

Putting it all together

Why Software Carpentry?



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...SCIENTISTS AND THEIR SOFTWARE

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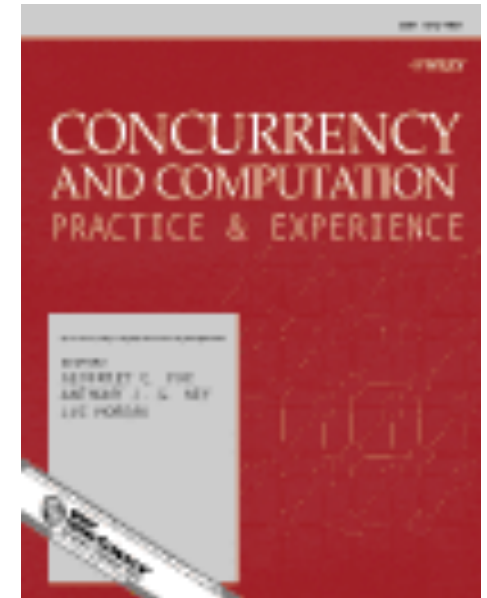
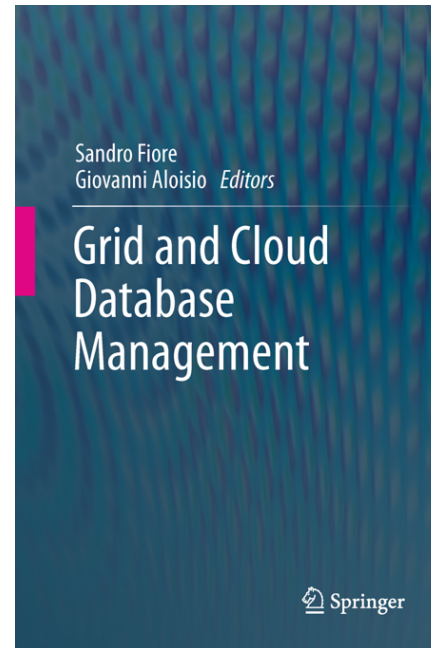
> Only **47%** of scientists have a good understanding of software testing.

> Only **34%** of scientists think that formal training in developing software is important.

Images by Greg Wilson and Neil Chue Hong. Data from Hannay et al, "How Do Scientists Develop and Use Scientific Software?"

SECSE '09 Proceedings of the 2009 ICSE Workshop on Software Engineering for Computational Science and Engineering, IEEE Computer Society, 2009. DOI: 10.1109/SECSE.2009.5069155

Software development \neq research software carpentry



Remember Geoffrey Chang!



We wish to retract our research article ... and both of our Reports...

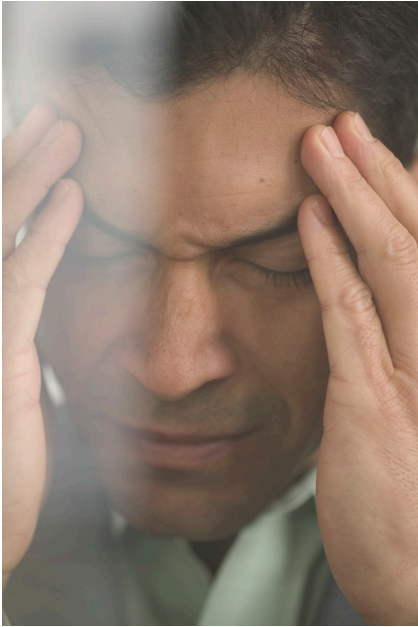
An **in-house data reduction program** introduced a **change in sign** for anomalous differences...

Unfortunately, the use of the multicopy refinement procedure still allowed us to obtain reasonable refinement values for the **wrong** structures.

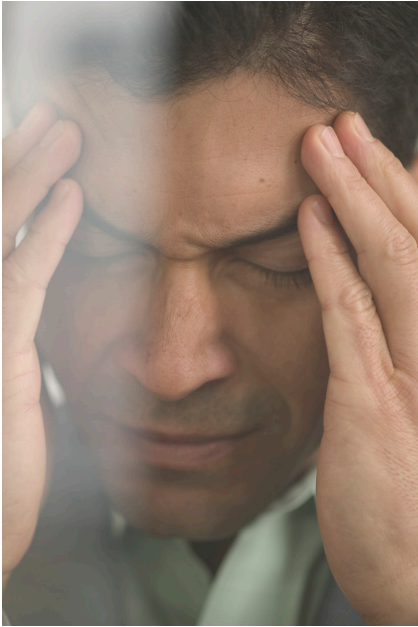


Correctness isn't compelling, so...  software carpentry

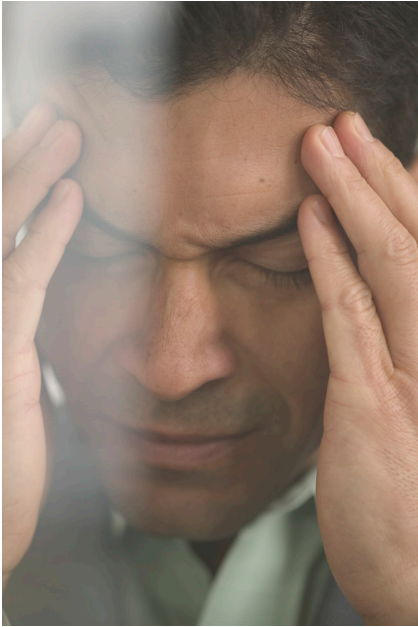
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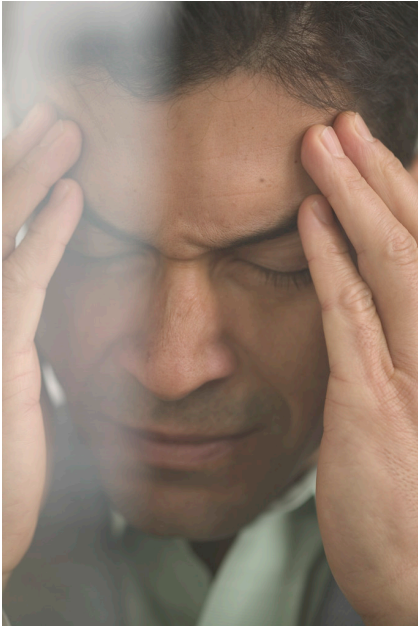
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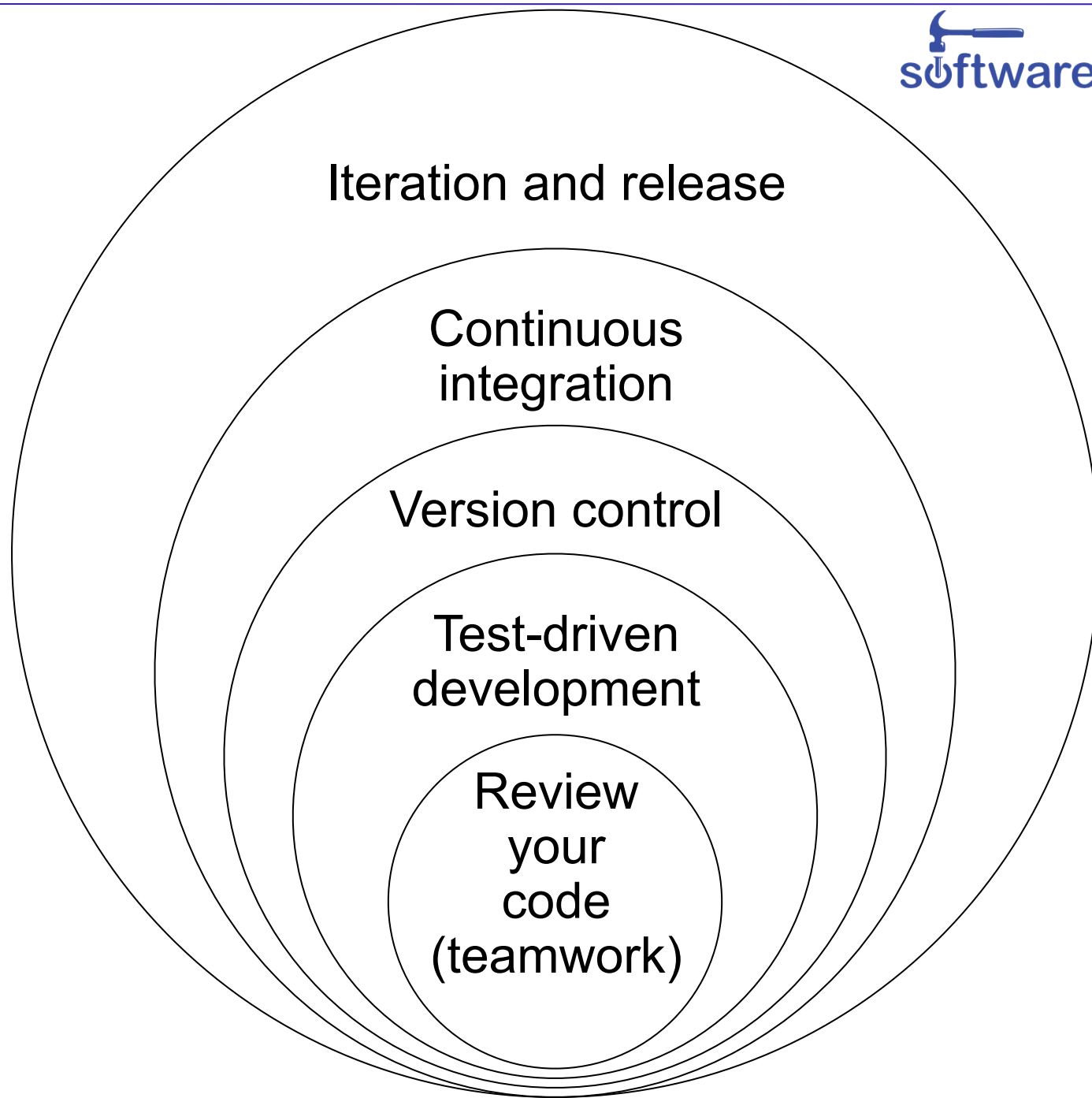
Correctness isn't compelling...

```
configure.sh  
build.sh  
install.sh
```

```
history  
!123  
history | grep 'ssh'
```



```
filename = "data.txt"  
source = open(filename, 'r')  
actual_count = 0  
expected_count = None  
# Count number of data records.  
for line in source:  
    if line.startswith('#-'): # Number of records  
        trash, expected_count = line.split()  
        expected_count = int(expected_count)  
    if line.startswith('#'): # Skip comments.  
        pass  
    elif line.startswith('D'): # Skip title line.  
        pass  
    else:  
        actual_count += 1  
source.close()
```



Have your say...

Iterative development does not just
apply to software

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so

what did you think of this boot camp?

current activity:

135 instructors
(30, training)

115 bootcamps

3500 learners



Slide from: <http://www.slideshare.net/kaythaney/upping-our-digital-literacy-okcon>

Want to get involved?



admin@software-carpentry.org

<http://software-carpentry.org/bootcamps>