



BeeWare  
The IDEs of Python

# Introducing BeeWare

By: Roth In

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Dr Russell Keith-Magee is a 10 year veteran of the Django core team, and for 5 years, was President of the Django Software Foundation. He is the founder of the BeeWare project, developing GUI tools to support the development of Python software.



“Elevator pitch is BeeWare aims to make using Python as simple for native app development as Django makes mobile app development something that is accessible to new comers but powerful enough for powerlifting purposes.”

*–Dr. Russell Keith-Magee*



# What is BeeWare?

BeeWare is a  
cross-platform  
native  
app development  
with python  
and simple app deployment.

# What can BeeWare Do For You?

- BeeWare has a collection of tools and libraries to aid in writing application user interfaces in Python.
- It enables developers to write applications for iPhone, Android, Linux, macOS and Windows that are indistinguishable from natively written applications.

# Set Up the Environment

```
$ mkdir pycon
$ cd pycon
$ python3 -m venv venv
$ . venv/bin/activate
(venv) $ pip install beeware
...
```

```
(venv) $ beeware new  
app_name [appname]: beeliza  
formal_name [App Name]: Beeliza  
description [An app that does lots of stuff]: Chat to a friend  
author [Jane Developer]: Russell Keith-Magee  
author_email [jane@example.com]: russell@beeware.org  
bundle [com.example]: org.beeware
```

# Generate a New Project

```
Select license:  
1 - BSD license  
...  
8 - Other  
Choose from 1, 2, 3, 4, 5, 6, 7, 8 [1]: 1  
Select gui_framework:  
1 - Toga  
2 - None  
Choose from 1, 2 [1]: 1
```

# Select Framework



- beeliza/
  - README.rst
  - LICENSE
  - setup.py
  - beeliza/
    - \_\_init\_\_.py
    - \_\_main\_\_.py
    - app.py

# What was Generated

```
import toga
from toga.style import Pack
from toga.style.pack import COLUMN, ROW

class Beeliza(toga.App):
    def startup(self):
        # Create a main window with a name matching the app
        self.main_window = toga.MainWindow(title=self.name)
        # Create a main content box
        main_box = toga.Box()
        # Add the content on the main window
        self.main_window.content = main_box
        # Show the main window
        self.main_window.show()

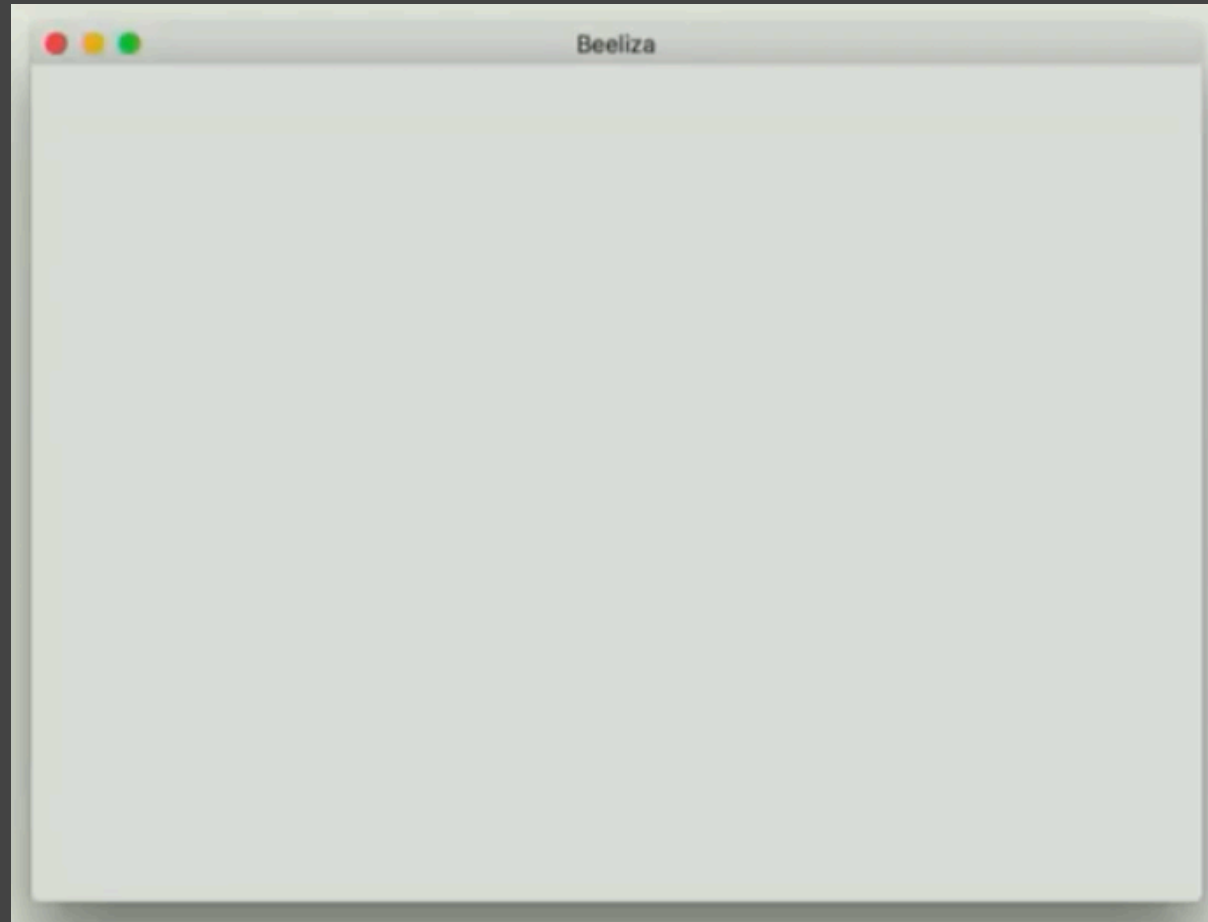
def main():
    return Beeliza('Beeliza', 'org.beeware.beeliza')
```

# app.py

Default code created

```
(venv) $ cd beeliza  
(venv) $ ls  
LICENSE      README.rst  beeliza      setup.py  
(venv) $ python -m beeliza
```

# Run as python module



# The Output

Perfectly running app that does nothing.

# Demonstrate Time

```
(venv) $ beeware build linux  
(venv) $ beeware build windows  
(venv) $ beeware build android  
(venv) $ beeware build django
```

# Build the App. in any Platform

macOS, iOS, android, window

# Thank You

- Please don't ask questions, I'm tired.