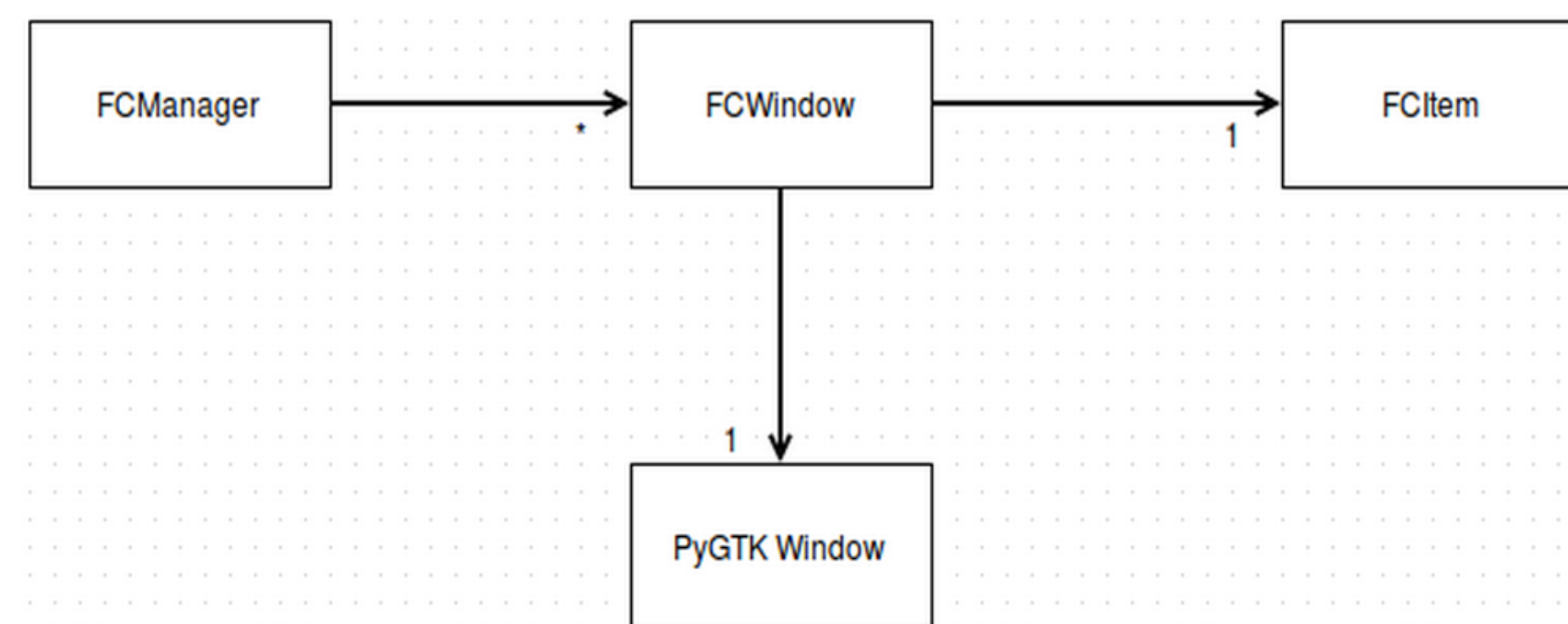


Our Goal

There is a Windows application called Rainmeter that creates desktop skins and widgets. It is highly customizable, and offers a wide variety of features. We found a lack of similar software for the Linux environment Ubuntu. Our goal for our SoftDes final project was to make customizable desktop skins that are easy to generate and optimized for Ubuntu.

Our Architecture

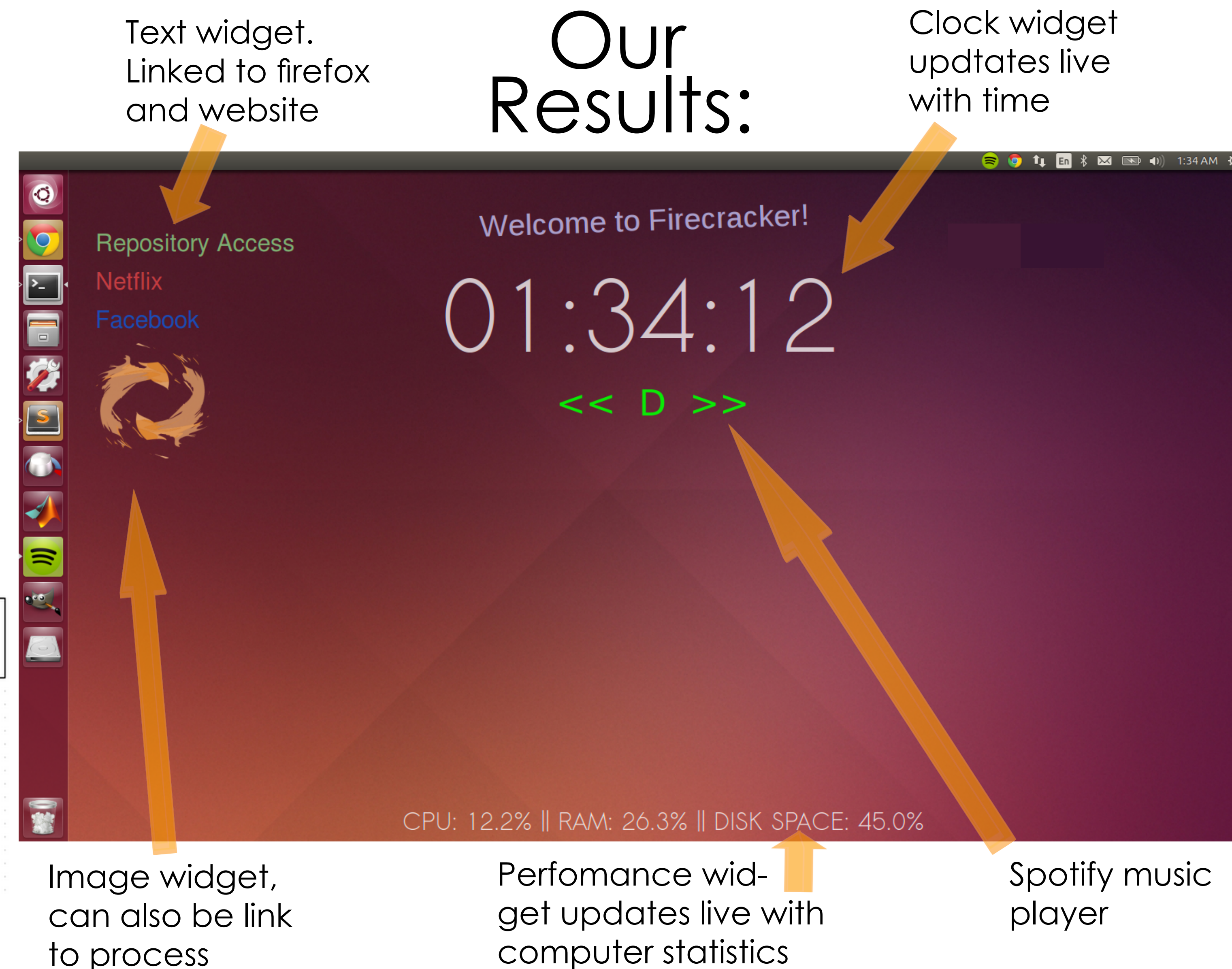


Our code structure can be represented by the simple UML graphic above. Our FCManager class has FCWindow elements. Each of these elements have a FCItem attribute, where all of the information from the configuration file is parsed. It is then represented in a PyGTK Window, which has a transparent background and is set to lie on top of the computer's wallpaper. The information is stored in config files that are generated through a file generator GUI we developed.

Our Development

During design reviews, we quickly learned that, unlike Rainmeter, users did not want to write or edit their own config files. This led us to develop a configuration file generator, in the form of a graphical user interface. The user can click on the type of widget, then customize information and file paths for the widget.

Our Results:



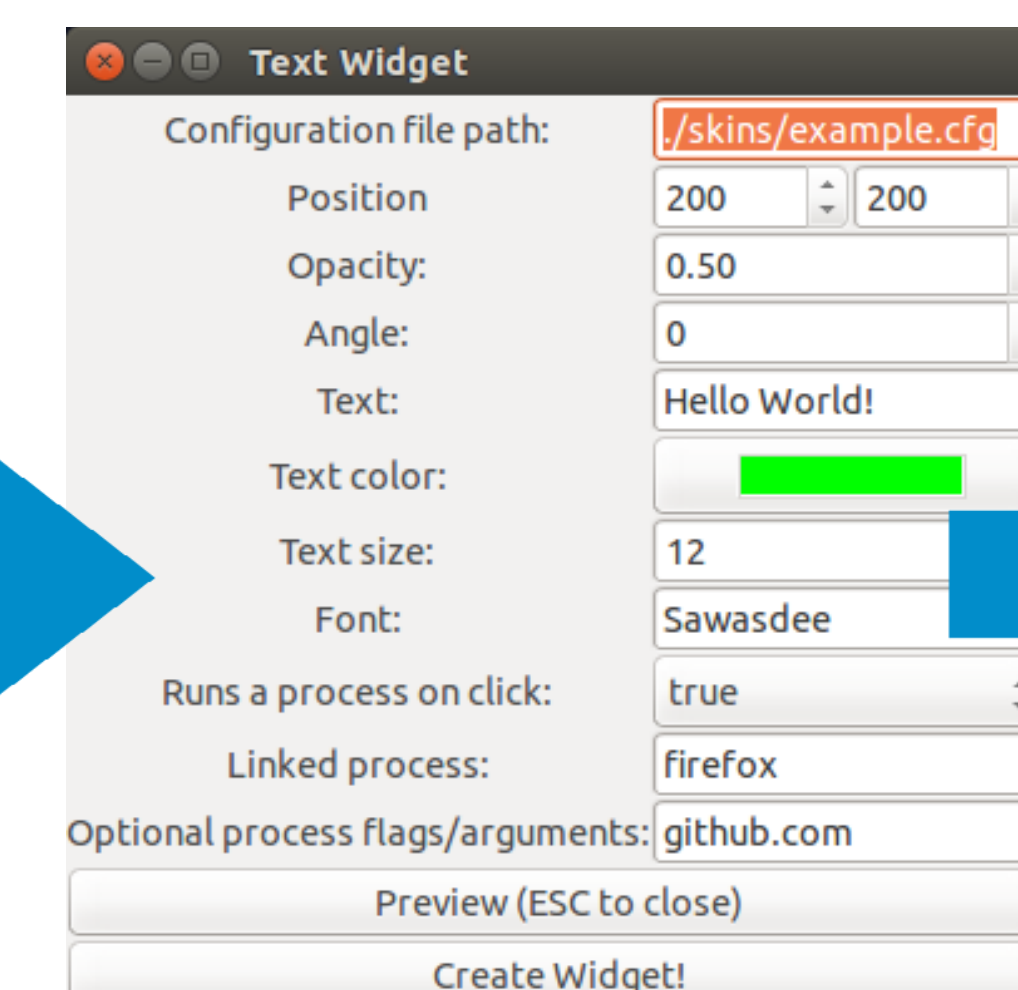
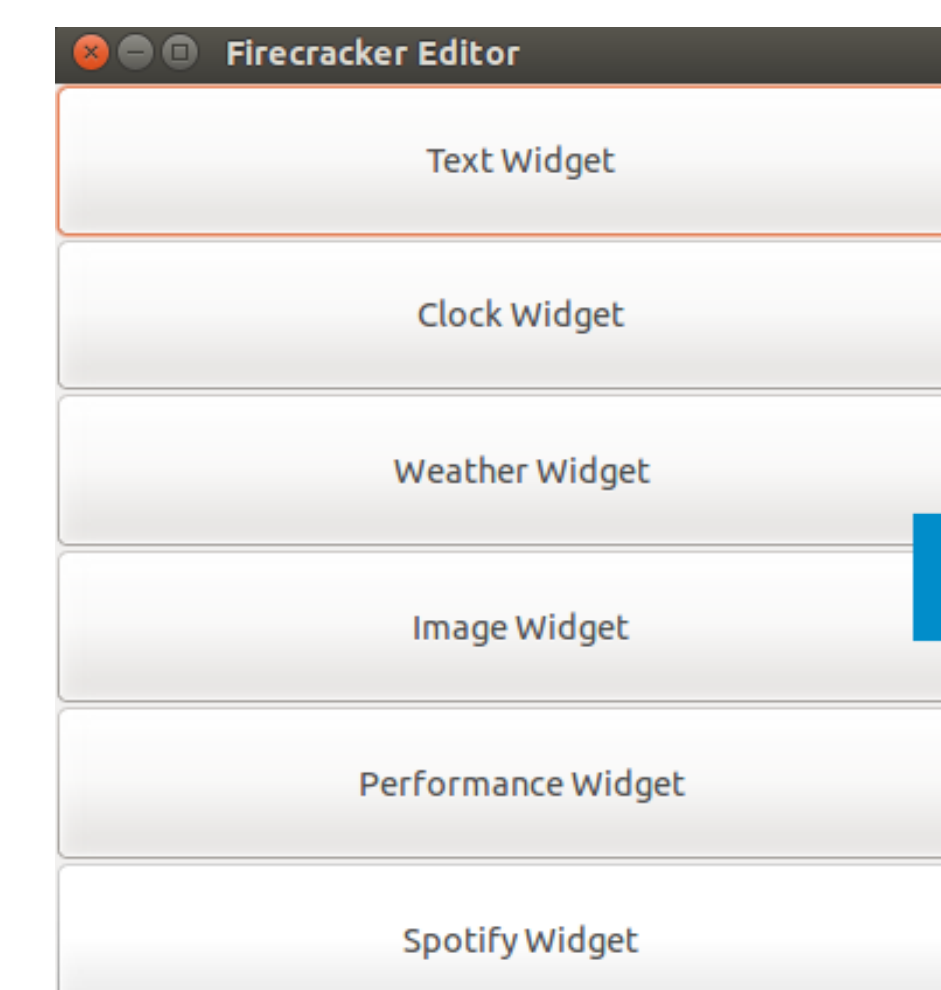
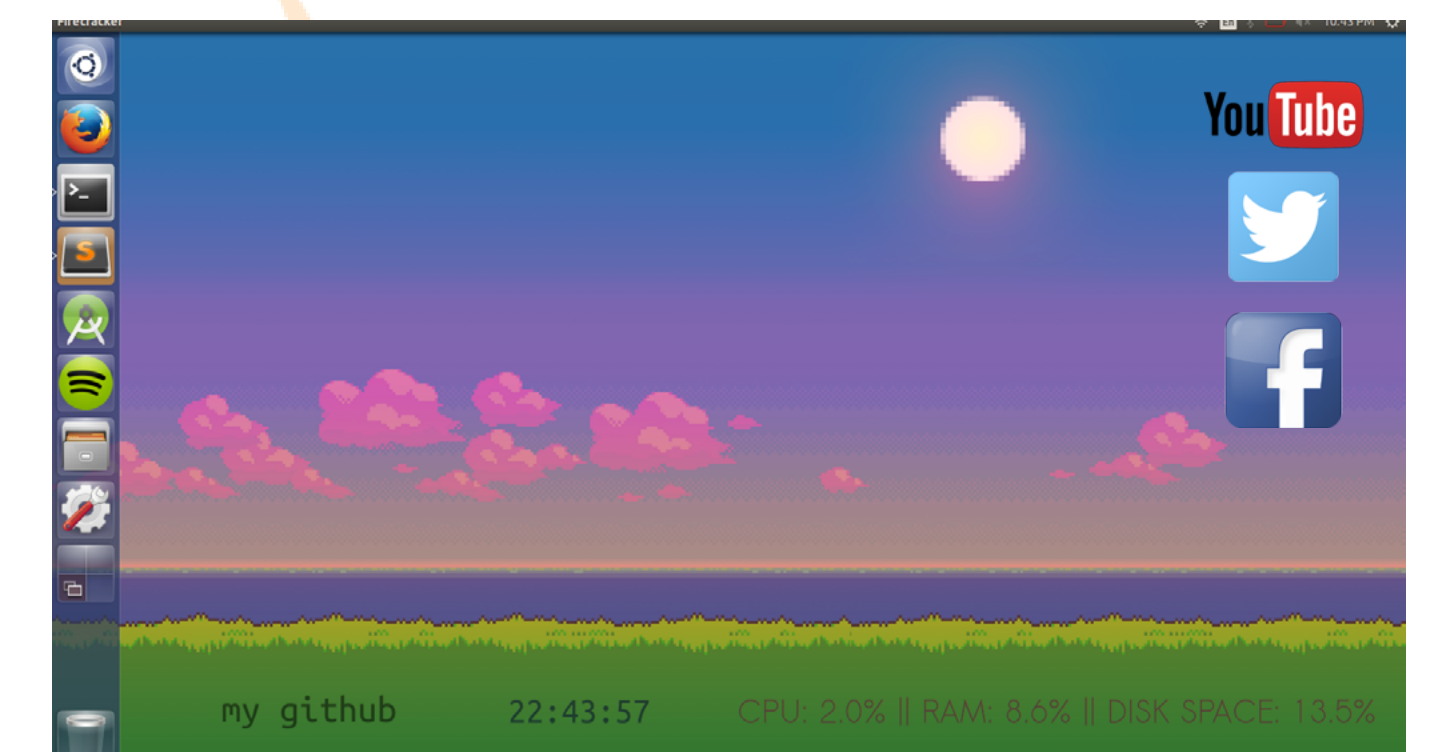
Instructions:

Clone into the repo at:
<https://github.com/joeymaalouf/firecracker>
and run:
python firecracker.py <config file path>

and make sure the following are installed

Our Dependencies

PyGTKComes with Ubuntu
Cairono install needed
Patternsudo pip install pattern
Psutilsudo pip install psutil
Spotify APIgoogle "spotify ubuntu" and follow instructions



```

< TEXT
pos_x      = 0
pos_y      = 0
size_w     = 400
size_h     = 200
text       = testing
font_size  = 24
font_color = #FF0000
alpha      = 050
font       = Ubuntu
>
  
```