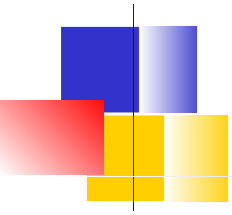

Feedback on Quiz 2

Responsibilities of a Scrum Master

Some key ones:

- Facilitate release planning
- Ensure team has resources they need
- Remove impediments, protect team from distractions

Not:

Assign tasks to team- *agile teams are self-organizing*

Assign priorities - *product owner & dev team do it*

Why Command Line Matters

Cloud Deployment & DevOps

1. A remote shell (ssh) may be your only interface to the server.

2. Cloud service may expect a "script" to install and configure software, initialize database, and start your application.

   - script consists of commands
   - if script contains bugs it will cost money & time
   - Heroku and Travis-CI are script driven

Why Command Line Matters

Automate Tasks

1. A script can automate tasks that would take a long time to perform via GUI.

- monitor and rotate log files
- clean, filter, and format data before use

2. Clone all student repos from Github Classroom

- a Python script

The PATH Matters!

You should know...

- what is PATH used for?
- what uses the PATH?
- how can you view the path?
- how do you change the path?
- how can you be *hacked* if PATH is incorrect?

Where's my Python?

Is there a command to find out where (what directory) your python is?

Where's my Python?

Unix, Linux, and MacOS (probably):

```
# find "python" on your PATH.
cmd> which python
/usr/bin/python

# whereis command searches common directories and
# your search path for all matches
cmd> whereis python
python: /usr/bin/python3.7m /usr/bin/python3.7 /usr/
bin/python /usr/bin/python3.6 /usr/bin/python2.7
/usr/bin/python3.6m /usr/lib/python3.7
/usr/lib/python3.6 /usr/lib/python2.7 /etc/python3.7
/etc/python /etc/python3.6 /etc/python2.7
/usr/local/lib/python3.7 /usr/local/lib/python3.6
/usr/local/lib/python2.7 ...
```

Where's my Python?

Windows (but not exactly what we want):

```
# find location of executable "python" command:
cmd> where python.exe
C:\Programs\Python3.6\bin\python.exe

# Using Windows PowerShell
cmd> Get-Command python
```

Command Line Pros

Perfect Score on Q6 & Q7:

Sivanat

Tharathorn

Honorable Mention (almost perfect):

Chananchida

Thananan

Mail

Command Line Heroes

Redhat has a Podcast named "*Command Line Heroes*", in English.

Season 1: history of software development

Season 3: influential programming languages

```
Bash shell      Lisp & AI       Perl
Basic           Javascript
C               Python
COBOL & Infrastructure
```

Reality Check

Command Lines Basics was nearly same as Q6 and Q7 on Quiz 2.

Why the big difference in scores?

Student ID	Cmd Line Basics (18 pts)	Q6 + Q7 (8 pts)
6010545960	**17**	**0**
6110545422	**17**	**0**
6110546020	**16**	**0**
6110545481	**17**	**1**
6110545538	**18**	**1**
6110545571	**16**	**1**
6110545996	**15**	**1**
6110546402	**18**	**1**
6110546429	**18**	**1**

Real Work for Real Score

If your score on Q6 + Q7 is 0

then

your score on "*Command Line Basics*" is also 0.

Quiz 1 Reality Check

The unit testing assignment (Fraction) is *excellent* prep for Quiz 1. Why the big difference in scores?

Student ID	Fraction (20 pts)	Quiz 1 (30 pts)
xxxxxxxx03	19	**0**
xxxxxxxx81	18.5	**0**
xxxxxxxx54	18.5	**0**
xxxxxxxx20	18	**5**
xxxxxxxx78	17.5	**0**
xxxxxxxx57	17	**0**
xxxxxxxx01	16.5	**0**
xxxxxxxx31	14.5	**4**

Learning is Individual Effort

Help your friends learn by ...

- *not giving them the solution*
- *not sharing code*
- *refer them to TAs for help*

TAs and instructor are happy to help.

This is an opportunity to learn -- don't waste it.

Don't risk your friends' grade

- *if I detect copying, both the "source" and copier get F*

- no second chance