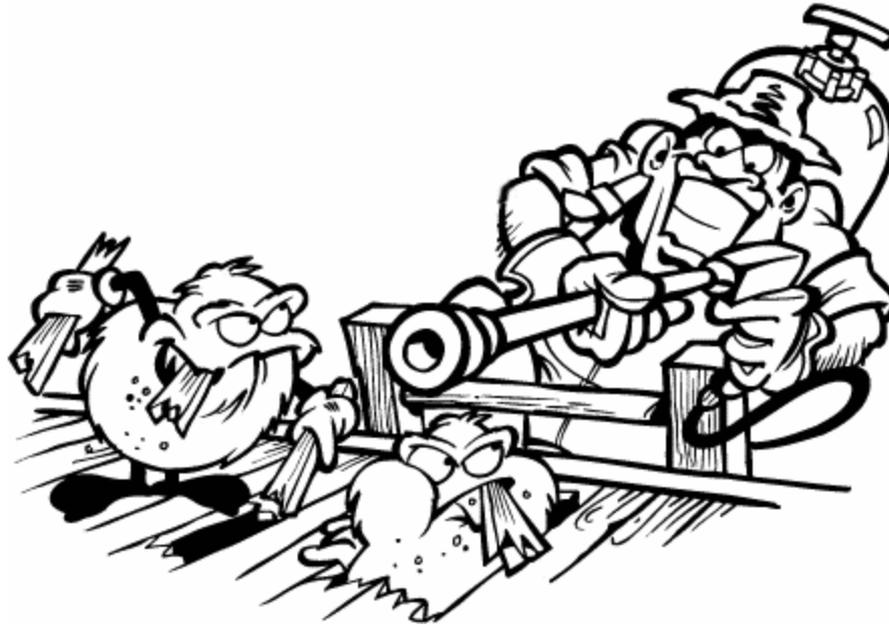


So your code doesn't work
Now what?



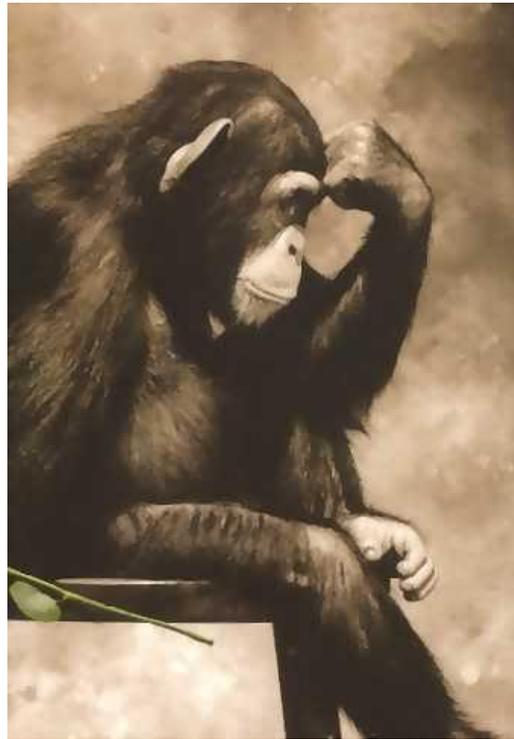
Basic Debugging



(C)Disney



Think before you
change your code



Be a scientist

1. Observe
2. Develop a hypothesis about what is wrong
3. Come up with a change to test that hypothesis
4. Make that change (and no others)
5. Determine if it produces the expected result
6. If so – great
7. If not
 - ▶ Did it fix a different problem?
 - ▶ If so – keep the change and develop a new hypothesis
 - ▶ If not – reverse the change and develop a new hypothesis



1. Do not change more than one thing at a time
2. Do not change something without a reason



Observation

1. Read the error message
2. Talk through your code
3. Observe what your code is doing



Read the error message

NameError: name 'y' is not defined
File "C:\path\to\buggy_file.py", line 10,
in <module>



What went wrong

Where did it go wrong



Talk through your code

- ▶ What is your code actually doing – in words?
- ▶ Is that what it should be doing?



Get more information

- ▶ What are do the variables look like as your code is running?
- ▶ Amateur
 - ▶ Print statements
- ▶ Professional
 - ▶ Debugger

