Improving Quality Team Coding Skills with Code Clubs

Dwayne & Kevin. Testers at CrowdCompass by Cvent.
What ways are you using to learn coding?
Who else is doing it?

https://www.youtube.com/watch?v=mW_xKGUKLpk
About us
Recipe

why we did it
how you can do it
what we got out of it
what the company got out of it
next steps
Kevin’s reason

- Write more automation.
Dwayne’s reason

- Engaged with development discussions
- Resilient skills: learning to read and write code.
Company’s reason

- Better tests against application
- Better code in automated tests
why we did it

**how you can do it**

what we covered

what the company got out of it

next steps
So I started a Code Club*.
Keep meetings regularly
Document conversations casually
100 Lines of Code
for code in codeclub_ids:
    if i % 100 == 0:
        print i
    i += 1

codeclub_dict = {}
    r = requests.get("%s&jvid=%s" % (base_url, code))
soup = BeautifulSoup(r.text)
codeclub_dict["employer_name"] = soup
    codeclub_dict["position_title"] = soup
    codeclub_dict["position_location"] = soup
The developers helped, too
Grassroots efforts
Recipe

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Fun Stuff
Webscrapers:
* Second Chance - government jobs
* Amazon Scraper - Now a python package
* Craigslist Scraper - apartment keywords

Timesavers:
* Dirmon - folder monitor utility

Games:
* Several under discussion
* Rails file structure

* Routes.rb

* Rspec

* Swift unit tests

* Login (future):

* Javascript and front-end apps
How many of you could describe the infrastructure of your application?
Best Practices: Design Patterns
Model View Controller Pattern
Encapsulation

Please explain the picture.
Snippets: Tasty little morsels of code
The only 'trick' I know that really wowed me when I learned it is enumerate. It allows you to have access to the indexes of the elements within a for loop.

```python
>>> l = ['a', 'b', 'c', 'd', 'e', 'f']
>>> for (index, value) in enumerate(l):
...     print(index, value)
...
0 a
1 b
2 c
3 d
4 e
5 f
```

1 Its quite amusing when Java/C programmers always have the indexes with for(n=0;n<l.length;n++) -- Unknown Mar 29 '09 at 6:00

16 No need to put index, value in parentheses. Also, the above comment is naive/ignorant. -- FogleBird Jul 12 '09 at 13:50

i love enumerate -- AnojiRox Aug 16 '12 at 16:38
Get all links from a web page:

```python
import httplib2

from BeautifulSoup import BeautifulSoup, SoupStrainer

http = httplib2.Http()

status, response = http.request('http://www.nytimes.com')

for link in BeautifulSoup(response, parseOnlyThese=SoupStrainer('a')):
    if link.has_attr('href'): print link['href']
```
Command Line Interface Creation Kit

$ click_
$ python hello.py --help

Usage: hello.py [OPTIONS]

Simple program that greets NAME for a total of COUNT times.

Options:

--count INTEGER  Number of greetings.
--name TEXT      The person to greet.
--help           Show this message and exit.
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Reason 3

Good for the company

Good for the participants
Benefits brought to you in part by code club

- More automated tests
- More coding testers
- More utility scripts
- More crossfunctional interaction
- More lunchtime learning activities
- Better Tests
Everybody’s Writing Code
Recipe

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Mostly we plan to keep on
Code bases keep growing

Github
Automated Tests
CrowdCompass Apps
Handy Scripts
API Clients

We have unlimited resources
We’re open to new ideas
Dwayne has learned a lot about programming. Kevin continues to get better at writing automated tests. The CrowdCompass automated test suite continues to grow.