

Building Cross Platform Apps with Kivy

The Python Advantage

About me

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What is Kivy?

- Open source library for building cross-platform apps (Android, iOS, desktop).
- Written with Python.
- Uses the MIT Licence, and you can use it for commercial purposes.
- Website: <https://kivy.org>

How Kivy works

- Event-based i.e the flow of the program is determined by events.
- Has layouts and widgets e.g FloatLayout, Label, Button etc.
- Has the *kv language*, another option for declaring the widgets in a layout (just like HTML).

How it works (contd.)

- Supports multi-touch.
- Supports input from peripherals like mice, keyboard etc.

Examples

- Visit <https://intro-to-kivy.herokuapp.com>.
- Check out the available games:
 - Shuffled camera feed puzzle.
 - Ping pong.
- Check out the videos and other resources there too.

Pros

- You get to use Python with its in-built functions (`sorted()`, `min()` etc), data structures (tuples, sets) and so on.
- A possibility of using TensorFlow and other ML tools.
- It is free, open-source AND usable in commercial apps. There is no T&C that limits what purpose you can use it for.

Cons

- Not as popular as its JavaScript counterparts. So there is a limited availability of tutorials, plugins and Stack Overflow answers.
- The UI it produces is not very elegant right now.

Similar libraries

- Beeware: <https://pybee.org/>
- Yours?

There are alternatives to
JavaScript in building
cross-platform apps.
Explore them!

It's time for...



Thanks for
listening!

The End

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