**OPER 782 Reading #1**

Read the Chapters 1, 2 and 6 of *Pro Git* prior to our first meeting on Monday, 8 Jan. The book can be accessed at the following URL – <https://git-scm.com/book/en/v2/>.

Along with the reading, I’ve assigned questions to approximately half of you to answer. Your answers should be written in an Rmarkdown file, using any type of presentation format (2-4 slides). In class, we’ll demonstrate the mechanics of Git/GitHub while collaboratively building a master presentation from your answers. Note: *Pro Git* is the definitive guide to Git – however I’m not asking you to read the entire book. With that said, *MOST* of the answers to the questions below can be found in the reading – you are encouraged to use other sources as well 😊.

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| Spencer Butt | What are version control systems (VCS)? |
| Jacob Elliott | Why should someone use a VCS? |
| James Gallagher | What is a centralized version control system (CVCS) and what are examples of CVCS? |
| Jake Johnson | What is a decentralized (aka distributed) version control system (DVCS) and what are examples of DVCS? |
| Nicholas Uhorchak | What are the advantages of using a DVCS instead of a CVCS? |
| Anthony Kallhoff | How do I install Git? (assume Mac/Windows OS) |
| Evan Munson | After installation is complete, how do I configure Git for use? (assume Mac/Windows OS) |
| Rachel Ramirez | How do I invoke the following Git commands – and what happens when I do?  - git init  - git clone  - git add  - git status |
| William Sevier | How do I invoke the following Git commands – and what happens when I do?  - git commit  - git push  - git pull  - git branch |
| Matthew Small | All git repos contain a .git directory – what do the files in this directory do? |
| Alexander Trigo | I know that I can use Git from the command line, but I’m not really a fan of it – are there other ways to use Git? |
| Jeffrey Smith | What is a remote is and how to add a one to a Git repo? |
| Sean Stuntz | How do I create a GitHub account and profile? |