

Firecracker

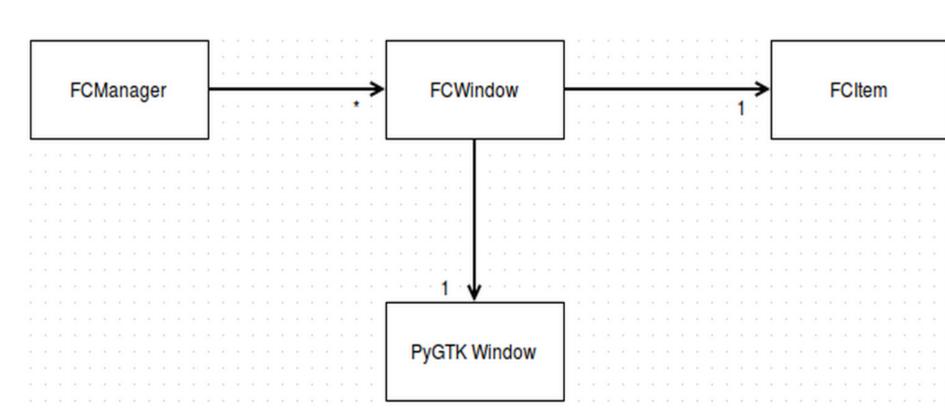
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Our Goal

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.

Text widget.
Linked to firefox
and website

Our Results: Clock widget updtates live with time

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

PyGTK Cairo Pattern Psutil Spotify API

......Comes with Ubuntu
......no install needed
.....sudo pip install pattern
.....sudo pip install psutil
.....google "spotify ubuntu"
and follow instructions

Repository Access Netflix Facebook O 1:34:12 CPU: 12.2% || RAM: 26.3% || DISK SPACE: 45.0% Image widget, Perfomance widSpotify music

get updates live with

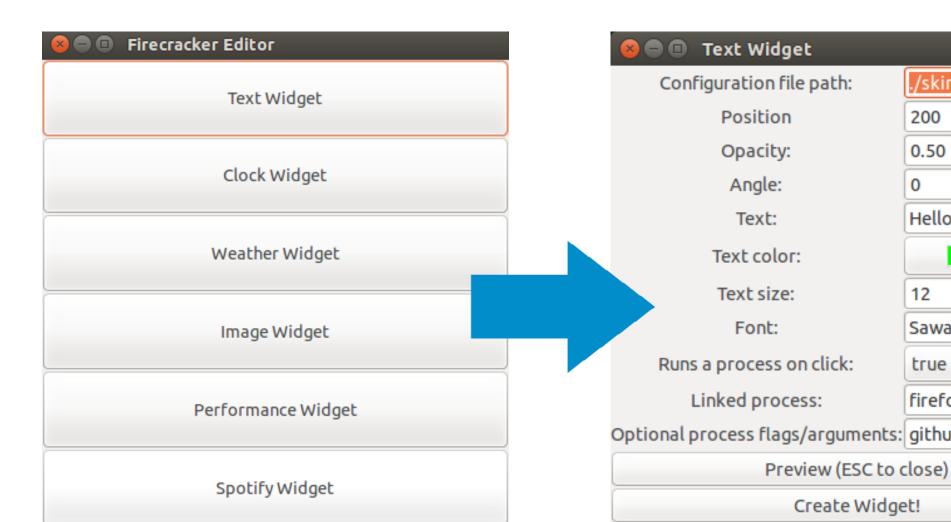
computer statistics

Our Development

can also be link

to process

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.



player

Configuration file path:

Position

Opacity:

Angle:

Text:

Hello World!

Text color:

Text size:

Font:

Runs a process on click:

Linked process:

Optional process flags/arguments: github.com

Preview (ESC to close)

Configuration file path:

//skins/example.cfg
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