Gainesville Python Ninjas
April 21 2015

Design Calculator Android App With Kivy

Agenda:

(0) Introductions

(1) Eat pizza

(2) Connect to Internet

(3) Install Vagrant virtual environment

(4) Install Kivy and Buildozer

(5) Part1 of Kivy Calculator app

(6) Announcements

(7) Fin

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Install Vagrant virtual environment

Steps

(1) Install VirtualBox

https://www.virtualbox.org/wiki/Downloads

(2) Install Vagrant

http://www.vagrantup.com/downloads

(3) Create a Vagrant init file

vagrant init hashicorp/precise32

(4) Activate virtual machine

vagrant up

(5) ssh into Vagrant

vagrant ssh

Install Vagrant virtual environment

Video

http://herbertdawkins.com/blog/2015/4/8/vagrant-tutorial/15

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Install Kivy
Steps

*go here for official install instructions:

kivy.org/docs/installation/installation.html

(a) install kivy dependencies:

sudo apt-get install pkg-config python-setuptools python-pygame python-opengl \

python-gst0.10 python-enchant gstreamer0.10-plugins-good python-dev \

build-essential libgl1-mesa-dev libgles2-mesa-dev cython

   *this takes a long time !

(b) install Kivy:

pip install kivy==1.9

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Install Buildozer

Steps

*buildozer streamlines the process of making an Android apk from a kivy program

*go here for official install instructions:

https://github.com/kivy/buildozer sudo pip install buildozer

(a) install buildozer

sudo pip install buildozer

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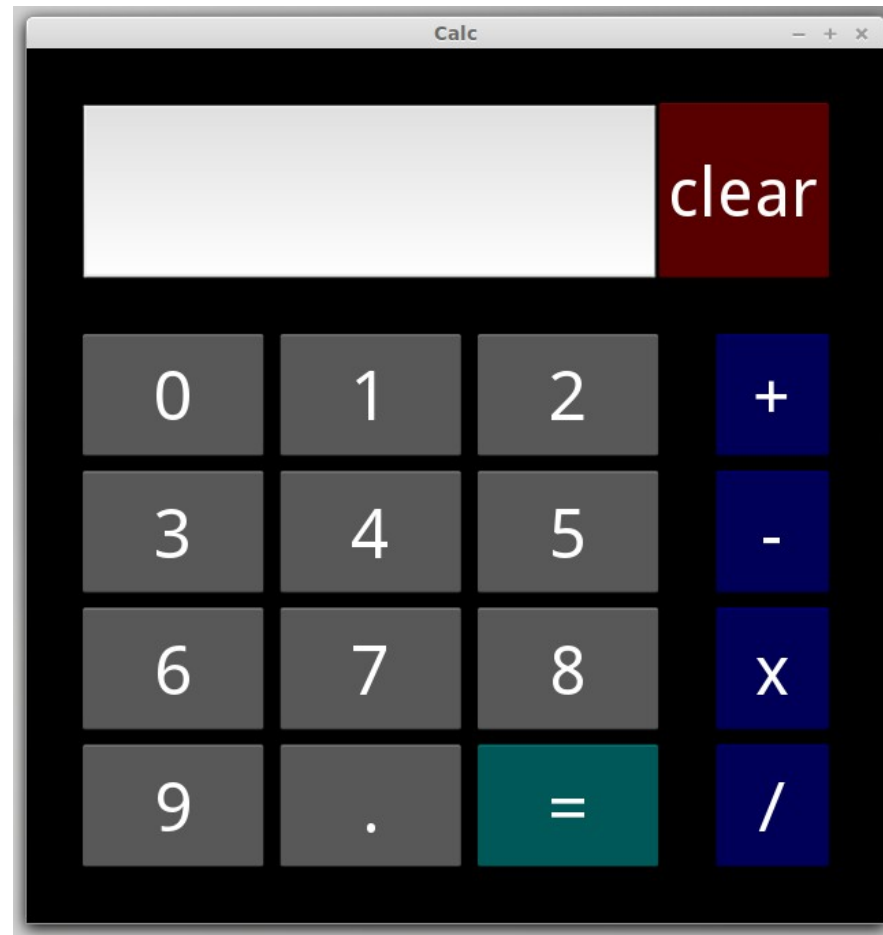
(5) Part1 of Kivy Calculator app
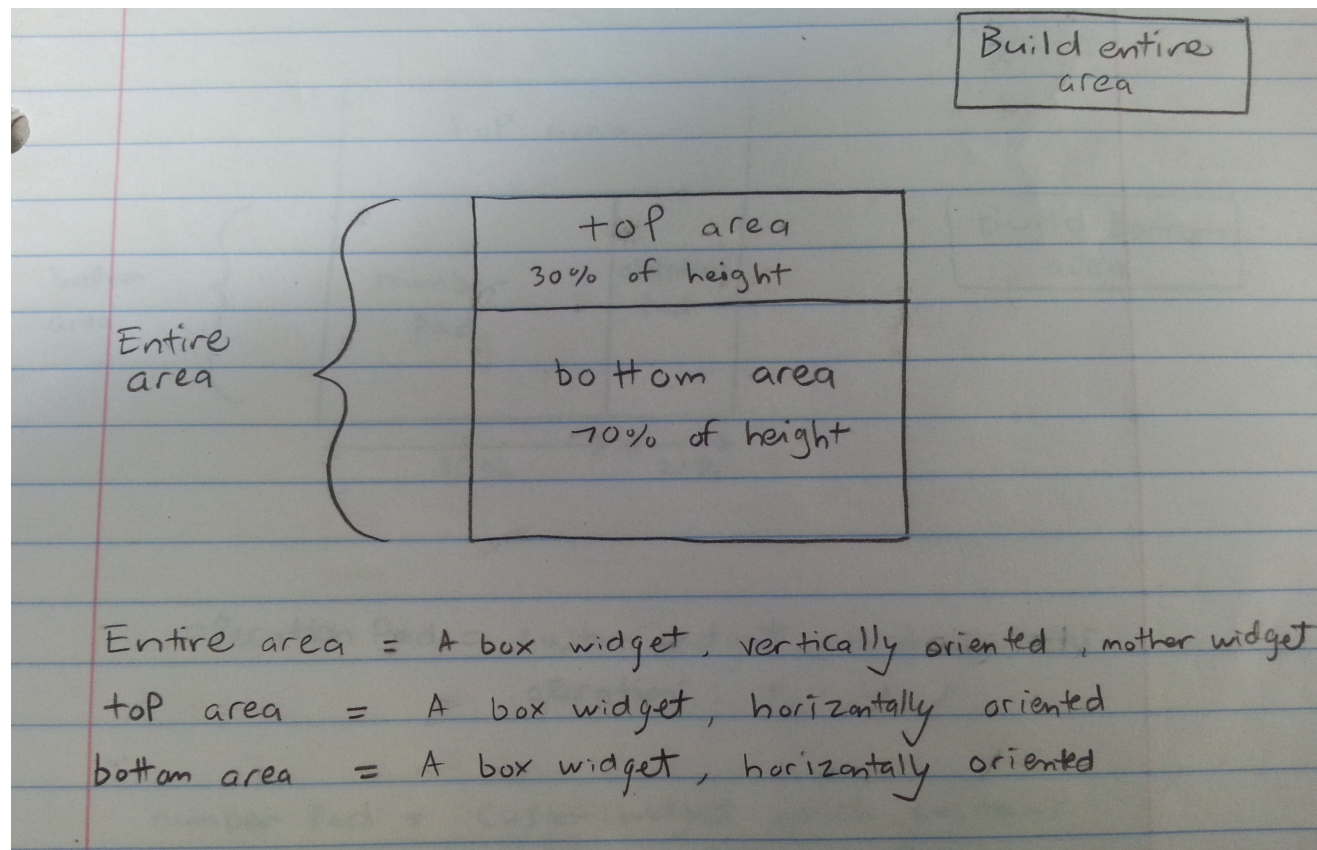
(6) Announcements

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Part1 of Kivy Calculator app
Design

final product should look like this:
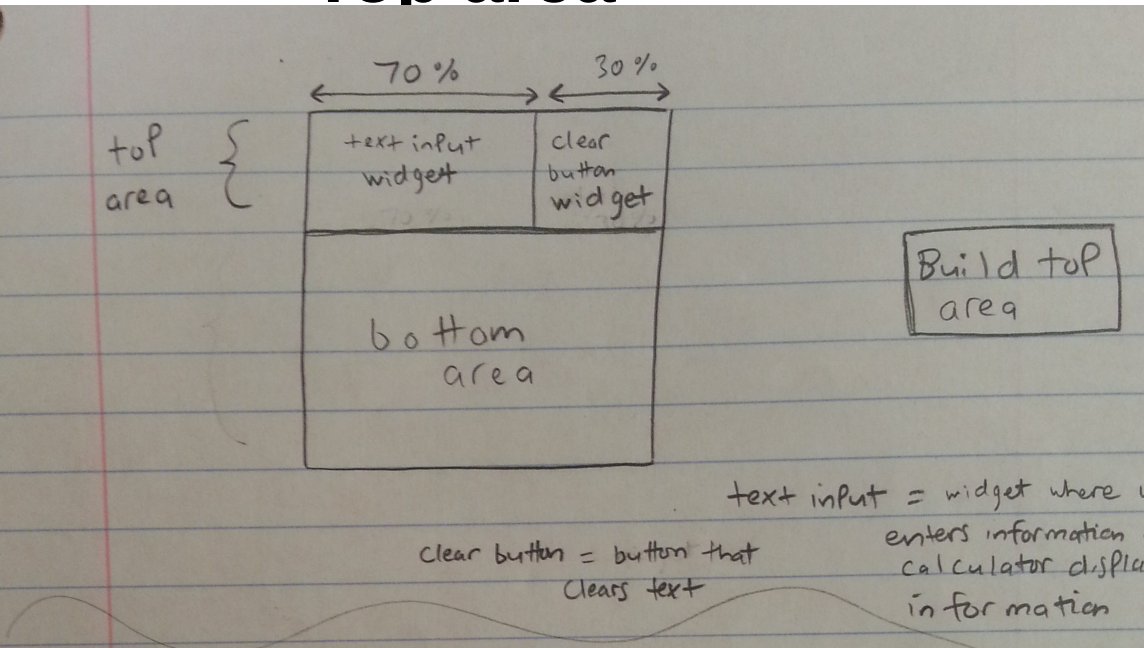
Part1 of Kivy Calculator app
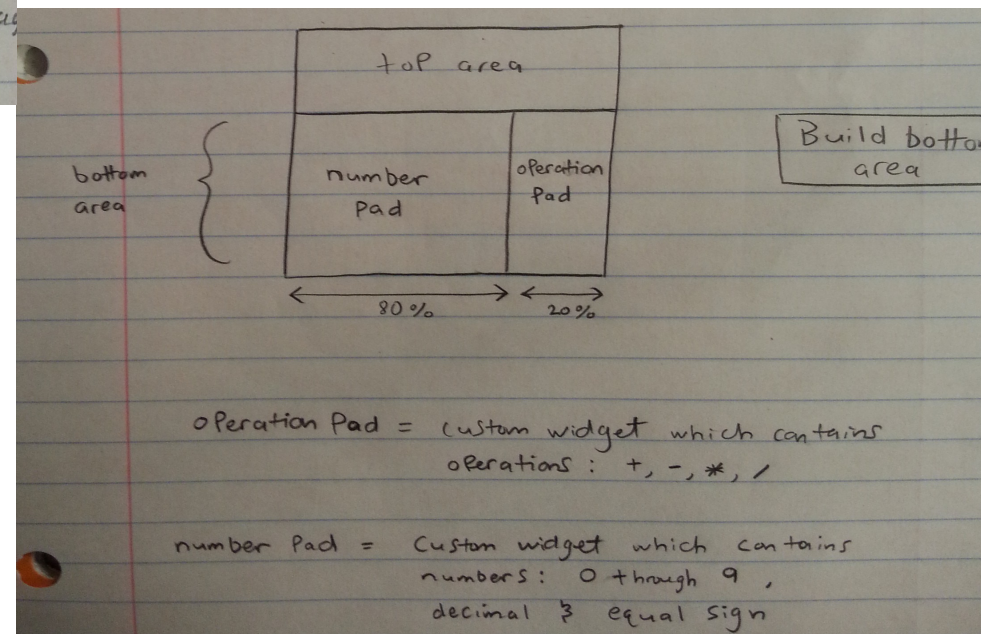## Design

Break down of widgets >> Entire Area

Part1 of Kivy Calculator app

Design

Top area

Bottom area

Design Calculator Android App With Kivy

Part1 of Kivy Calculator app
Code

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