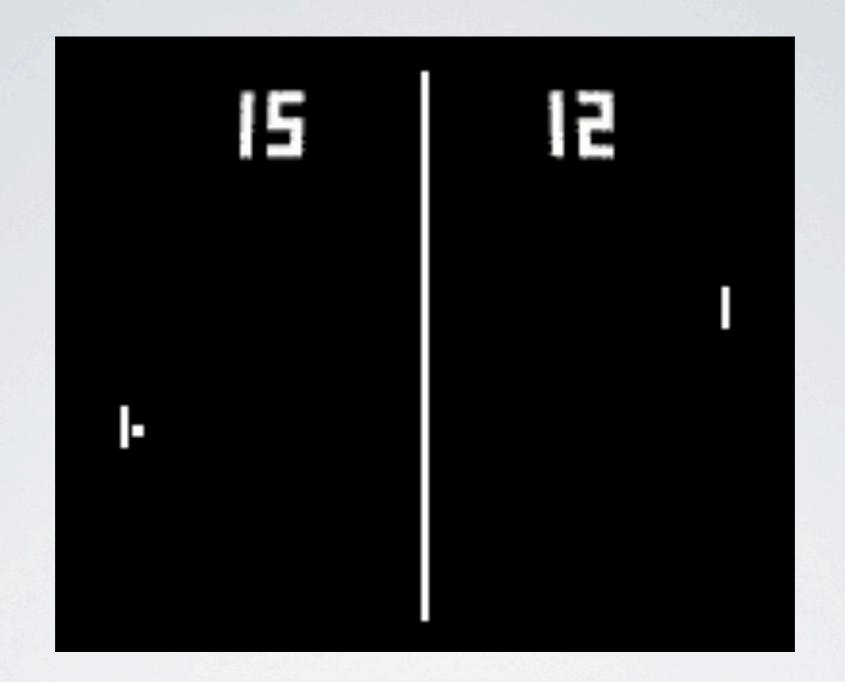
THE NEXT ITERATION OF YOUR GUI

PEP 342 (Coroutines via Enhanced Generators) PEP 380 (Syntax for Delegating to a Subgenerator)



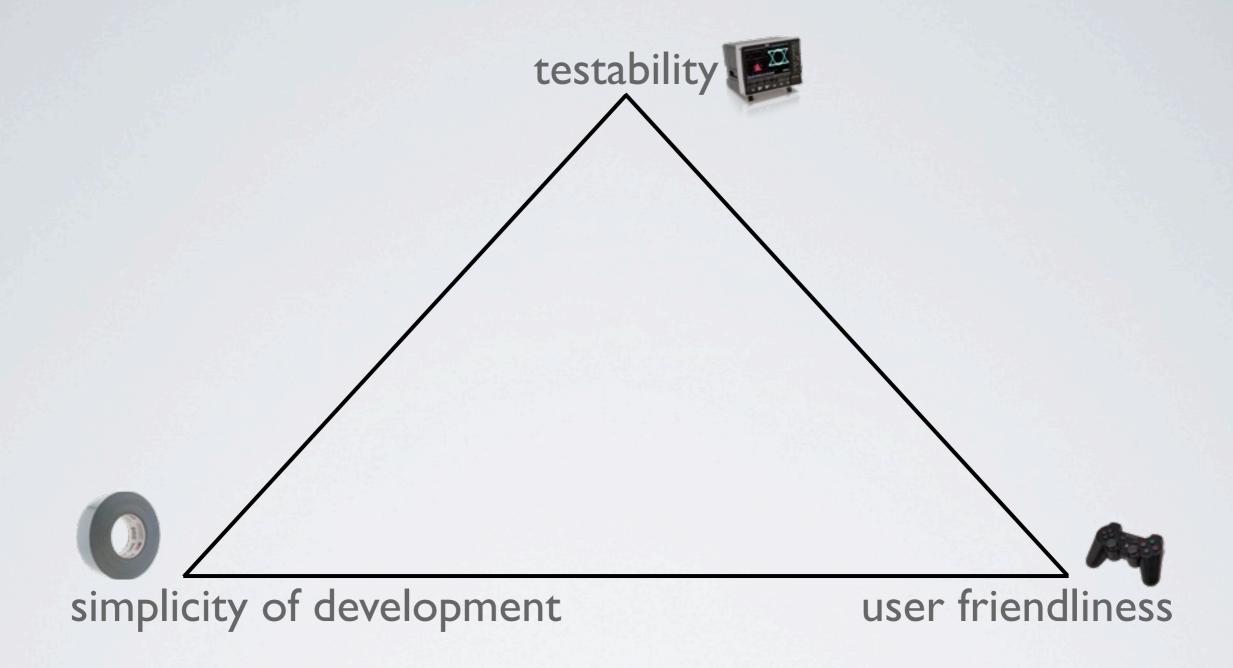


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WHAT'S GOING ON

interaction

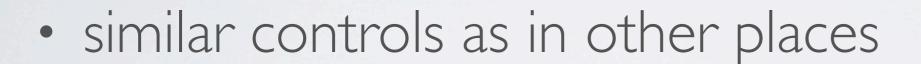




user friendliness

- use a progress indicator
- provide a cancel button







USER FRIENDLINESS

OSX human interface guidlines



USER FRIENDLINESS



Multithreaded toolkits - A failed dream? Graham Hamilton

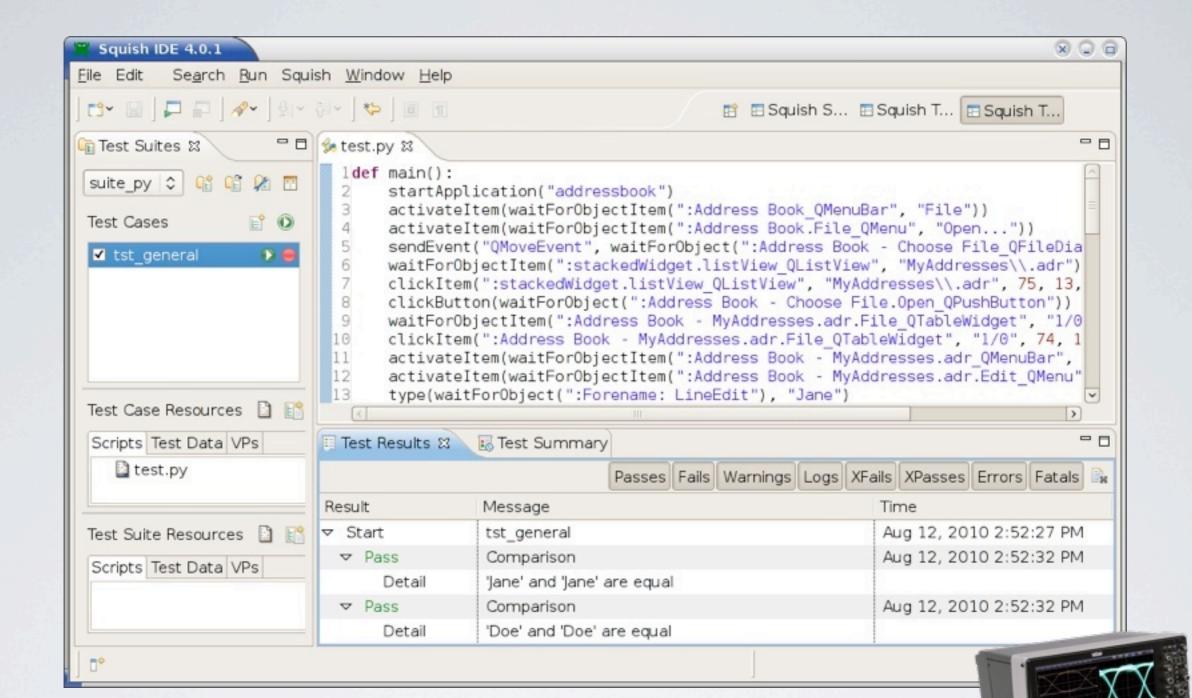
https://weblogs.java.net/blog/kgh/archive/2004/10/multithreaded_t.html



simplicity of development



testability



testability



EXAMPLE APPLICATION

process pickinglist



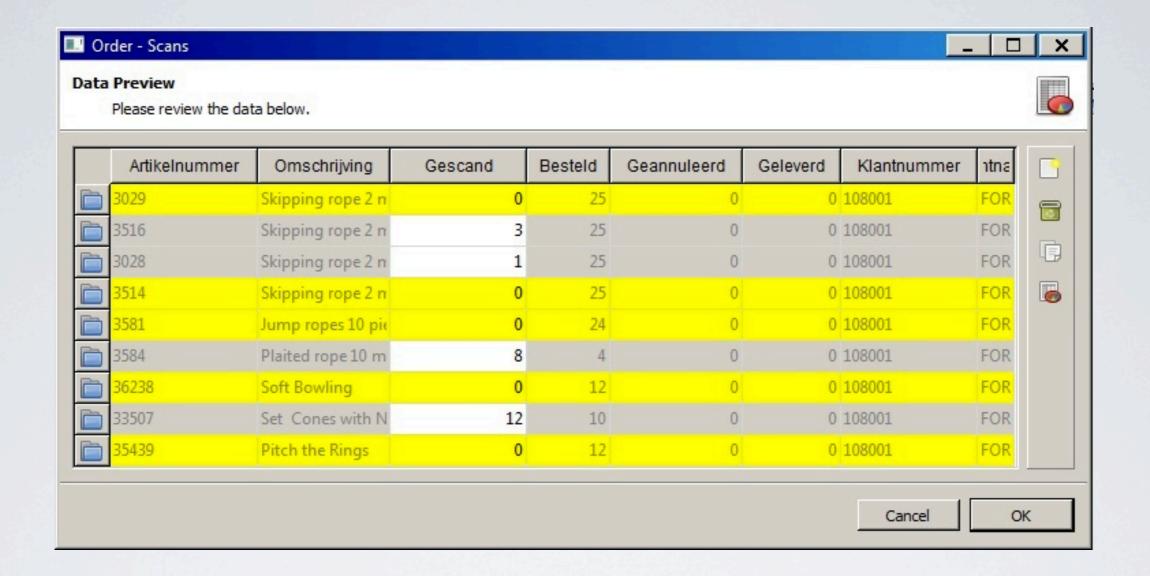
step one. scan items in warehouse



step two. import scanned lines



step two. import scanned lines



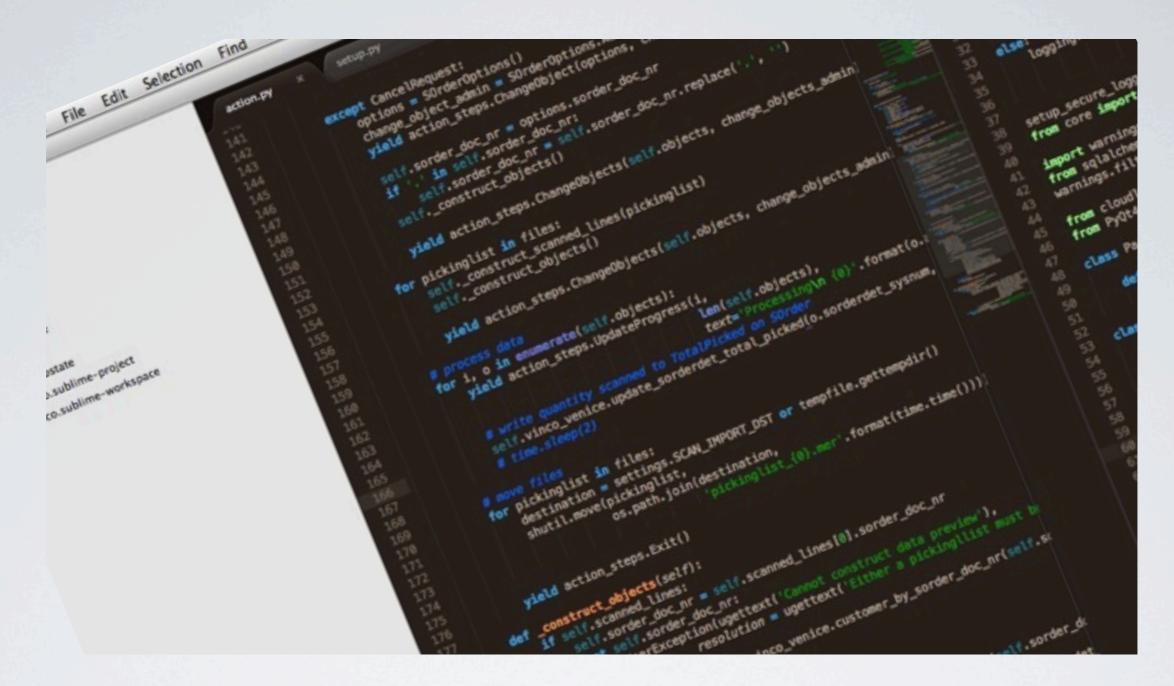
step three. verify import data



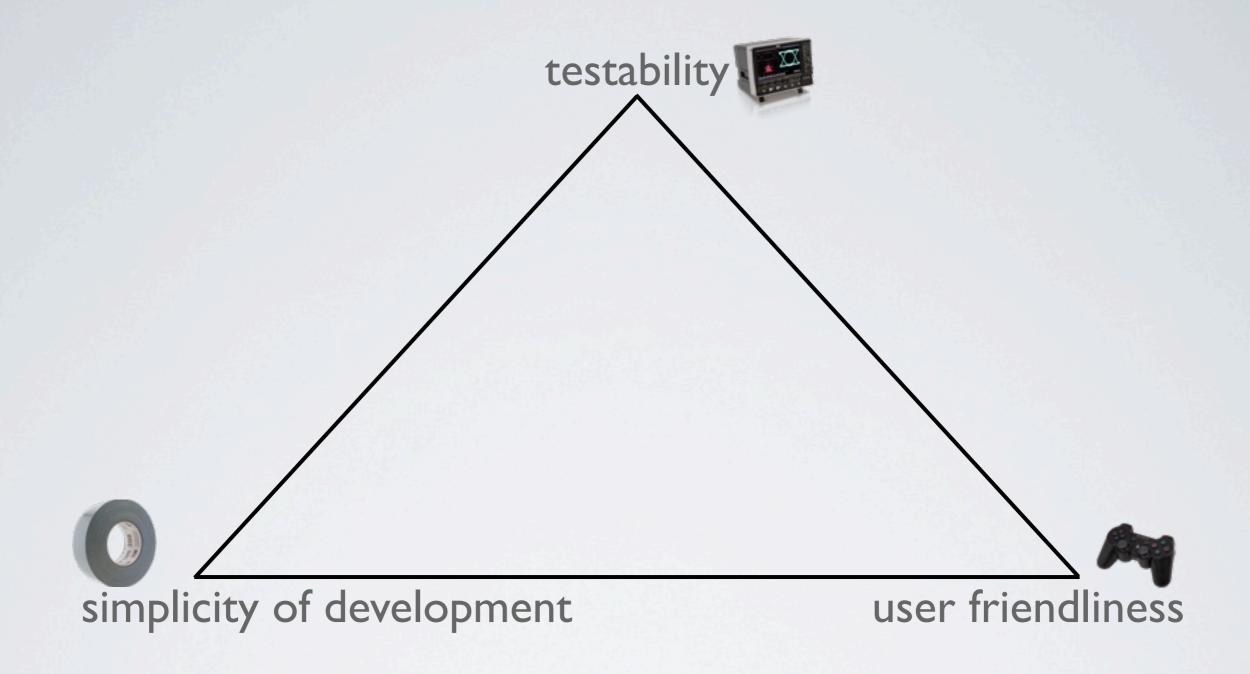
possible issues. freeze



possible issues. exceptions



show and tell



THE COMPETITION







THE COMPETITION



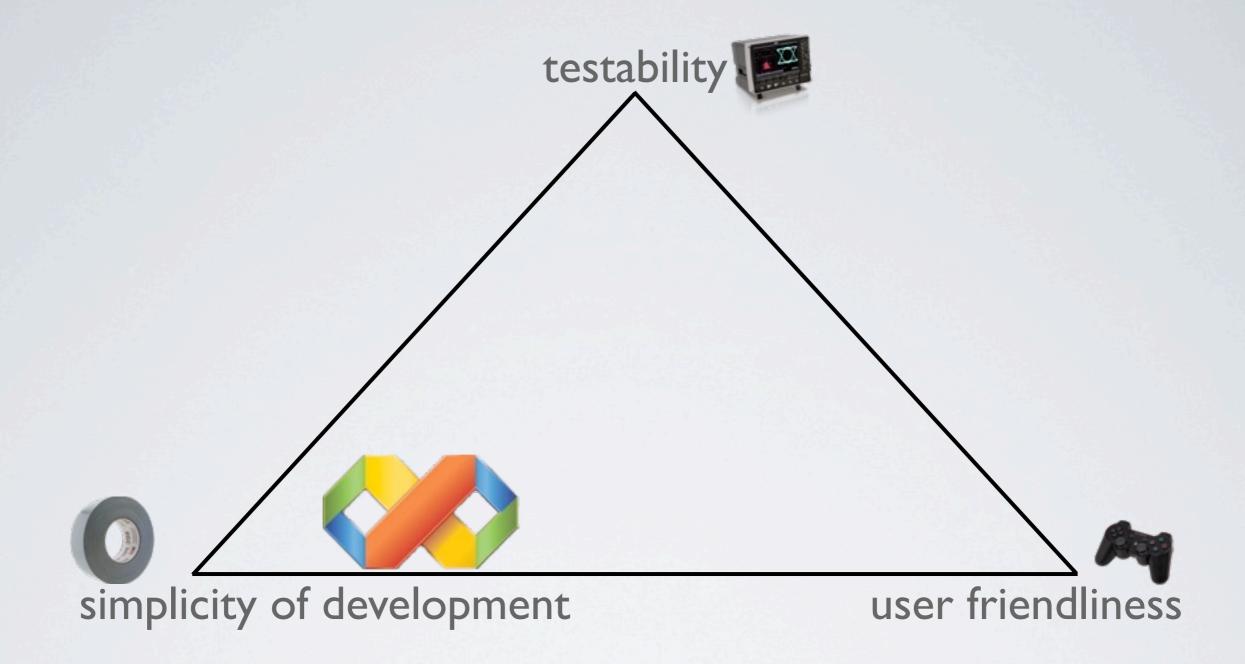
user friendliness



testability



simplicity of development



BALANCE

visual basic



THE COMPETITION



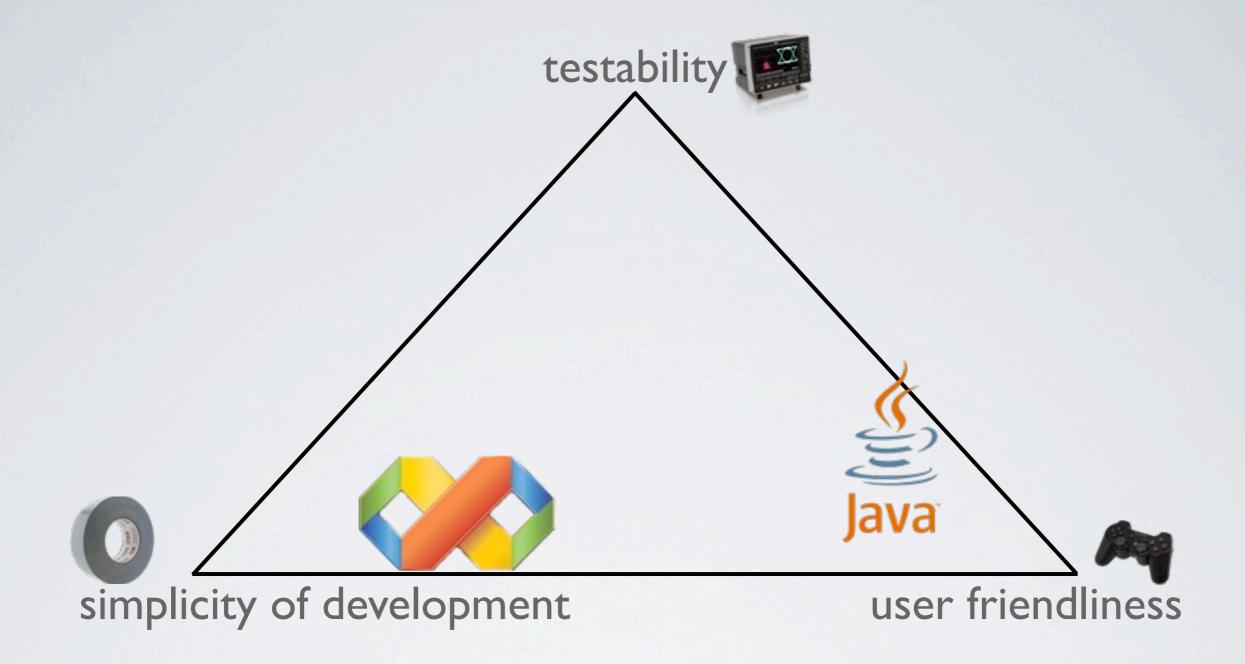
user friendliness



testability

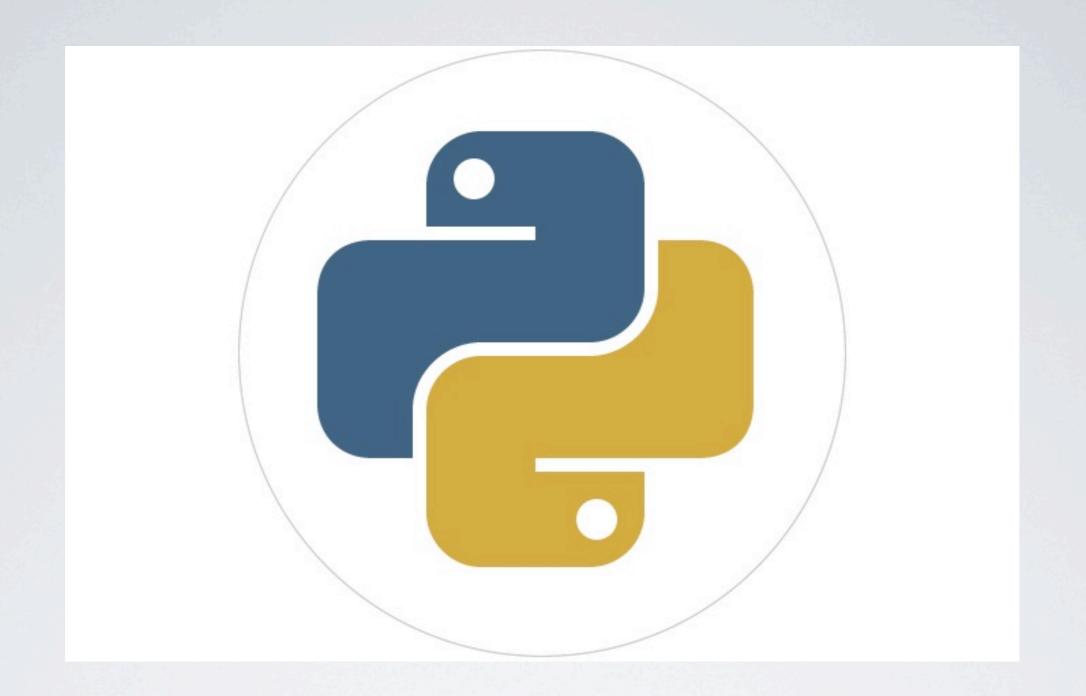


simplicity of development



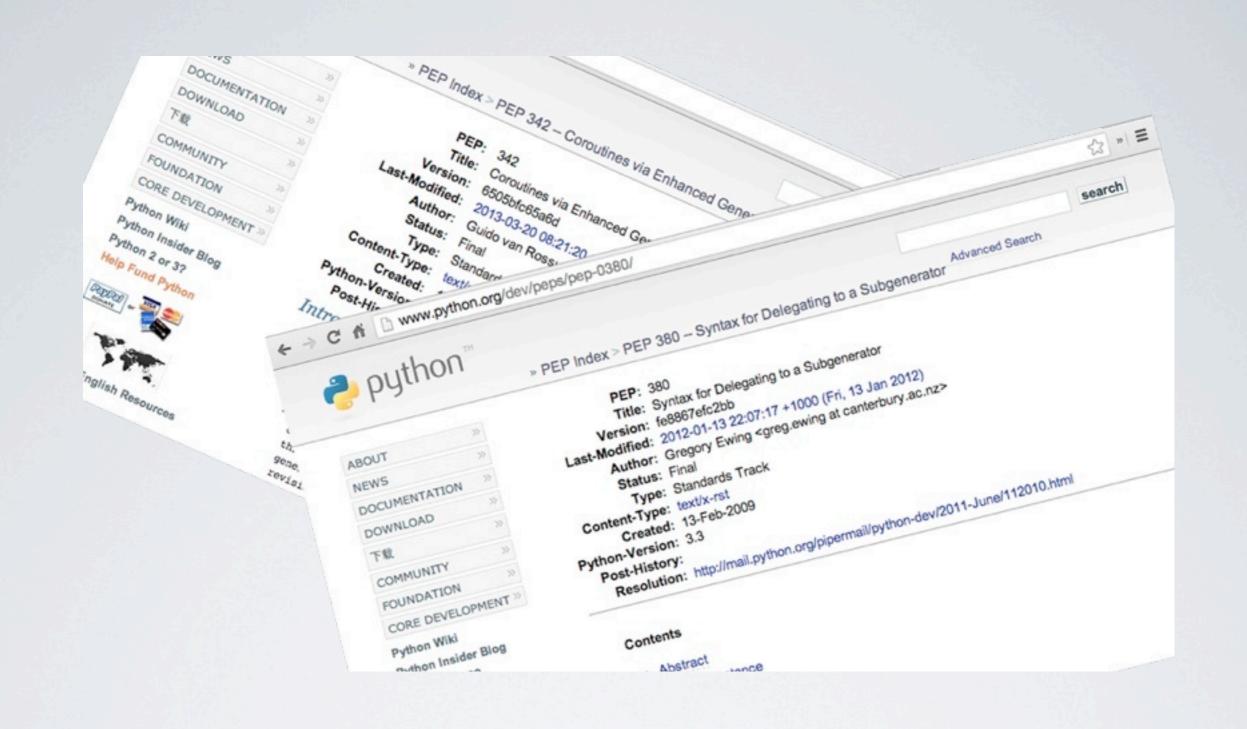
BALANCE

java



PYTHON

unique language features



Simple generators



Coroutines via Enhanced Generators

- I. Redefine 'yield' to be an expression
- 2. Add a new send() method
- 3. Add a new throw() method
- 4. Allow "yield" to be used in try/finally blocks

Coroutines via Enhanced Generators



An application as a series of action steps



PEP 342 EXAMPLE APPLICATION

select a file

- ChangeObject
- PrintJinjaTemplate
- Refresh

- ChangeObjects
- OpenFile

OpenFormView

PrintChart

OpenStream

ShowPixmap

PrintPreview

- OpenJinjaTemplate
- ShowChart

• PrintHtml

CloseView

SelectFile

MessageBox

SelectObject

ACTION STEPS

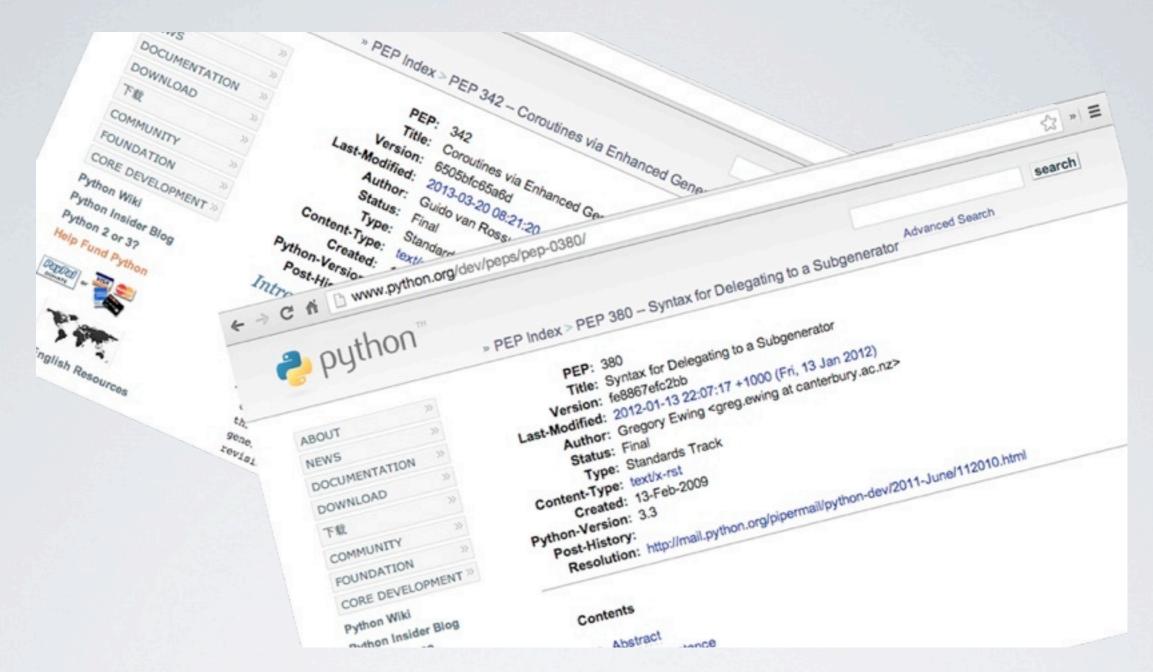
out of the box in Camelot





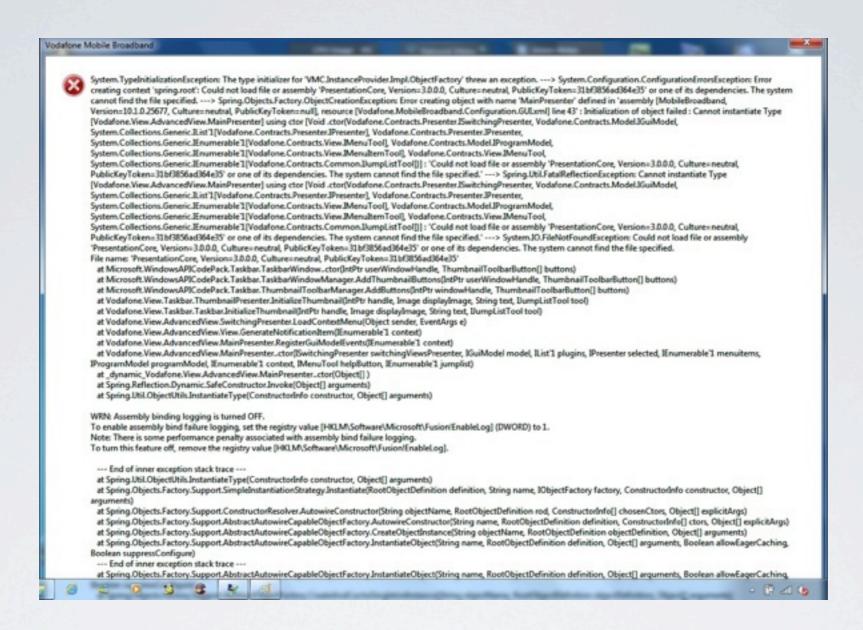
EVENT LOOP INTEGRATION

Using multiple threads to prevent freezes



event loop integration EXAMPLE APPLICATION

import data



EXCEPTIONS

wait ... what?



EXAMPLE APPLICATION

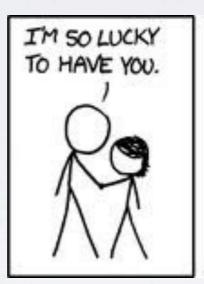
user cancels import

get_collection

• get_selection

get_object

obligatory xkcd comic







WHAT'S THE CONTEXT

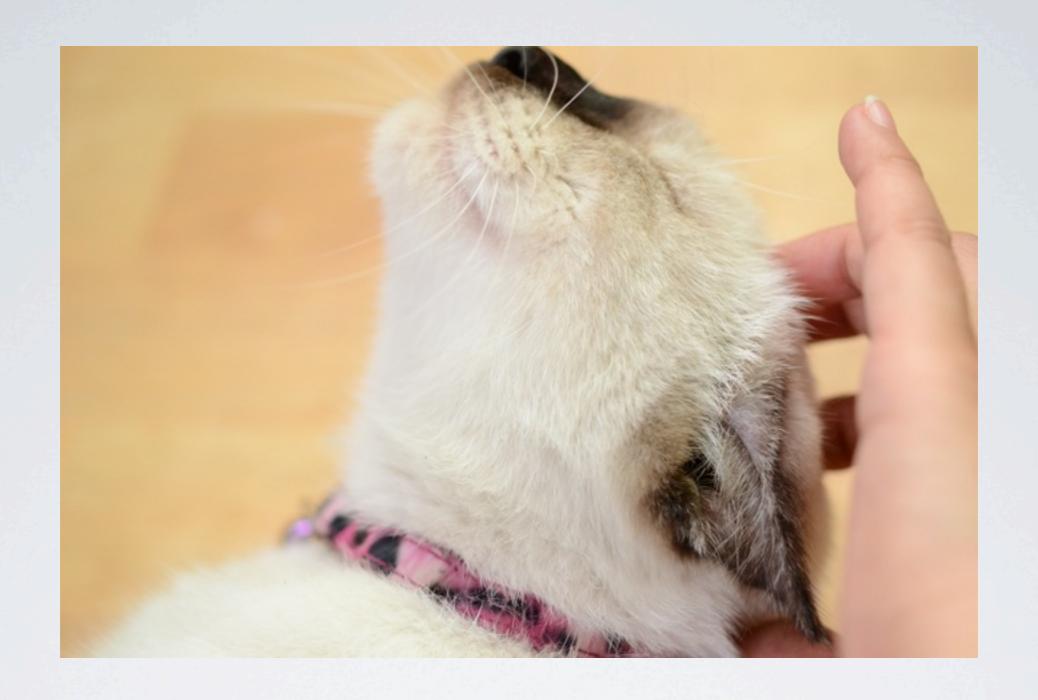


TESTABILITY

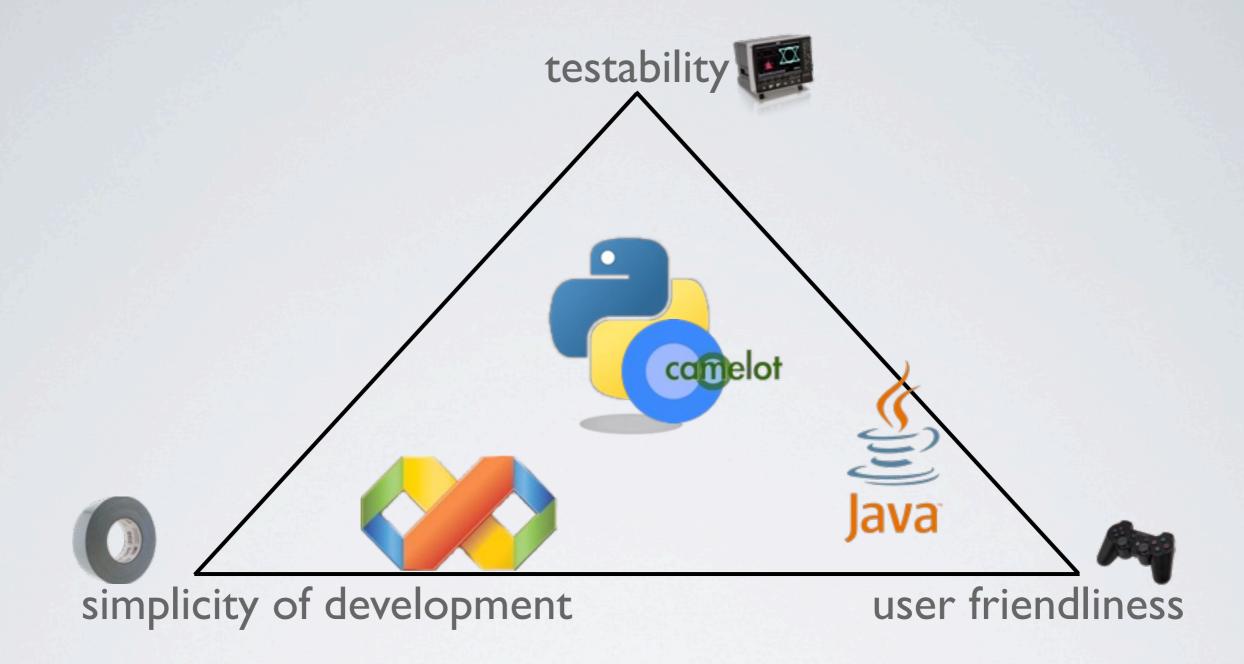


UNITTESTING

example application in action and code ...

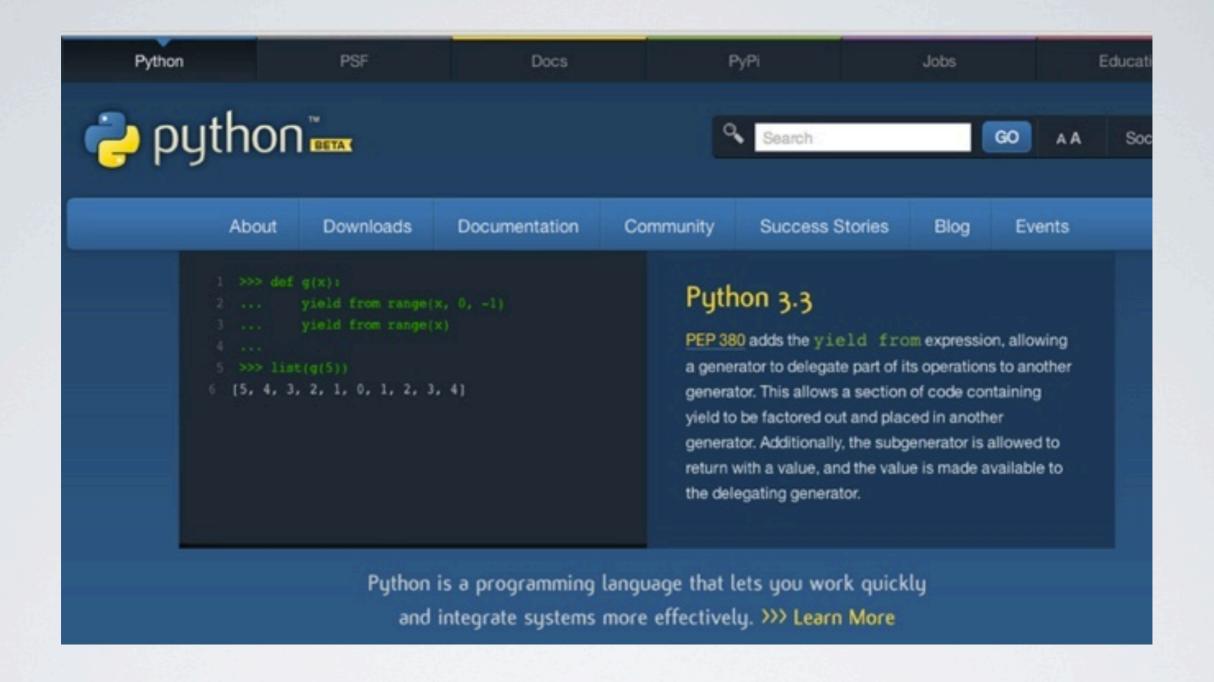


THE SWEET SPOT



BALANCE

python (camelot)



delegating to a subgenerator

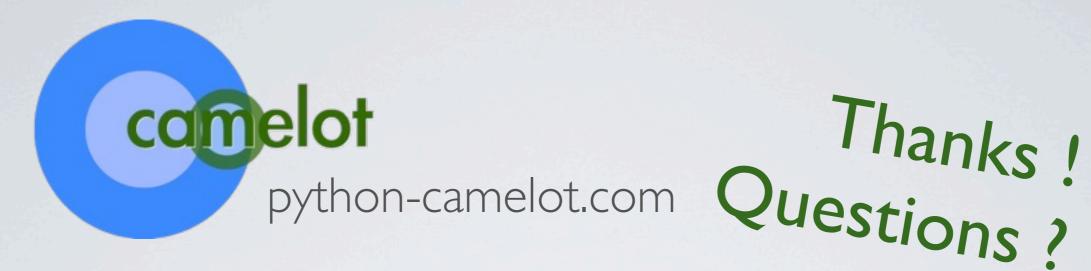


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THE NEXT ITERATION OF YOUR GUI

PEP 342 (Coroutines via Enhanced Generators) PEP 380 (Syntax for Delegating to a Subgenerator)

We're hiring!



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