

Creating Games With Python And Java

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About Me

- Amateur programmer and game developer
- High school now, college in the future
- Seeking a job as a developer! *wink wink, nudge nudge*

- CPython is the reference implementation for Python.
- Jython is a Python implementation in Java
- Offers superb interoperability with Java libraries, along with the amazing benefits of the JVM
- 2.7 betas are out!

Comparisons of CPython and Jython

#Jython		#CPython
def fibonacci():		def fibonacci():
a, b = 0, 1		a, b = 0, 1
while True:		while True:
yield a		yield a
a, b = b, a + b		a, b = b, a + b

- A cross-platform Java game development framework based on OpenGL (ES) that works on Windows, Linux, Mac OS X, Android, your WebGL enabled browser and iOS.

```
[libgdx png][gdx.png]
```

doesn't work :(

My Work with LibGDX

- Translated the LibGDX wiki (GoogleCode -> Github)
- Worked on Polyglot LibGDX (as shown in this very talk!)
- Regular on IRC
- Started Game-dev club at my school to teach and create games with LibGDX

LibGDX Classes Of Use

- `ApplicationListener` is the base java interface for a LibGDX game
- `OrthographicCamera` for camera magic
- `SpriteBatch` to draw on the screen
- Standard math classes `Vector2`, `Rectangle`, etc.

Small example!

- Small game from wiki translated to Python
- To the demo! (lets hope this works!)

Limitations of LibGDX with Jython

- GWT
- This backend is java only, so HTML LibGDX backend is a pipe dream

- Android Support
- Once jython can attain DynamicProxy support, it might be possible to have Jython on android!
- iOS support
 - the RoboVM backend runs the Android class library, so if it can android, theres a good chance it can iOS!
- packaging
 - There has been some work on compiling/packaging jython into jars, this will make distribution of your awesome Python games very easy!

- Jython: <http://jython.org>
- Jython Book: <http://www.jython.org/jythonbook/en/1.0/>
- LibGDX: <http://libgdx.badlogicgames.com/>
- LibGDX Wiki: <https://github.com/libgdx/libgdx/wiki>