dev0', 'console_scripts',
'buildozer')()
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/scripts/client.py", line 13,
in main
    Buildozer().run command(sys.argv[1:])
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/__init__.py", line 1053, in
run command
    targets = [x[0] \text{ for } x \text{ in self.targets}()]
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/__init_.py", line 1053, in
tcomp>
    targets = [x[0] \text{ for } x \text{ in self.targets()}]
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/__init__.py", line 945, in
targets
    fromlist=['buildozer'])
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/targets/android.py", line 28,
in <module>
    import sh
ModuleNotFoundError: No module named 'sh'
No sh.py present here
Arkadiis-MacBook-Pro:bin ak$ cd /Library/Frameworks/
Python.framework/Versions/3.6/lib/python3.6/site-packages/
buildozer/targets/
Arkadiis-MacBook-Pro:targets ak$ ls
__init__.py __pycache__ android.py android_new.py
    ios.py
                osx.py
Arkadiis-MacBook-Pro:targets ak$ cd /Library/Frameworks/
Python.framework/Versions/3.6/lib/python3.6/
Arkadiis-MacBook-Pro:python3.6 ak$ ls
```

```
LICENSE.txt
                        ctypes
                                                mailcap.py
                socketserver.py
__future__.py
                            curses
    mimetypes.py
                                sqlite3
 _phello__.foo.py
                            datetime.pv
    modulefinder.py
                                sre_compile.py
pycache
                        dbm
                                            multiprocessing
                sre_constants.py
bootlocale.py
                            decimal.py
                            sre_parse.py
    netrc.py
_collections_abc.py
                            difflib.py
    nntplib.py
                            ssl.py
compat pickle.py
                            dis.py
    ntpath.py
                            stat.py
compression.py
                            distutils
    nturl2path.py
                                statistics.py
dummy thread.py
                            doctest.py
    numbers.py
                            string.py
markupbase.py
                            dummy_threading.py
        opcode.py
                                stringprep.py
_osx_support.py
                            email
    operator.py
                            struct.py
_pydecimal.py
                            encodings
    optparse.py
                            subprocess.py
                        ensurepip
_pyio.py
                                                os.py
                    sunau.py
_sitebuiltins.py
                            enum.py
                            symbol.py
    pathlib.py
_strptime.py
                            filecmp.py
    pdb.py
                            symtable.py
sysconfigdata m darwin darwin.py fileinput.py
                pickle.py
                                        sysconfig.py
_threading_local.py
                            fnmatch.py
                                tabnanny.py
    pickletools.py
weakrefset.py
                            formatter.py
        pipes.py
                                tarfile.py
                        fractions.py
abc.py
                            telnetlib.py
    pkgutil.py
                        ftplib.py
aifc.py
                                                platform.py
                tempfile.py
                            functools.py
antigravity.py
        plistlib.py
                                test
argparse.py
                        genericpath.py
    poplib.py
                            textwrap.py
ast.py
                        getopt.py
                                                posixpath.py
                this.py
asynchat.py
                        getpass.py
                                                pprint.py
```

asyncio gettext.py profile.py asyncore.py glob.py pstats.py tkinter base64.py gzip.py pty.py token.py bdb.py token.py binhex.py heapq.py pyclor.py trace.py bisect.py html pydoc_data traceback.py bz2.py html pydoc_data tracemalloc.py cProfile.py tty.py calendar.py turtledemo cgitb.py imp.py re.py cdunk.py imp.py cdunk.py imp.py code.py imp.py codecs.py inspect.py runpy.py codecs.py io.py sched.py codeop.py secrets.py collections json selectors.py confige_3.6m_darwin signal.py colections contact the cole py sitte-packages contextlib.py confige_3.6m_darwin signal.py colections contact the cole py sitte-packages contextlib.py colections contact the cole py sitte cole py colections contact the cole py sitte cole py colections contact the cole		threading	a ny	
asyncore.py	asyncio	Ç	gettext.py	profile.py
base64.py	asyncore.py	Ç	-	pstats.py
bdb.py tokenize.py binhex.py trace.py heapq.py pyclbr.py trace.py bisect.py hmac.py traceback.py bz2.py html pydoc_data tracemalloc.py http queue.py tty.py importlib py typing.py importlib unittest code.py inspect.py uu.py codeop.py secrets.py collections pison venv configarser.py side.py configarser.py signal.py configarser.py site-packages contextlib.py libs.py tinecache.py webbrowser.py logging base heapq.py py pyclbr.py pyclbr.py pyclbr.py pydoc.py re.py queue.py random.py re.py random.py re.py reprlib.py sched.py sched.py sched.py sched.py sched.py shlex.py libedynload wave.py site-packages ontextlib.py locale.py site-packages contextlib.py logging	base64.py	g		pty.py
binhex.py trace.py trace.py bisect.py hmac.py traceback.py bydoc.py traceback.py btraceback.py btrac	bdb.py	h	hashlib.py	py_compile.py
bisect.py	binhex.py	ŀ		pyclbr.py
bz2.py html tracemalloc.py cProfile.py http calendar.py idlelib quopri.py cgi.py imaplib.py random.py turtledemo cgitb.py importlib reprile	bisect.py	h	• •	pydoc.py
cProfile.py tty.py calendar.py idlelib quopri.py turtle.py cgi.py imaplib.py random.py turtledemo cgitb.py imaplib.py re.py chunk.py importlib re.py cmd.py importlib recompleter.py unittest code.py inspect.py runpy.py codeop.py ipaddress.py secrets.py collections json selectors.py compileall.py shlex.py config-3.6m-darwin signal.py configparser.py site-packages contextlib.py typing.py importlib re.py re.py reprlib.py re.py reprlib.py re.py reprlib.py re.py reprlib.py re.py reprlib.py reprlib.py re.py reprlib.py re.py reprlib.py reprlib.py reprlib.py reprlib.py re.py reprlib.py reprlib.py reprlib.py re.py reprlib.py reprlib.py re.py re.py reprlib.py re.py re.py re.py re.py re.py shlex.py signal.py re.py lib-dynload weakref.py configparser.py signal.py re.py linecache.py signal.py re.py line.py	bz2.py	h	ntmĺ	pydoc_data
calendar.py idlelib quopri.py turtle.py cgi.py imaplib.py random.py turtledemo cgitb.py imghdr.py re.py chunk.py imp.py reprlib.py typing.py cmd.py importlib rlcompleter.py unittest code.py inspect.py runpy.py urllib codecs.py io.py sched.py secrets.py codeop.py secrets.py collections json selectors.py colorsys.py keyword.py shelve.py warnings.py compileall.py shlex.py config-3.6m-darwin linecache.py signal.py webbrowser.py configparser.py locale.py site-packages contextlib.py limportlib rlcompleter.py runpy.py reprlib.py repr	cProfile.py	ŀ		queue.py
cgi.py imaplib.py random.py turtledemo cgitb.py imghdr.py re.py types.py chunk.py imp.py reprlib.py typing.py cmd.py importlib rlcompleter.py unittest code.py inspect.py runpy.py urllib codecs.py io.py sched.py codeop.py ipaddress.py secrets.py uuid.py collections json selectors.py colorsys.py keyword.py shelve.py compileall.py shlex.py concurrent lib2to3 shutil.py configarser.py webbrowser.py configgarser.py locale.py site-packages wsgiref contextlib.py logging	calendar.py	j		quopri.py
cgitb.py imghdr.py re.py types.py chunk.py imp.py reprlib.py typing.py cmd.py importlib rlcompleter.py unittest code.py inspect.py runpy.py urllib codecs.py io.py sched.py codeop.py ipaddress.py secrets.py uuid.py collections json selectors.py venv colorsys.py keyword.py shelve.py warnings.py compileall.py lib-dynload shlex.py wave.py concurrent lib2to3 shutil.py config-3.6m-darwin linecache.py signal.py webbrowser.py configparser.py locale.py site-packages contextlib.py logging	cgi.py	j	imaplib.py	random.py
chunk.py imp.py reprlib.py typing.py cmd.py importlib rlcompleter.py unittest code.py inspect.py runpy.py urllib codecs.py io.py sched.py codeop.py ipaddress.py secrets.py uuid.py collections json selectors.py venv colorsys.py keyword.py shelve.py warnings.py compileall.py shex.py wave.py concurrent lib2to3 shutil.py weakref.py config-3.6m-darwin linecache.py signal.py webbrowser.py configparser.py site-packages contextlib.py logging	cgitb.py	j	imghdr.py	re.py
<pre>cmd.py importlib rlcompleter.py</pre>	chunk.py	j	imp.py	reprlib.py
codecs.py inspect.py runpy.py urllib codecs.py io.py sched.py codeop.py ipaddress.py secrets.py uuid.py collections json selectors.py venv colorsys.py keyword.py shelve.py compileall.py warnings.py compileall.py wave.py concurrent lib2to3 shutil.py weakref.py config-3.6m-darwin linecache.py signal.py webbrowser.py configparser.py site-packages contextlib.py logging	cmd.py	i	-	rlcompleter.py
codecs.py io.py sched.py codeop.py ipaddress.py secrets.py collections json selectors.py colorsys.py keyword.py shelve.py compileall.py lib-dynload shlex.py warnings.py concurrent lib2to3 shutil.py weakref.py config-3.6m-darwin linecache.py signal.py webbrowser.py configparser.py locale.py site-packages wsgiref contextlib.py logging	code.py	j	inspect.py	runpy.py
codeop.py ipaddress.py secrets.py uuid.py collections json selectors.py venv colorsys.py keyword.py shelve.py warnings.py compileall.py lib-dynload shlex.py wave.py concurrent lib2to3 shutil.py weakref.py config-3.6m-darwin linecache.py signal.py webbrowser.py configparser.py locale.py site-packages wsgiref contextlib.py logging	codecs.py	j	io.py	sched.py
collections json selectors.py venv colorsys.py keyword.py shelve.py warnings.py compileall.py lib-dynload shlex.py wave.py concurrent lib2to3 shutil.py weakref.py config-3.6m-darwin linecache.py signal.py webbrowser.py configparser.py locale.py site-packages wsgiref contextlib.py logging				
<pre>colorsys.py keyword.py shelve.py</pre>		-		selectors.py
<pre>compileall.py shlex.py concurrent</pre>	colorsys.py	k		shelve.py
concurrent lib2to3 shutil.py weakref.py config-3.6m-darwin linecache.py signal.py webbrowser.py configparser.py locale.py site-packages wsgiref contextlib.py logging		warnings	lib-dynload	
config-3.6m-darwin linecache.py signal.py webbrowser.py configparser.py locale.py site-packages wsgiref contextlib.py logging			lib2to3	shutil.py
confignarser.py locale.py site-packages wsgiref contextlib.py logging	_	win .	linecache.py	
contextlib.py logging	configparser.py	,	locale.py	
site.py xurtib.py				

zipfile.py

Install sh.py

ModuleNotFoundError: No module named 'sh'
Arkadiis-MacBook-Pro:testkivy ak\$ pip install sh
Collecting sh
Downloading https://files.pythonhosted.org/packages/4a/
22/17b22ef5b049f12080f5815c41bf94de3c229217609e469001a8f80c1b3d/
sh-1.12.14-py2.py3-none-any.whl
Installing collected packages: sh
Successfully installed sh-1.12.14
Arkadiis-MacBook-Pro:testkivy ak\$ python3
Python 3.6.6 (v3.6.6:4cf1f54eb7, Jun 26 2018, 19:50:54)
[GCC 4.2.1 Compatible Apple LLVM 6.0 (clang-600.0.57)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> import sh

ValueError: read of closed file, android-ndk-r9c-darwin-x86_64.tar.bz2

Android NDK is missing, downloading

Downloading http://dl.google.com/android/repository/androidndk-r9c-darwin-x86_64.tar.bz2

Traceback (most recent call last):

File "/Library/Frameworks/Python.framework/Versions/3.6/bin/buildozer", line 11, in <module>

load_entry_point('buildozer==0.37.dev0', 'console_scripts',
'buildozer')()

File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages/buildozer/scripts/client.py", line 13, in main

Buildozer().run command(sys.argv[1:])

File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages/buildozer/__init__.py", line 1059, in run_command

```
self.target.run commands(args)
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/target.py", line 92, in
run commands
    func(args)
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/target.py", line 102, in
cmd debug
    self.buildozer.prepare_for_build()
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/__init__.py", line 176, in
prepare for build
    self.target.install_platform()
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/targets/android.py", line 507,
in install platform
    self._install_android ndk()
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/targets/android.py", line 319,
in install android ndk
    cwd=self.buildozer.global platform dir)
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/_ init_.py", line 687, in
download
    urlretrieve(url, filename, report hook)
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/urllib/request.py", line 1819, in retrieve
    block = fp.read(bs)
  File "/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/tempfile.py", line 485, in func_wrapper
    return func(*args, **kwargs)
ValueError: read of closed file
```

As developer.android site lists versions of NDKs:

https://developer.android.com/ndk/downloads/older_releases

Android NDK, Revision 17c (June 2018)

```
Platfor Size m Size (Bytes SHA1 Checksum )
```

Window s 32-bit	android-ndk- r17c-windows- x86.zip	608358 310	5bb25bf13fa494ee6c3433474 c7aa90009f9f6a9
Window s 64-bit	android-ndk- r17c-windows- x86_64.zip	650626 501	3e3b8d1650f9d297d130be2b3 42db956003f5992
Mac OS X	android-ndk- r17c-darwin- x86_64.zip	675091 485	f97e3d7711497e3b4faf9e7b3f a0f0da90bb649c
Linux 64-bit (x86)	android-ndk- r17c-linux- x86_64.zip	709387 703	12cacc70c3fd2f40574015631c 00f41fb8a39048

Android NDK, Revision 16b (December 2017)

Platfor m	Package	Size (Bytes)	SHA1 Checksum
Window s 32-bit	android-ndk- r16b-windows- x86.zip	656720 029	becaf3d445a4877ca1a9300a6 2f0934a4838c7fa
Window s 64-bit	android-ndk- r16b-windows- x86_64.zip	723301 086	f3f1909ed1052e98dda2c79d1 1c22f3da28daf25
Mac OS X	android-ndk- r16b-darwin- x86_64.zip	839630 771	e51e615449b98c716cf912057 e2682e75d55e2de
Linux 64-bit (x86)	android-ndk- r16b-linux- x86_64.zip	852525 873	42aa43aae89a50d1c66c3f9fd ecd676936da6128

Android NDK, Revision 15c (July 2017)

Platfor m	Package	Size (Bytes)	SHA1 Checksum
Window s 32-bit	android-ndk- r15c-windows- x86.zip	784778 144	f2e47121feb73ec34ced5e947c bf1adc6b56246e
Window s 64-bit	android-ndk- r15c-windows- x86_64.zip	849733 996	970bb2496de0eada74674bb1 b06d79165f725696
Mac OS X	android-ndk- r15c-darwin- x86_64.zip	960251 267	ea4b5d76475db84745aa8828 000d009625fc1f98
Linux 64-bit (x86)	android-ndk- r15c-linux- x86_64.zip	974976 754	0bf02d4e8b85fd770fd7b9b2cd ec57f9441f27a2

Android NDK, Revision 14b (March 2017)

Platfor m	Package	Size (Bytes)	SHA1 Checksum
Window s 32-bit	android-ndk- r14b-windows- x86.zip	707533 928	070443eaa7fa37ed337f91c65 5e02ca708d37c92
Window s 64-bit	android-ndk- r14b-windows- x86_64.zip	769151 176	a625e8c599bccdb9061b61dcf 3d1f1a01071613f
Mac OS X	android-ndk- r14b-darwin- x86_64.zip	824705 073	2bf582c43f6da16416e66203d 158a6dfaba4277c

Linux	android-ndk-	840626	becd161da6ed9a823e25be5c
64-bit	r14b-linux-	594	02955d9cbca1dbeb
(x86)	x86_64.zip		

Android NDK, Revision 13b (October 2016)

Platfor m	Package	Size (Bytes)	SHA1 Checksum
Window s 32-bit	android-ndk- r13b-windows- x86.zip	620461 544	4eb1288b1d4134a9d6474eb2 47f0448808d52408
Window s 64-bit	android-ndk- r13b-windows- x86_64.zip	681320 123	649d306559435c244cec5881b 880318bb3dee53a
Mac OS X	android-ndk- r13b-darwin- x86_64.zip	665967 997	71fe653a7bf5db08c3af154735 b6ccbc12f0add5
Linux 64-bit (x86)	android-ndk- r13b-linux- x86_64.zip	687311 866	0600157c4ddf50ec15b8a037cf c474143f718fd0

Android NDK, Revision 12b (June 2016)

Platfor m	Package	Size (Bytes)	SHA1 Checksum
Window s 32-bit	android-ndk- r12b-windows- x86.zip	706453 972	8e6eef0091dac2f3c7a1ecbb7 070d4fa22212c04
Window s 64-bit	android-ndk- r12b-windows- x86_64.zip	749567 353	337746d8579a1c65e8a69bf9c bdc9849bcacf7f5

Mac OS X	android-ndk- r12b-darwin- x86_64.zip	734135 279	e257fe12f8947be9f79c10c3fff e87fb9406118a
Linux 64-bit (x86)	android-ndk- r12b-linux- x86_64.zip	755551 010	170a119bfa0f0ce5dc932405e aa3a7cc61b27694

Android NDK, Revision 11c (March 2016)

Platfor m	Package	Size (Bytes)	SHA1 Checksum
Window s 32-bit	android-ndk- r11c-windows- x86.zip	728899 082	ff939bde6cd374eecbd2c3b2a d218697f9a5038c
Window s 64-bit	android-ndk- r11c-windows- x86_64.zip	771407 642	3d89deb97b3191c7e5555f131 3ad35059479f071
Mac OS X	android-ndk- r11c-darwin- x86_64.zip	772428 792	4ce8e7ed8dfe08c5fe58aedf7f 46be2a97564696
Linux 64-bit (x86)	android-ndk- r11c-linux- x86_64.zip	794135 138	de5ce9bddeee16fb6af2b9117 e9566352aa7e279

Android NDK, Revision 10e (May 2015)

Platfor m	Package	Size (Bytes)	SHA1 Checksum
Window s 32-bit	android-ndk- r10e-windows- x86.zip	320504 3409	1d0b8f2835be741f3048fb03c0 a3e9f71ab7f357

Window s 64-bit	android-ndk- r10e-windows- x86_64.zip	500686 4954	a29f3ae41fb02b64ca8ad2b09 03f74356f953d9f
Mac OS X	android-ndk- r10e-darwin- x86_64.zip	353042 3262	6be8598e4ed3d9dd42998c8c b666f0ee502b1294
Linux 64-bit (x86)	android-ndk- r10e-linux- x86_64.zip	351471 4136	f692681b007071103277f6edc 6f91cb5c5494a32

... consider another way

Delete Buildozer from Master switch to Stable

Arkadiis-MacBook-Pro:testkivy ak\$ sudo pip uninstall https://github.com/kivy/buildozer/archive/master.zip
Password:

The directory '/Users/ak/Library/Caches/pip/http' or its parent directory is not owned by the current user and the cache has been disabled. Please check the permissions and owner of that directory. If executing pip with sudo, you may want sudo's -H flag.

You must give at least one requirement to uninstall (see "pip help uninstall")

Arkadiis-MacBook-Pro:testkivy ak\$ sudo pip uninstall buildozer The directory '/Users/ak/Library/Caches/pip/http' or its parent directory is not owned by the current user and the cache has been disabled. Please check the permissions and owner of that directory. If executing pip with sudo, you may want sudo's -H flag.

Uninstalling buildozer-0.37.dev0:

Would remove:

/Library/Frameworks/Python.framework/Versions/3.6/bin/buildozer

/Library/Frameworks/Python.framework/Versions/3.6/bin/buildozer-remote

/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages/buildozer-0.37.dev0-py3.6.egg-info

/Library/Frameworks/Python.framework/Versions/3.6/lib/
python3.6/site-packages/buildozer/*
Proceed (y/n)? y

Successfully uninstalled buildozer-0.37.dev0
Arkadiis-MacBook-Pro:testkivy ak\$ sudo pip install buildozer
The directory '/Users/ak/Library/Caches/pip/http' or its parent
directory is not owned by the current user and the cache has
been disabled. Please check the permissions and owner of that
directory. If executing pip with sudo, you may want sudo's -H
flag.

The directory '/Users/ak/Library/Caches/pip' or its parent directory is not owned by the current user and caching wheels has been disabled. check the permissions and owner of that directory. If executing pip with sudo, you may want sudo's -H flag.

Collecting buildozer

Downloading https://files.pythonhosted.org/packages/a7/2c/b98d30feaf26e44eb31a3a20428b6b179888b22b765e160aec6863c5c551/buildozer-0.36.tar.gz (93kB)

100% | 102kB 1.2MB/s
Requirement already satisfied: pexpect in /Library/Frameworks/
Python.framework/Versions/3.6/lib/python3.6/site-packages (from buildozer) (4.6.0)

Requirement already satisfied: virtualenv in /Library/ Frameworks/Python.framework/Versions/3.6/lib/python3.6/sitepackages (from buildozer) (16.1.0)

Requirement already satisfied: ptyprocess>=0.5 in /Library/ Frameworks/Python.framework/Versions/3.6/lib/python3.6/sitepackages (from pexpect->buildozer) (0.6.0)

Installing collected packages: buildozer

Running setup.py install for buildozer ... done Successfully installed buildozer-0.36

Seems to be downloading NDK 9c normally

About Known GOOD Sets SDK/NDK

Android SDK

This is a list of Android SDK with some informations useful for us to track the issues with buildozer or python-for-android. There is one rule to know: **never use latest SDK without newer NDK released**; This is due that NDK have a directory per API (android-20, android-21 etc..); If you use latest SDK, NDK will not

have the directory for it, therefore the compilation will not work.

- SDK 20: Current default for buildozer
- SDK 21/22 (TO FIX): New notification API, current pythonfor-android implementation doesn't work
- SDK 25: No more "android" tool, "sdkmanager" is the only entrypoint now for installating SDK. Both python-for-android and buildozer will not work.
- SDK 25.3.0: ant is removed. There is a branch "sdl2_gradle" that intent to have a bootstrap for sdl2 based on gradle.

Working SDK/NDK (KGS - Known Good Set)

- SDK 20 / NDK 9c
- SDK 20 / NDK 13b
- SDK 20 / CrystaX NDK 10.3.2
- SDK 20 / API 24 / NDK 14b / Python 3.7 (with PR https://github.com/kivy/python-for-android/pull/1412)
- SDK 20 / API 26 / NDK 15c / Python 3.7 (with PR https://github.com/kivy/python-for-android/pull/1412)
- SDK 24 / API 28 / NDK 17c / Python 2.7 (with PR https://github.com/kivy/python-for-android/pull/1381)

Error with no path /tools.save

pexpect.exceptions.ExceptionPexpect: The command was not found or was not executable: /Users/ak/.buildozer/android/platform/ android-sdk-20/tools.save/android.

Expected solution

/Users/ak/.buildozer/android/platform/android-sdk-20/ln -s tools tools.save

Didn't find any valid dependency graphs.

```
# Run '/Library/Frameworks/Python.framework/Versions/3.6/bin/
python3.6 -m pythonforandroid.toolchain create --dist name=myapp
--bootstrap=sdl2 --requirements=python3,kivy --arch armeabi-v7a
--copy-libs --color=always --storage-dir="/Users/ak/Documents/
projects/testkivy/.buildozer/android/platform/build"'
# Cwd /Users/ak/Documents/projects/testkivy/.buildozer/android/
platform/python-for-android-new-toolchain
           Will compile for the following archs: armeabi-v7a
[INFO]:
[INFO]:
           Found Android API target in $ANDROIDAPI
           Available Android APIs are (19)
[INFO]:
           Requested API target 19 is available, continuing.
[INFO]:
[INFO]:
           Found NDK dir in $ANDROIDNDK
[INFO]:
           Got NDK version from $ANDROIDNDKVER
[INFO]:
           Using Google NDK r9c
           Found virtualenv at /Library/Frameworks/
[INFO]:
Pvthon.framework/Versions/3.6/bin/virtualenv
           ccache is missing, the build will not be optimized in
[INFO]:
the future.
[INFO]:
           Found the following toolchain versions: ['4.6',
'4.8', 'clang3.3']
[INFO]:
           Picking the latest gcc toolchain, here 4.8
[WARNING]: Missing executable: autoconf is not installed
[WARNING]: Missing executable: automake is not installed
[WARNING]: Missing executable: libtoolize is not installed
           No existing dists meet the given requirements!
[INFO]:
           No dist exists that meets your requirements, so one
[INFO]:
will be built.
[ERROR]:
           Didn't find any valid dependency graphs.
[ERROR]:
           This means that some of your requirements pull in
conflicting dependencies.
[ERROR]:
           Exitina.
# Command failed: /Library/Frameworks/Python.framework/Versions/
3.6/bin/python3.6 -m pythonforandroid.toolchain create --
dist_name=myapp --bootstrap=sdl2 --requirements=python3,kivy --
arch armeabi-v7a --copy-libs --color=always --storage-dir="/
Users/ak/Documents/projects/testkivy/.buildozer/android/
platform/build"
# Buildozer failed to execute the last command
# The error might be hidden in the log above this error
# Please read the full log, and search for it before
# raising an issue with buildozer itself.
# In case of a bug report, please add a full log with log level
= 2
```

ssl.SSLError

ssl.SSLError: [SSL: CERTIFICATE_VERIFY_FAILED] certificate
verify failed (_ssl.c:841)

/Applications/Python\ 3.6/Install\ Certificates.command

Error python3crystax

[ERROR]: The python3crystax recipe can only be built when using the CrystaX NDK. Exiting.

Crystal and brew error

brew install crystax-ndk

Error: No available formula with the name "crystax-ndk"
It was migrated from homebrew/core to homebrew/cask.
You can access it again by running:
 brew tap homebrew/cask
And then you can install it by running:
 brew cask install crystax-ndk

Arkadiis-MacBook-Pro:testkivy ak\$ brew tap homebrew/cask Arkadiis-MacBook-Pro:testkivy ak\$ brew cask install crystax-ndk ==> Caveats You may want to add to your profile: 'export ANDROID_NDK_HOME="/usr/local/share/crystax-ndk"' ==> Satisfying dependencies ==> Downloading https://www.crystax.net/download/crystaxndk-10.3.2-darwin-x86 64.tar.xz ###### 100.0% ==> Verifying SHA-256 checksum for Cask 'crystax-ndk'. ==> Installing Cask crystax-ndk ==> Linking Binary 'ndk exec.sh' to '/usr/local/bin/ndk-build'. ==> Linking Binary 'ndk exec.sh' to '/usr/local/bin/ndkdepends'. ==> Linking Binary 'ndk_exec.sh' to '/usr/local/bin/ndk-gdb'. ==> Linking Binary 'ndk_exec.sh' to '/usr/local/bin/ndk-stack'.

==> Linking Binary 'ndk_exec.sh' to '/usr/local/bin/ndk-which'.

to crystax-ndk was successfully installed!

Error python versions used by bulldozer 3.5 instead installed 3.6 sh.CommandNotFound: python3.5

requirements = python3crystax==3.6

Error vidcore_lite cimported module has no attribute 'BCMDisplayException

vidcore_lite/egl.pyx:619:17: cimported module has no attribute
'BCMDisplayException

Arkadiis-MacBook-Pro:testkivy ak\$ which cython /Library/Frameworks/Python.framework/Versions/3.6/bin/cython Arkadiis-MacBook-Pro:testkivy ak\$ cython -V Cython version 0.26.1

p4a.branch = master NO
Or
pip install 'cython == 0.25' still waiting, but passes this step
??

Error Could not determine java version from '11.0.1'

Install Java8 <- possible solution
 or
Install Gradle</pre>

brew tap caskroom/versions
brew cask install java8

brew install gradle - installed cradle 5 but unseccessful

p4a.branch = master not an option

Switching Java Versions

Arkadiis-MacBook-Pro:testkivy ak\$ /usr/libexec/java_home -V Matching Java Virtual Machines (2):

11.0.1, x86_64: "Java SE 11.0.1" /Library/Java/JavaVirtualMachines/jdk-11.0.1.jdk/Contents/Home 1.8.0_192, x86_64: "Java SE 8" /Library/Java/JavaVirtualMachines/jdk1.8.0_192.jdk/Contents/Home

/Library/Java/JavaVirtualMachines/jdk-11.0.1.jdk/Contents/Home Arkadiis-MacBook-Pro:testkivy ak\$ export JAVA_HOME=`/usr/

```
libexec/java_home -v 1.8`
Arkadiis-MacBook-Pro:testkivy ak$ java -version
java version "1.8.0 192"
Java(TM) SE Runtime Environment (build 1.8.0_192-b12)
Java HotSpot(TM) 64-Bit Server VM (build 25.192-b12, mixed mode)
DONE!
Error while compiling Could not determine java version from
'11.0.1'.
FAILURE: Build failed with an exception.
* What went wrong:
Could not determine java version from '11.0.1'.
Apply this
export JAVA_HOME=`/usr/libexec/java_home -v 1.8`
Error unknown file type '.pxi'
/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/
site-packages/setuptools/dist.py:397: UserWarning: Normalizing
'1.1.2-dev' to '1.1.2.dev0'
  normalized version.
running build ext
Warning: Extension name 'jnius' does not match fully qualified
name 'jnius.jnius' of 'jnius/jnius.pyx'
Compiling jnius/jnius.pyx because it depends on jnius/
config.pxi.
[1/1] Cythonizing jnius/jnius.pyx
building 'inius' extension
error: unknown file type '.pxi' (from 'jnius/jni.pxi')
pip3 install cython==0.26 and added kivy==master to the spec file
Or pip3 install cython==0.25.2 and added kivy==master to the spec file
requirements = python3crystax==3.6,kivy
```

Error kivy app DO NOTHING controls are OK but robot sees NO COMMANDS

Set in spec file:

```
# (list) Permissions
android.permissions = INTERNET
```

After Xcode installed PyCharm asks for Accepting Xcode/IOS license to run Git

Run sudo xcodebuild -license sudo xcodebuild -license

Add device

ld:

e1b1b040a6abd4a5b4f34c18eab7bb34fab1e8df

SN:

DX3PHKZXFF9R

Kivy for iOS

https://github.com/kivy/kivy-ios

Arkadiis-MacBook-Pro:~ ak\$
Arkadiis-MacBook-Pro:~ ak\$ cd Documents/
Arkadiis-MacBook-Pro:Documents ak\$ cd projects/
Arkadiis-MacBook-Pro:projects ak\$ brew install python

Python has been installed as
 /usr/local/bin/python3

Unversioned symlinks `python`, `python-config`, `pip` etc.
pointing to
`python3`, `python3-config`, `pip3` etc., respectively, have
been installed into
 /usr/local/opt/python/libexec/bin

If you need Homebrew's Python 2.7 run

```
brew install python@2
You can install Python packages with
  pip3 install <package>
They will install into the site-package directory
  /usr/local/lib/python3.7/site-packages
See: https://docs.brew.sh/Homebrew-and-Python
==> Summary
/usr/local/Cellar/python/3.7.2 1: 3,833 files, 59.3MB
..download and extract
https://github.com/kivy/kivy-ios.git
Into cd projects/
Arkadiis-MacBook-Pro:projects ak$ cd kivy-ios-master/
Collecting pbxproj==2.5.1 (from -r requirements.txt (line 1))
  Downloading https://files.pythonhosted.org/packages/7f/0e/
042142a3753284d7775afc12b1df7374610e693c1c21536d6ceeb212f55d/
pbxproj-2.5.1.tar.gz
Collecting openstep parser>=1.3.1 (from pbxproj==2.5.1->-r
requirements.txt (line 1))
  Downloading https://files.pythonhosted.org/packages/d1/43/
acaccb0c00e2b23fc02d5c02051c26dff7fe61d151acc8486ba60bd3bff7/
openstep parser-1.3.1.tar.gz
Collecting docopt (from pbxproj==2.5.1->-r requirements.txt
(line 1))
  Downloading https://files.pythonhosted.org/packages/
a2/55/8f8cab2afd404cf578136ef2cc5dfb50baa1761b68c9da1fb1e4eed343
c9/docopt-0.6.2.tar.gz
Collecting future (from pbxproj==2.5.1->-r requirements.txt
(line 1))
  Downloading https://files.pythonhosted.org/packages/90/52/
e20466b85000a181e1e144fd8305caf2cf475e2f9674e797b222f8105f5f/
future-0.17.1.tar.gz (829kB)
    100%
                                      829kB 912kB/s
Installing collected packages: future, openstep-parser, docopt,
pbxproj
```

Running setup.py install for future ... done

Running setup.py install for docopt ... done Running setup.py install for pbxproj ... done

Running setup.py install for openstep-parser ... done

Successfully installed docopt-0.6.2 future-0.17.1 openstep-

parser-1.3.1 pbxproj-2.5.1 You are using pip version 18.1, however version 19.0.1 is available. You should consider upgrading via the 'pip install --upgrade pip' command. Arkadiis-MacBook-Pro:kivy-ios-master ak\$ xcode-select --install xcode-select: error: command line tools are already installed, use "Software Update" to install updates Arkadiis-MacBook-Pro:kivy-ios-master ak\$ xcode-select --print-/Applications/Xcode.app/Contents/Developer Arkadiis-MacBook-Pro:kivy-ios-master ak\$ brew install autoconf automake libtool pkg-config Updating Homebrew... ==> Auto-updated Homebrew! Updated 1 tap (homebrew/core). ==> Updated Formulae opam verilator Warning: autoconf 2.69 is already installed and up-to-date To reinstall 2.69, run 'brew reinstall autoconf' Warning: automake 1.16.1 1 is already installed and up-to-date To reinstall 1.16.1_1, run `brew reinstall automake` Warning: libtool 2.4.6_1 is already installed and up-to-date To reinstall 2.4.6_1, run `brew reinstall libtool` Warning: pkg-config 0.29.2 is already installed and up-to-date To reinstall 0.29.2, run `brew reinstall pkg-config` Arkadiis-MacBook-Pro:kivy-ios-master ak\$ Arkadiis-MacBook-Pro:kivy-ios-master ak\$ brew link libtool Warning: Already linked: /usr/local/Cellar/libtool/2.4.6 1 To relink: brew unlink libtool && brew link libtool Arkadiis-MacBook-Pro:kivy-ios-master ak\$ pip install cvthon==0.28.1Collecting cython==0.28.1 Downloading https://files.pythonhosted.org/packages/dd/1f/ fbc379eeb53eedbff12d0623a154902c06ac6a386830cdc30d4ccb874453/ Cython-0.28.1-cp36-cp36mmacosx_10_6_intel.macosx_10_9_intel.macosx_10_9_x86_64.macosx_10 10 intel.macosx 10 10 x86 64.whl (5.2MB)

5.2MB 824kB/s

Installing collected packages: cython
Found existing installation: Cython 0.25.2

100% |

Uninstalling Cython-0.25.2: Successfully uninstalled Cython-0.25.2 Successfully installed cython-0.28.1

Arkadiis-MacBook-Pro:kivy-ios-master ak\$ ls toolchain.py toolchain.py

cython.py

```
Error pbxproj requirements is missing
Arkadiis-MacBook-Pro:kivy-ios-master ak$ ./toolchain.py build
python3 kivy
ERROR: pbxproj requirements is missing
To install: pip install -r requirements.txt
Arkadiis-MacBook-Pro:kivy-ios-master ak$ which python3
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3
Arkadiis-MacBook-Pro:kivy-ios-master ak$ pip3 install -r
requirements.txt
Requirement already satisfied: pbxproj==2.5.1 in /Library/
Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-
packages (from -r requirements.txt (line 1)) (2.5.1)
Requirement already satisfied: openstep_parser>=1.3.1 in /
Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/
site-packages (from pbxproj==2.5.1->-r requirements.txt (line
1)) (1.3.1)
Requirement already satisfied: docopt in /Library/Frameworks/
Python.framework/Versions/3.6/lib/python3.6/site-packages (from
pbxproj==2.5.1->-r requirements.txt (line 1)) (0.6.2)
Requirement already satisfied: future in /Library/Frameworks/
Python.framework/Versions/3.6/lib/python3.6/site-packages (from
pbxproj==2.5.1->-r requirements.txt (line 1)) (0.17.1)
Arkadiis-MacBook-Pro: Versions ak$ cd /Library/Frameworks/
Python.framework/Versions/3.6/lib/python3.6/site-packages
Arkadiis-MacBook-Pro:site-packages ak$ ls
                       openstep_parser-1.3.1-py3.6.egg-info
Cvthon
Cython-0.28.1.dist-info
                               past
Kivy_Garden-0.1.4-py3.6.egg-info
                                   pbxproi
README.txt
                       pbxproj-2.5.1-py3.6.egg-info
 pycache
                       pexpect
                       pexpect-4.6.0.dist-info
buildozer
buildozer-0.36-py3.6.egg-info
                                   pip
                       pip-19.0.1.dist-info
certifi
certifi-2018.10.15.dist-info
                                   pkg_resources
chardet
                       ptyprocess
chardet-3.0.4.dist-info
                               ptyprocess-0.6.0.dist-info
```

pyximport

```
docopt-0.6.2-py3.6.egg-info requests
```

docopt.py requests-2.20.1.dist-info

easy_install.py setuptools

future setuptools-39.0.1.dist-info future-0.17.1-py3.6.egg-info sh-1.12.14.dist-info

garden sh.py idna urllib3

libpasteurize virtualenv.py openstep_parser virtualenv_support

Workaround:

As toolchain.py does Not explicitly aim python version in #!/usr/bin/env python

Should start as

python3./toolchain.py build python3 kivy

Error /bin/sh: python3.7: command not found
generate-posix-vars failed

More:

Arkadiis-MacBook-Pro:kivy-ios-master ak\$ brew install python3 Updating Homebrew...

==> Auto-updated Homebrew!

Updated 2 taps (homebrew/core and homebrew/cask).

==> Updated Formulae

tintin

Warning: python 3.7.2_1 is already installed, it's just not linked

You can use `brew link python` to link this version.

Workaround

Arkadiis-MacBook-Pro:kivy-ios-master ak\$ brew link python Linking /usr/local/Cellar/python/3.7.2_1...

Error: Could not symlink bin/2to3

Target /usr/local/bin/2to3

already exists. You may want to remove it:
 rm '/usr/local/bin/2to3'

To force the link and overwrite all conflicting files:

```
To list all files that would be deleted:
  brew link --overwrite --dry-run python
Arkadiis-MacBook-Pro:kivy-ios-master ak$
Arkadiis-MacBook-Pro:kivy-ios-master ak$
Arkadiis-MacBook-Pro:kivy-ios-master ak$ To list all files that
would be deleted:
-bash: To: command not found
Arkadiis-MacBook-Pro:kivy-ios-master ak$
                                           brew link --overwrite
--dry-run python
Would remove:
/usr/local/bin/2to3 -> /Library/Frameworks/Python.framework/
Versions/3.6/bin/2to3
/usr/local/bin/idle3 -> /Library/Frameworks/Python.framework/
Versions/3.6/bin/idle3
/usr/local/bin/pydoc3 -> /Library/Frameworks/Python.framework/
Versions/3.6/bin/pydoc3
/usr/local/bin/python3 -> /Library/Frameworks/Python.framework/
Versions/3.6/bin/python3
/usr/local/bin/python3-config -> /Library/Frameworks/
Python.framework/Versions/3.6/bin/python3-config
/usr/local/bin/pyvenv -> /Library/Frameworks/Python.framework/
Versions/3.6/bin/pyvenv
Arkadiis-MacBook-Pro:kivy-ios-master ak$ brew link --overwrite
--dry-run python
Would remove:
/usr/local/bin/2to3 -> /Library/Frameworks/Python.framework/
Versions/3.6/bin/2to3
/usr/local/bin/idle3 -> /Library/Frameworks/Python.framework/
Versions/3.6/bin/idle3
/usr/local/bin/pydoc3 -> /Library/Frameworks/Python.framework/
Versions/3.6/bin/pydoc3
/usr/local/bin/python3 -> /Library/Frameworks/Python.framework/
Versions/3.6/bin/python3
/usr/local/bin/python3-config -> /Library/Frameworks/
Python.framework/Versions/3.6/bin/python3-config
/usr/local/bin/pyvenv -> /Library/Frameworks/Python.framework/
Versions/3.6/bin/pyvenv
Arkadiis-MacBook-Pro:kivy-ios-master ak$ brew link --overwrite
python
Linking /usr/local/Cellar/python/3.7.2_1... 24 symlinks created
```

...

```
build python3 kivy
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/
copying examples/tutorials/pong/pong.kv -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/tutorials/pong
copying examples/tutorials/pong/main.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/tutorials/pong
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/
pong/steps
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/
pong/steps/step4
copying examples/tutorials/pong/steps/step4/pong.kv -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/pong/steps/
step4
copying examples/tutorials/pong/steps/step4/main.py -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/pong/steps/
step4
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/
pong/steps/step3
copying examples/tutorials/pong/steps/step3/pong.kv -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/pong/steps/
step3
copying examples/tutorials/pong/steps/step3/main.py -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/pong/steps/
step3
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/
```

Arkadiis-MacBook-Pro:kivy-ios-master ak\$ python3 ./toolchain.py

```
pong/steps/step2
copying examples/tutorials/pong/steps/step2/pong.kv -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/pong/steps/
step2
copying examples/tutorials/pong/steps/step2/main.py -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/pong/steps/
step2
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/
pong/steps/step5
copying examples/tutorials/pong/steps/step5/pong.kv -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/pong/steps/
step5
copying examples/tutorials/pong/steps/step5/main.py -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/pong/steps/
step5
creating /Users/ak/Documents/projects/kivv-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/
pong/steps/step1
copying examples/tutorials/pong/steps/step1/pong.kv -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/pong/steps/
step1
copying examples/tutorials/pong/steps/step1/main.py -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/pong/steps/
step1
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/
notes
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/
notes/final
copying examples/tutorials/notes/final/note.kv -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/notes/final
copying examples/tutorials/notes/final/main.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/notes/final
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/
notes/final/data
copying examples/tutorials/notes/final/data/icon.png -> /Users/
```

```
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/tutorials/notes/final/
data
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/shader
copying examples/shader/rotated.kv -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/shader
copying examples/shader/plasma.kv -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/shader
copying examples/shader/rotated.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/shader
copying examples/shader/plasma.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/shader
copying examples/shader/shadertree.kv -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/shader
copving examples/shader/shadertree.pv -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/shader
copying examples/shader/tex3.jpg -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/shader
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/application
copying examples/application/app with kv in template1.py -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/application
copying examples/application/app suite.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/application
copying examples/application/test.kv -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/application
copying examples/application/app_with_build.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/application
copying examples/application/app_with_config.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/application
copying examples/application/testkvfile.kv -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/application
copying examples/application/app_with_kv.py -> /Users/ak/
```

```
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/application
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/
application/app suite data
copying examples/application/app_suite_data/testkvdir.kv -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/application/
app suite data
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/
application/template1
copying examples/application/template1/test.kv -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/application/template1
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivv/x86 64/kivv-1.10.1/iosbuild/share/kivv-examples/kinect
copying examples/kinect/kinectviewer.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/kinect
copving examples/kinect/README.txt -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/kinect
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/frameworks
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/frameworks/
twisted
copying examples/frameworks/twisted/twistd app.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/frameworks/twisted
copying examples/frameworks/twisted/echo client app.py -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/frameworks/twisted
copying examples/frameworks/twisted/echo server app.py -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/frameworks/twisted
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/RST Editor
copying examples/RST_Editor/main.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/RST Editor
copying examples/RST_Editor/editor.kv -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/RST_Editor
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets
```

```
copying examples/widgets/screenmanager.pv -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/pagelayout.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/lang dynamic classes.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/cityCC0.png -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/carousel buttons.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/colorusage.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/effectwidget.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivv-examples/widgets
copying examples/widgets/colorpicker.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/keyboardlistener.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/actionbar.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/fbowidget.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/codeinputtest.kv -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/cityCC0.mpg -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/label mipmap.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/videoplayer.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/asyncimage.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
```

```
share/kivy-examples/widgets
copying examples/widgets/effectwidget2.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/bubble test.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/splitter.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/unicode textinput.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/shorten text.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/textinput.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/image mipmap.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/tabbed panel showcase.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/customcollide.pv -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/camera.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/scatter.kv -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/scrollview.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/scatter.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/effectwidget3_advanced.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/focus_behavior.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/label with markup.py -> /Users/ak/
```

```
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/boxlayout poshint.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/scrollview.kv -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/popup with kv.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/settings.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/rstexample.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/spinner.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copving examples/widgets/textalign.kv -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/codeinput.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/label text size.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/accordion_1.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/textalign.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/compound selection.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets
copying examples/widgets/tabbedpanel.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
copying examples/widgets/label sizing.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/widgets
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced images
```

```
copying examples/widgets/sequenced images/android.txt -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced images
copying examples/widgets/sequenced images/main.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced_images
copying examples/widgets/sequenced images/main.kv -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced images
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced images/uix
copying examples/widgets/sequenced images/uix/custom button.py -
> /Users/ak/Documents/projects/kivv-ios-master/build/kivv/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced images/uix
copying examples/widgets/sequenced images/uix/_ init_.py -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced_images/uix
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced_images/data
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced images/data/images
copying examples/widgets/sequenced_images/data/images/info.png -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced images/data/images
copying examples/widgets/sequenced_images/data/images/
button white animated.zip -> /Users/ak/Documents/projects/kivy-
ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-
examples/widgets/sequenced_images/data/images
copying examples/widgets/sequenced_images/data/images/
simple cv joint animated.gif -> /Users/ak/Documents/projects/
kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/share/
kivy-examples/widgets/sequenced_images/data/images
copying examples/widgets/sequenced_images/data/images/bird.zip -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced_images/data/images
copying examples/widgets/sequenced images/data/images/cube.zip -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
```

```
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced_images/data/images
copying examples/widgets/sequenced images/data/images/
button_white.png -> /Users/ak/Documents/projects/kivy-ios-
master/build/kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-
examples/widgets/sequenced_images/data/images
copying examples/widgets/sequenced images/data/images/info.zip -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
sequenced images/data/images
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
lists
copying examples/widgets/lists/fruit detail view.py -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list simple in kv 2.py -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list_master_detail.py -> /Users/
ak/Documents/projects/kivv-ios-master/build/kivv/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list_reset_data.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list simple.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list composite.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list cascade images.py -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list ops.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list_cascade.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list_kv.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list_two_up.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/fixtures.py -> /Users/ak/
```

```
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list cascade dict.py -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
copying examples/widgets/lists/list_simple_in_kv.py -> /Users/
ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
lists/fruit images
copying examples/widgets/lists/fruit_images/Cantaloupe.128.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Plum.512.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Peach.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit_images/Kiwifruit.32.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Watermelon.32.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Avocado.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Pear.256.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Honeydew.256.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Lime.256.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
```

```
copying examples/widgets/lists/fruit images/Orange.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Plum.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Cantaloupe.512.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Strawberry.64.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Peach.512.ipg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Avocado.512.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Strawberry.512.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Nectarine.512.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Plum.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Banana.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Strawberry.128.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Nectarine.128.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
```

```
fruit images
copying examples/widgets/lists/fruit_images/Lemon.256.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Avocado.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Tangerine.256.jpg -
> /Users/ak/Documents/projects/kivv-ios-master/build/kivv/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Cherry.256.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Watermelon.128.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Grapefruit.32.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Orange.256.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Apple.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Tangerine.64.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit_images/Peach.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Lemon.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Pineapple.64.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
```

```
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Nectarine.64.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Apple.256.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Watermelon.512.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Grapefruit.256.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Cherry.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Kiwifruit.512.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Banana.512.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Cantaloupe.32.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Pineapple.256.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Pear.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Banana.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Kiwifruit.128.jpg -
```

```
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Grape.256.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Lime.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Grape.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Honeydew.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Kiwifruit.64.jpg -
> /Users/ak/Documents/projects/kivv-ios-master/build/kivv/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit_images/Apple.512.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Watermelon.64.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Avocado.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Watermelon.256.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Orange.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Orange.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
```

```
copying examples/widgets/lists/fruit images/Orange.512.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Apple.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Strawberry.32.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Grape.512.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Pineapple.128.ipg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Grapefruit.128.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Plum.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Banana.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Grapefruit.512.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Kiwifruit.256.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Banana.256.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Pineapple.512.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
```

```
fruit images
copying examples/widgets/lists/fruit_images/Grape.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Pear.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Grapefruit.64.jpg -
> /Users/ak/Documents/projects/kivv-ios-master/build/kivv/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Lime.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Honeydew.128.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Cantaloupe.256.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Apple.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Tangerine.32.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Peach.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Lemon.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Peach.256.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Pineapple.32.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
```

```
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Plum.256.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit images/Nectarine.32.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Pear.512.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Honeydew.512.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Lime.512.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Cherry.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Lemon.512.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Cantaloupe.64.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/
fruit image attribution.txt -> /Users/ak/Documents/projects/
kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/share/
kivy-examples/widgets/lists/fruit_images
copying examples/widgets/lists/fruit images/Tangerine.512.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Cherry.512.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Avocado.256.jpg -> /
```

```
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Pear.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Lime.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Grape.32.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Cherry.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit_images/Tangerine.128.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit_images
copying examples/widgets/lists/fruit_images/Strawberry.256.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Lemon.128.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Honeydew.64.jpg -> /
Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
copying examples/widgets/lists/fruit images/Nectarine.256.jpg -
> /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/lists/
fruit images
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/widgets/
recycleview
copying examples/widgets/recycleview/basic data.py -> /Users/ak/
Documents/projects/kivy-ios-master/build/kivy/x86 64/
kivy-1.10.1/iosbuild/share/kivy-examples/widgets/recycleview
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/keyboard
```

```
copying examples/keyboard/android.txt -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/keyboard
copying examples/keyboard/main.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86 64/kivy-1.10.1/iosbuild/
share/kivy-examples/keyboard
copying examples/keyboard/numeric.json -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/keyboard
creating /Users/ak/Documents/projects/kivy-ios-master/build/
kivy/x86 64/kivy-1.10.1/iosbuild/share/kivy-examples/cover
copying examples/cover/cover_image.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/cover
copying examples/cover/cover video.py -> /Users/ak/Documents/
projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/
share/kivy-examples/cover
running install_egg_info
Writing /Users/ak/Documents/projects/kivy-ios-master/build/kivy/
x86 64/kivy-1.10.1/iosbuild/lib/python3.7/site-packages/
Kivy-1.10.1-py3.7.egg-info
```

This step seem to be passed ...

Try to Create the Xcode project

Arkadiis-MacBook-Pro:kivy-ios-master ak\$ python3 ./toolchain.py usage: toolchain <command> [<args>]

Available commands:

build Build a recipe (compile a library for the

required target

architecture)

clean Clean the build of the specified recipe

distclean Clean the build and the result recipes List all the available recipes

status List all the recipes and their build status

Xcode:

create Create a new xcode project

```
update
libraries..)

launchimage
icon
pip
Update an existing xcode project (frameworks,
libraries.code project (frameworks))
launchimage (frameworks)
libraries.code project (frameworks))
libraries.code project (frameworks)
libraries.code project (frameworks))
libraries.code project (frameworks))
libraries.code project (frameworks))
libraries.code project (frameworks)
libraries.code project (frameworks))
libraries.code project (frameworks))
libraries.code project (frameworks))
libraries.code project (frameworks))
libraries.code project (frameworks)
libraries.code project (frameworks))
libraries.code project (frameworks)
libraries.code project (frameworks))
libraries.code project (frameworks)
libraries.code
```

Try some demos ...

/Users/ak/Documents/projects/kivy-ios-master/build/kivy/x86_64/kivy-1.10.1/iosbuild/share/kivy-examples/demo/touchtracer

Touchtracer compiled to emulator - OK

include-system-site-packages = true

Testing environment

home = /usr/local/bin

version = 3.6.6

python3.6

python3.6-config

/Users/ak/Documents/projects/micropython-robot/venv

```
Arkadiis-MacBook-Pro:kivy-ios-master ak$ cd /usr/local/bin/
Arkadiis-MacBook-Pro:bin ak$ ls -a pyth*
python3
               python3.6-config
                                  python3.7
   python3.7m-config
python3-config
                  python3.6m
                                  python3.7-config
               python3.6m-config
                                  python3.7m
python3.6
Arkadiis-MacBook-Pro:bin ak$ ls -la pyth*
                   admin 36 Jan 31 00:26 python3 -> ../Cellar/
lrwxr-xr-x 1 ak
python/3.7.2 1/bin/python3
lrwxr-xr-x 1 ak
                   admin 43 Jan 31 00:26 python3-config -> ../
Cellar/python/3.7.2 1/bin/python3-config
lrwxr-xr-x 1 root wheel 71 Nov 16 18:49 python3.6 -
> ../../Library/Frameworks/Python.framework/Versions/3.6/bin/
```

lrwxr-xr-x 1 root wheel 78 Nov 16 18:49 python3.6-config > ../../Library/Frameworks/Python.framework/Versions/3.6/bin/

> ../../Library/Frameworks/Python.framework/Versions/3.6/bin/

lrwxr-xr-x 1 root wheel 72 Nov 16 18:49 python3.6m -

```
python3.6m
lrwxr-xr-x 1 root wheel 79 Nov 16 18:49 python3.6m-config -
> ../../Library/Frameworks/Python.framework/Versions/3.6/bin/
python3.6m-config
lrwxr-xr-x 1 ak
                          38 Jan 31 00:26 python3.7 -> ../
                   admin
Cellar/python/3.7.2_1/bin/python3.7
lrwxr-xr-x 1 ak
                   admin 45 Jan 31 00:26 python3.7-config -
> ../Cellar/python/3.7.2_1/bin/python3.7-config
                  admin 39 Jan 31 00:26 python3.7m -> ../
lrwxr-xr-x 1 ak
Cellar/python/3.7.2 1/bin/python3.7m
                   admin 46 Jan 31 00:26 python3.7m-config -
lrwxr-xr-x 1 ak
> ../Cellar/python/3.7.2_1/bin/python3.7m-config
```

Adding kivy to python3.7 installation

Arkadiis-MacBook-Pro:kivy-ios-master ak\$ brew install pkg-config sdl2 sdl2_image sdl2_ttf sdl2_mixer gstreamer Updating Homebrew...

==> Auto-updated Homebrew!

Updated 3 taps (homebrew/cask-versions, homebrew/core and homebrew/cask).

==> Updated Formulae

cryfs	kakoune	meson	packer
ruby-build	ship	topgrade	urbit
youtube-dl	·		
enet	logtalk	mogenerator	ruby
sbcl	skaffold	ucloud	v8
zsh			

Warning: pkg-config 0.29.2 is already installed and up-to-date To reinstall 0.29.2, run `brew reinstall pkg-config` Warning: sdl2_image 2.0.4 is already installed and up-to-date To reinstall 2.0.4, run `brew reinstall sdl2_image` Warning: sdl2_ttf 2.0.14 is already installed and up-to-date To reinstall 2.0.14, run `brew reinstall sdl2_ttf` Warning: sdl2_mixer 2.0.4 is already installed and up-to-date To reinstall 2.0.4, run `brew reinstall sdl2_mixer` Warning: gstreamer 1.14.4 is already installed and up-to-date To reinstall 1.14.4, run `brew reinstall gstreamer` Error: sdl2 2.0.8 is already installed
To upgrade to 2.0.9, run `brew upgrade sdl2`

>>

This seems to be done wrong:

```
Arkadiis-MacBook-Pro:kivy-ios-master ak$ pip install https://
qithub.com/kivy/kivy/archive/master.zip
Collecting https://github.com/kivy/kivy/archive/master.zip
  Downloading https://github.com/kivy/kivy/archive/master.zip
     - 41.1MB 2.2MB/s
Requirement already satisfied: Kivy-Garden>=0.1.4 in /Library/
Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-
packages (from Kivy==1.11.0.dev0) (0.1.4)
Collecting docutils (from Kivy==1.11.0.dev0)
  Using cached https://files.pythonhosted.org/packages/36/fa/
08e9e6e0e3cbd1d362c3bbee8d01d0aedb2155c4ac112b19ef3cae8eed8d/
docutils-0.14-py3-none-any.whl
Collecting pygments (from Kivy==1.11.0.dev0)
  Downloading https://files.pythonhosted.org/packages/13/
e5/6d710c9cf96c31ac82657bcfb441df328b22df8564d58d0c4cd62612674c/
Pygments-2.3.1-py2.py3-none-any.whl (849kB)
    100% I
                                          ll 849kB 1.8MB/s
Requirement already satisfied: requests in /Library/Frameworks/
Python.framework/Versions/3.6/lib/python3.6/site-packages (from
Kivy-Garden>=0.1.4->Kivy==1.11.0.dev0) (2.20.1)
Requirement already satisfied: certifi>=2017.4.17 in /Library/
Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-
packages (from requests->Kivy-Garden>=0.1.4->Kivy==1.11.0.dev0)
(2018.10.15)
Requirement already satisfied: urllib3<1.25,>=1.21.1 in /
Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/
site-packages (from requests->Kivy-Garden>=0.1.4-
>Kivy==1.11.0.dev0) (1.24.1)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /
Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/
site-packages (from requests->Kivy-Garden>=0.1.4-
>Kivy==1.11.0.dev0) (3.0.4)
Requirement already satisfied: idna<2.8,>=2.5 in /Library/
Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-
packages (from requests->Kivy-Garden>=0.1.4->Kivy==1.11.0.dev0)
(2.7)
Installing collected packages: docutils, pygments, Kivy
  Running setup.py install for Kivy ... done
Successfully installed Kivy-1.11.0.dev0 docutils-0.14
pygments-2.3.1
>>
```

```
firmware-app/testing/tester-084-086/DriftBuggy08/main.py
Traceback (most recent call last):
 File "/Users/ak/Documents/projects/micropython-robot/async-firmware-app/
testing/tester-084-086/DriftBuggy08/main.py", line 59, in <module>
  from kivy.app import App
ModuleNotFoundError: No module named 'kivy'
Error No module named 'Cython'
Arkadiis-MacBook-Pro:kivy-ios-master ak$ python3.7 -m pip
install https://github.com/kivy/kivy/archive/master.zip
Collecting https://github.com/kivy/kivy/archive/master.zip
  Downloading https://github.com/kivy/kivy/archive/master.zip
     - 41.1MB 820kB/s
    Complete output from command python setup.py egg info:
    Using distutils
    Cython is missing, it's required for compiling kivy!
    Traceback (most recent call last):
      File "<string>", line 1, in <module>
      File "/private/var/folders/ n/
ndycw_zx7kb8ggy9kgwl3mnr0000gn/T/pip-reg-build-ino69cab/
setup.py", line 235, in <module>
        from Cython.Distutils import build_ext
    ModuleNotFoundError: No module named 'Cvthon'
Command "python setup.py egg_info" failed with error code 1 in /
private/var/folders/ n/ndycw zx7kb8ggy9kgwl3mnr0000gn/T/pip-req-
build-ino69cab/
Try..
Arkadiis-MacBook-Pro:kivy-ios-master ak$ python3.7 -m pip
install Cython==0.28.5
Collecting Cython==0.28.5
  Downloading https://files.pythonhosted.org/packages/e3/bb/
d43cf512f7ee32653d8e3ae8dbb71f111096a8a16c1176128915de1a3ff5/
Cython-0.28.5-cp37-cp37m-
macosx 10 6 intel.macosx 10 9 intel.macosx 10 9 x86 64.macosx 10
_10_intel.macosx_10_10_x86_64.whl (5.3MB)
    100% |
                                          5.3MB 1.2MB/s
Installing collected packages: Cython
Successfully installed Cython-0.28.5
```

Seems to be done with kivy installation ...

```
Arkadiis-MacBook-Pro:kivy-ios-master ak$ python3.7 -m pip
install https://github.com/kivy/kivy/archive/master.zip
Collecting https://github.com/kivy/kivy/archive/master.zip
  Downloading https://github.com/kivy/kivy/archive/master.zip
     \ 41.5MB 2.1MB/s
Collecting Kivy-Garden>=0.1.4 (from Kivy==1.11.0.dev0)
  Using cached https://files.pythonhosted.org/packages/7d/68/
decaee596ff8168a39432eb3949fc7c0be952ebb9467806823bffc165d48/
kivy-garden-0.1.4.tar.gz
Collecting docutils (from Kivy==1.11.0.dev0)
  Using cached https://files.pythonhosted.org/packages/36/fa/
08e9e6e0e3cbd1d362c3bbee8d01d0aedb2155c4ac112b19ef3cae8eed8d/
docutils-0.14-py3-none-any.whl
Collecting pygments (from Kivy==1.11.0.dev0)
  Using cached https://files.pythonhosted.org/packages/13/
e5/6d710c9cf96c31ac82657bcfb441df328b22df8564d58d0c4cd62612674c/
Pygments-2.3.1-py2.py3-none-any.whl
Collecting requests (from Kivy-Garden>=0.1.4->Kivy==1.11.0.dev0)
  Downloading https://files.pythonhosted.org/packages/7d/
e3/20f3d364d6c8e5d2353c72a67778eb189176f08e873c9900e10c0287b84b/
requests-2.21.0-py2.py3-none-any.whl (57kB)
    100% |
                                         || 61kB 797kB/s
Collecting urllib3<1.25,>=1.21.1 (from requests->Kivy-
Garden>=0.1.4->Kivy==1.11.0.dev0)
  Using cached https://files.pythonhosted.org/packages/62/00/
ee1d7de624db8ba7090d1226aebefab96a2c71cd5cfa7629d6ad3f61b79e/
urllib3-1.24.1-pv2.pv3-none-anv.whl
Collecting chardet<3.1.0,>=3.0.2 (from requests->Kivy-
Garden>=0.1.4->Kivy==1.11.0.dev0)
  Using cached https://files.pythonhosted.org/packages/bc/
a9/01ffebfb562e4274b6487b4bb1ddec7ca55ec7510b22e4c51f14098443b8/
chardet-3.0.4-py2.py3-none-any.whl
Collecting idna<2.9,>=2.5 (from reguests->Kivy-Garden>=0.1.4-
>Kivy==1.11.0.dev0)
  Downloading https://files.pythonhosted.org/packages/14/2c/
cd551d81dbe15200be1cf41cd03869a46fe7226e7450af7a6545bfc474c9/
idna-2.8-py2.py3-none-any.whl (58kB)
                                       Collecting certifi>=2017.4.17 (from requests->Kivy-
Garden>=0.1.4->Kivy==1.11.0.dev0)
  Downloading https://files.pythonhosted.org/packages/9f/e0/
accfc1b56b57e9750eba272e24c4dddeac86852c2bebd1236674d7887e8a/
certifi-2018.11.29-py2.py3-none-any.whl (154kB)
    100% |
                                   163kB 2.2MB/s
```

```
Building wheels for collected packages: Kivy, Kivy-Garden
  Running setup.py bdist_wheel for Kivy ... done
  Stored in directory: /private/var/folders/ n/
ndycw_zx7kb8gqy9kqwl3mnr0000gn/T/pip-ephem-wheel-cache-d18pz6si/
wheels/56/b0/bf/
9a199707fb844ac913813b5254a15c2d2ab74063230d66d27d
  Running setup.py bdist wheel for Kivy-Garden ... done
  Stored in directory: /Users/ak/Library/Caches/pip/wheels/
e5/09/36/4bec048252175b6aa7ba75441cbeed8f31a0bea37abedcfed0
Successfully built Kivy Kivy-Garden
Installing collected packages: urllib3, chardet, idna, certifi,
requests, Kivy-Garden, docutils, pygments, Kivy
Successfully installed Kivy-1.11.0.dev0 Kivy-Garden-0.1.4
certifi-2018.11.29 chardet-3.0.4 docutils-0.14 idna-2.8
pygments-2.3.1 requests-2.21.0 urllib3-1.24.1
Arkadiis-MacBook-Pro:kivy-ios-master ak$
```

Testing ...

```
/usr/local/bin/python3.7 /Users/ak/Documents/projects/micropython-robot/async-
firmware-app/testing/tester-084-086/DriftBuggy08/main.py
[WARNING] [Config
                      Older configuration version detected (20 instead of 21)
[WARNING] [Config ] Upgrading configuration in progress.
[INFO ] [Logger ] Record log in /Users/ak/.kivy/logs/kivy 19-01-31 3.txt
[INFO ] [Kivy
                  1 v1.11.0.dev0, git-Unknown, 20190131
[INFO ] [Python
                 ] v3.7.2 (default, Jan 13 2019, 12:50:15)
[Clang 10.0.0 (clang-1000.11.45.5)]
[INFO ] [Factory ] 184 symbols loaded
[INFO ] [Image
                   1 Providers: img tex, img imageio, img dds, img sdl2,
img gif (img pil, img ffpyplayer ignored)
[INFO ] [Text
                  | Provider: sdl2(['text_pango'] ignored)
[INFO ] [Window
                    ] Provider: sdl2
[INFO ] [GL
                  1 Using the "OpenGL ES 2" graphics system
[INFO ] [GL
                  ] Backend used <sdl2>
[INFO ] [GL
                  OpenGL version <br/>
<br/>
'2.1 NVIDIA-10.4.14 310.90.30.05b27'>
[INFO ] [GL
                  1 OpenGL vendor <b'NVIDIA Corporation'>
[INFO ] [GL
                  1 OpenGL renderer <b 'NVIDIA GeForce GT 330M OpenGL
Engine'>
[INFO ] [GL
                  OpenGL parsed version: 2, 1
[INFO ] [GL
                  1 Shading version <b'1.20'>
[INFO ] [GL
                  1 Texture max size <8192>
[INFO ] [GL
                  ] Texture max units <16>
[INFO ] [Window
                    auto add sdl2 input provider
[INFO ] [Window
                    I virtual keyboard not allowed, single mode, not docked
```

```
[INFO ] [Base
                1 Start application main loop
[INFO ] [GL
                 1 NPOT texture support is available
[INFO ] [WindowSDL ] exiting mainloop and closing.
INFO 1 Base
                 1 Leaving application in progress...
```

Process finished with exit code 0

OK

```
Error starting at IOS emulator KeyError: 'kivy.garden.joystick'
2019-01-31 19:00:27.540509+0200 driftbuggy[39589:580734]
libMobileGestalt MobileGestalt.c:890: MGIsDeviceOneOfType is not
supported on this platform.
2019-01-31 19:00:27.763953+0200 driftbuggy[39589:580734]
[framework] CUIThemeStore: No theme registered with id=0
2019-01-31 19:00:27.870853+0200 driftbuggy[39589:580734]
Available orientation: KIVY ORIENTATION=LandscapeLeft
LandscapeRight Portrait PortraitUpsideDown
2019-01-31 19:00:27.871171+0200 driftbuggy[39589:580734]
Initializing python
/Users/ak/Library/Developer/CoreSimulator/Devices/3F1380AF-
B3D6-4C24-9B11-46134D8C72C3/data/Containers/Bundle/Application/
6868BCC7-BF6C-4E7F-A210-E1EA4C4CEDAA/driftbuggy.app/driftbuggy:
1: DeprecationWarning: the imp module is deprecated in favour of
importlib; see the module's documentation for alternative uses
2019-01-31 19:00:28.176257+0200 driftbuggy[39589:580734] Running
main.py: /Users/ak/Library/Developer/CoreSimulator/Devices/
3F1380AF-B3D6-4C24-9B11-46134D8C72C3/data/Containers/Bundle/
Application/6868BCC7-BF6C-4E7F-A210-E1EA4C4CEDAA/driftbuggv.app/
YourApp/main.pyc
        ] [Kivy
                       l v1.10.1
[INFO
                       ] v3.7.1 (default, Jan 31 2019, 00:41:15)
[INFO
        ] [Python
[Clang 10.0.0 (clang-1000.11.45.5)]
       ] [Factory ] 194 symbols loaded
[INFO
                       ] Providers: img imageio, img tex
[INFO
        ] [Image
(img_dds, img_sdl2, img_ffpyplayer, img_pil, img_gif ignored)
 Traceback (most recent call last):
   File "/Users/ak/Documents/projects/kivy-ios-master/
driftbuggy-ios/YourApp/main.py", line 62, in <module>
   File "<frozen importlib. bootstrap>", line 983, in
_find_and_load
   File "<frozen importlib._bootstrap>", line 967, in
find and load unlocked
   File "<frozen importlib. bootstrap>", line 668, in
load unlocked
```

```
File "<frozen importlib._bootstrap>", line 640, in _load_backward_compatible KeyError: 'kivy.garden.joystick' 2019-01-31 19:00:29.205885+0200 driftbuggy[39589:580734] Application quit abnormally! 2019-01-31 19:00:29.264237+0200 driftbuggy[39589:580734] Leaving
```

Working ...

https://kivy.org/doc/master/api-kivy.garden.html

```
Arkadiis-MacBook-Pro:kivy-ios-master ak$ python3.7 -m pip
install kivy-garden
Requirement already satisfied: kivy-garden in /usr/local/lib/
pvthon3.7/site-packages (0.1.4)
Requirement already satisfied: requests in /usr/local/lib/
python3.7/site-packages (from kivy-garden) (2.21.0)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /usr/
local/lib/python3.7/site-packages (from reguests->kivy-garden)
(3.0.4)
Requirement already satisfied: idna<2.9,>=2.5 in /usr/local/lib/
python3.7/site-packages (from requests->kivy-garden) (2.8)
Requirement already satisfied: urllib3<1.25,>=1.21.1 in /usr/
local/lib/python3.7/site-packages (from requests->kivy-garden)
(1.24.1)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/
lib/python3.7/site-packages (from requests->kivy-garden)
(2018.11.29)
>>
```

Its very pity ...

Try to add Joystick locally

Added name DriftBuggy driftbuggy

```
Arkadiis-MacBook-Pro:kivy-ios-master ak$ python3 ./toolchain.py
create DriftBuggy /Users/ak/Documents/projects/micropython-
robot/async-firmware-app/testing/tester-084-086/DriftBuggy08
Include dir added: {arch.arch}/freetype
Global: hostpython located at /Users/ak/Documents/projects/kivy-
ios-master/dist/hostpython3/bin/python
Global: hostpgen located at /Users/ak/Documents/projects/kivy-
ios-master/dist/hostpython3/bin/pgen
Include dir added: {arch.arch}/ffi
Include dir added: {arch.arch}/openssl
Include dir added: common/sdl2
Include dir added: common/sdl2_image
Include dir added: common/sdl2 mixer
Include dir added: common/sdl2_ttf
Include dir added: {arch.arch}/freetype
Global: hostpython located at /Users/ak/Documents/projects/kivy-
ios-master/dist/hostpython3/bin/python
Global: hostpgen located at /Users/ak/Documents/projects/kivy-
ios-master/dist/hostpython3/bin/pgen
Include dir added: {arch.arch}/ffi
Include dir added: {arch.arch}/openssl
Include dir added: common/sdl2
Include dir added: common/sdl2 image
Include dir added: common/sdl2 mixer
Include dir added: common/sdl2 ttf
The project need to have:
iOS Frameworks: ['OpenGLES', 'QuartzCore', 'CoreMotion',
'CoreGraphics', 'Metal', 'Accelerate', 'GameController',
'MobileCoreServices', 'ImageIO', 'UIKit', 'AVFoundation',
'AudioToolbox', 'MessageUI']
iOS Libraries: ['libz', 'libc++', 'libbz2', 'libsqlite3']
iOS local Frameworks: []
Libraries: ['/Users/ak/Documents/projects/kivy-ios-master/dist/
lib/libffi.a', '/Users/ak/Documents/projects/kivy-ios-master/
dist/lib/libpython3.a', '/Users/ak/Documents/projects/kivy-ios-
master/dist/lib/libssl.a', '/Users/ak/Documents/projects/kivy-
ios-master/dist/lib/libsdl2_ttf.a', '/Users/ak/Documents/
projects/kivy-ios-master/dist/lib/libsdl2 mixer.a', '/Users/ak/
Documents/projects/kivy-ios-master/dist/lib/libkivy.a', '/Users/
ak/Documents/projects/kivy-ios-master/dist/lib/libcrypto.a', '/
Users/ak/Documents/projects/kivy-ios-master/dist/lib/libsdl2.a',
'/Users/ak/Documents/projects/kivy-ios-master/dist/lib/
```

libpyobjus.a', '/Users/ak/Documents/projects/kivy-ios-master/
dist/lib/libsdl2_image.a', '/Users/ak/Documents/projects/kivyios-master/dist/lib/libfreetype.a', '/Users/ak/Documents/
projects/kivy-ios-master/dist/lib/libios.a']
Sources to link: []

```
Analysis of /Users/ak/Documents/projects/kivy-ios-master/
driftbuggy-ios/driftbuggy.xcodeproj/project.pbxproj
Ensure OpenGLES is in the project (pbx frameworks, system)
Ensure QuartzCore is in the project (pbx frameworks, system)
Ensure CoreMotion is in the project (pbx_frameworks, system)
Ensure CoreGraphics is in the project (pbx_frameworks, system)
Ensure Metal is in the project (pbx frameworks, system)
Ensure Accelerate is in the project (pbx frameworks, system)
Ensure GameController is in the project (pbx_frameworks, system)
Ensure MobileCoreServices is in the project (pbx frameworks,
svstem)
Ensure ImageIO is in the project (pbx frameworks, system)
Ensure UIKit is in the project (pbx_frameworks, system)
Ensure AVFoundation is in the project (pbx frameworks, system)
Ensure AudioToolbox is in the project (pbx frameworks, system)
Ensure MessageUI is in the project (pbx_frameworks, system)
Ensure libz is in the project (pbx_libraries, dylib+tbd)
Ensure libc++ is in the project (pbx libraries, dylib+tbd)
Ensure libbz2 is in the project (pbx_libraries, dylib+tbd)
Ensure libsqlite3 is in the project (pbx_libraries, dylib+tbd)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/
libffi.a is in the project (libraries)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/
libpython3.a is in the project (libraries)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/
libssl.a is in the project (libraries)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/
libsdl2_ttf.a is in the project (libraries)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/
libsdl2 mixer.a is in the project (libraries)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/
libkivy.a is in the project (libraries)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/
libcrypto.a is in the project (libraries)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/
libsdl2.a is in the project (libraries)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/
libpyobjus.a is in the project (libraries)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/
libsdl2_image.a is in the project (libraries)
```

```
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/libfreetype.a is in the project (libraries)
Ensure /Users/ak/Documents/projects/kivy-ios-master/dist/lib/libios.a is in the project (libraries)
```

Project directory : driftbuggy-ios

XCode project : driftbuggy-ios/driftbuggy.xcodeproj

Error while importing modules ModuleNotFoundError: No module named 'module in home directory'

https://github.com/kivy/kivy-ios/issues/320

Solution:

```
import sys
sys.path.append("_applibs")
sys.path.append(".")

Another (not tested yet) http://www.albertgao.xyz/2017/05/22/how-
to-get-current-app-folder-in-kivy/

Errors while importing modules. And/or kivy ios
kivy.factory.FactoryException: Unknown class,
Error ModuleNotFoundError: No module named '__main__.demo';
'__main__' is not a package

Solution:
drop the .
```

https://stackoverflow.com/questions/46125196/kivy-error-raise-factoryexceptionunknown-class-s-name

async-firmware-app/testing/tester-084-086/DriftBuggy08/main.py

```
import sys
sys.path.append("_applibs")
sys.path.append(".")

from kivy.app import App

from kivy.uix.widget import Widget
# from kivy.garden.joystick import Joystick
# from jstk.joystick import Joystick
```

```
# from joystick import Joystick
# from jstk import JoystickPad
# from jstk import Joystick
from joystick import Joystick
from joystickpad import Joystick
```

Error - Joystick is NOT visible
Solution:

Use Builder INSTEAD of .KV file

async-firmware-app/testing/tester-084-086/DriftBuggy08/
joystick.py

```
from kivy.lang import Builder
Builder.load string('''
<JovStick>:
    canvas:
        ### Outer Background ###
        Color:
            rgba: self.outer background color
        Ellipse:
           pos: (self.center x - self. outer radius),
self.center y - self. outer radius)
        ### Outer Border ###
        Color:
            rgba: self.outer_line_color
        Line:
self. outer radius - (self. outer line width / 2)))
            width: self. outer line width
        ### Inner Background ###
        Color:
            rgba: self.inner_background_color
       Ellipse:
            pos: (self.center x - self. inner radius),
self.center_y - self._inner_radius)
            size: (self._inner_diameter, self._inner_diameter)
        ### Inner Border ###
        Color:
```

async-firmware-app/testing/tester-084-086/DriftBuggy08/ joystickpad.py:

```
Builder.load_string('''
<JoystickPad>:
    id: pad
    canvas:

    ### Background ###
    Color:
        rgba: self._background_color
    Ellipse:
        pos: (self.center_x - self._radius), (self.center_y
- self._radius)
        size: (self._diameter, self._diameter)

    ### Border ###
    Color:
        rgba: self._line_color
    Line:
        circle: (self.center_x, self.center_y,
(self._diameter - (self._line_width * 2)) / 2)
        width: self._line_width
''')
```

Actual working **files**

```
(0.8.6.1).py
joystick.py jstk
```

Images and icons

-rw-r--r--@ 1 ak

-rwxr-xr-x@ 1 ak

Landscape@2x.png -rw-r--r--@ 1 ak

Portrait.png

staff

staff

staff

```
Replace
Arkadiis-MacBook-Pro:DriftBuggy08 ak$ cd /Users/ak/Documents/
projects/kivy-ios-master/driftbuggy-ios
Arkadiis-MacBook-Pro:driftbuggy-ios ak$ ls -al
total 104
drwxr-xr-x
           12 ak
                  staff
                           384 Feb 3 22:59 .
drwxr-xr-x@ 18 ak
                  staff
                            576 Feb 2 14:39 ...
                          8196 Feb 3 23:02 .DS Store
-rw-r--r--@ 1 ak
                  staff
                           448 Feb 3 23:02 LaunchImages
drwxr-xr-x
           14 ak
                  staff
                           416 Feb 3 23:07 YourApp
                  staff
drwxr-xr-x
           13 ak
                           517 Feb 2 20:53 bridge.h
                  staff
-rwxr-xr-x 1 ak
                          1774 Feb 2 20:53 bridge.m
                  staff
-rwxr-xr-x
            1 ak
drwxr-xr-x 4 ak
                           128 Feb 3 22:56 driftbuggy
                  staff
-rwxr-xr-x@ 1 ak
                  staff
                          1334 Feb 3 19:54 driftbuggy-
Info.plist
drwxr-xr-x@ 6 ak
                           192 Feb 3 22:22
                  staff
driftbuggy.xcodeproj
                         18194 Feb 3 22:35 icon.png
-rw-r--r--@ 1 ak
                  staff
                          7228 Feb 2 20:53 main.m
-rwxr-xr-x@ 1 ak
                  staff
And
Arkadiis-MacBook-Pro:driftbuggy-ios ak$ cd LaunchImages/
Arkadiis-MacBook-Pro:LaunchImages ak$ ls -al
total 19672
drwxr-xr-x
           14 ak
                             448 Feb 3 23:02 .
                  staff
                  staff
                             384 Feb 3 22:59 ...
drwxr-xr-x
            12 ak
-rw-r--r--@ 1 ak
                  staff
                         1148624 Feb 3 22:41
Default-568h@2x.png
            1 ak
                         1466479 Feb 3 23:00
-rw-r--r--@
                  staff
Default-667h@2x.png
                            8054 Feb 2 20:53
-rwxr-xr-x@
            1 ak
                  staff
Default-763h@3x.png
-rw-r---@ 1 ak staff
                         1229772 Feb 3 22:48 Default-
Landscape.png
```

3622254 Feb 3 22:50 Default-

1204732 Feb 3 22:52 Default-

9239 Feb 2 20:53 Default-

main.py

```
Portrait@2x~ipad.png
-rwxr-xr-x@ 1 ak staff 20682 Feb 2 20:53 Default-
Portrait@3x~ipad.png
-rw-r---@ 1 ak staff 314725 Feb 3 22:54 Default.png
-rw-r---@ 1 ak staff 994100 Feb 3 22:55 Default@2x.png
-rwxr-xr-x@ 1 ak staff 4099 Feb 2 20:53 Default@3x.png
-rw-r--r-@ 1 ak staff 18194 Feb 3 22:35 icon.png
```

Be Happy and have a beer :)