



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 (or any command) 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
6110546631	15	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
xxxxxxxx21	8.5	0

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*