0108–Software_Review_pre-class-assignment-INSTRUCTOR

January 3, 2019

In order to successfully complete this assignment you must do the required reading, watch the provided videos and complete all instructions. The embedded Google form must be entirely filled out and submitted on or before **11:59pm on Tuesday January 8th**. Students must come to class the next day prepared to discuss the material covered in this assignment.

1 Pre-Class Assignment: Software Review

2 Goals for today's pre-class assignment

0. What is FMOOWMP?
1. Introduction to Seven Dwarfs
2. Install required software
3. Test Install
4. Assignment wrap-up

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3 0. What is FMOOWMP?

Remember my office hours on Monday's and Wednesdays immediately after class until 3:30pm (or by appointment):

https://www.youtube.com/embed/yQq1-_ujXrM

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In [5]: from IPython.display import YouTubeVideo
        YouTubeVideo("yQq1-_ujXrM",width=640,height=360)

  Out[5]:
```

4 1. Introduction to Seven Dwarfs

In 2004 Phillip Colella introduced the Seven Dwarfs of computation. The following slides are from one of his courses on software engineering. There is a lot of interesting tidbits in these slides. Some/much of it you may not yet understand. Read though them and identify the terms and concepts you did not understand and the ones you find interesting:

   DO THIS: Read though Phillip Colella's 2013 "Software Engineering for Scientific Computing" Slides.

   DO THIS: These slides use a lot of jargon. Add words and phrases to the course Jargon Jar

   Question: What are the main points of Dr. Colella's Presentation?

   Put your answer to the above question here

5 2. Install required software

Over the semester we will be using a variety of software packages. Although the instructors has a few work arounds, your personal laptops will work best if you have the following installed:

- Latest Anaconda version of Python 3.x
- SSH and SCP client - pre-installed on Mac/Linux, Lots of options for Windows. Ex: MobaX-term