MIS 407

Week 1, Class 2

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For Today…

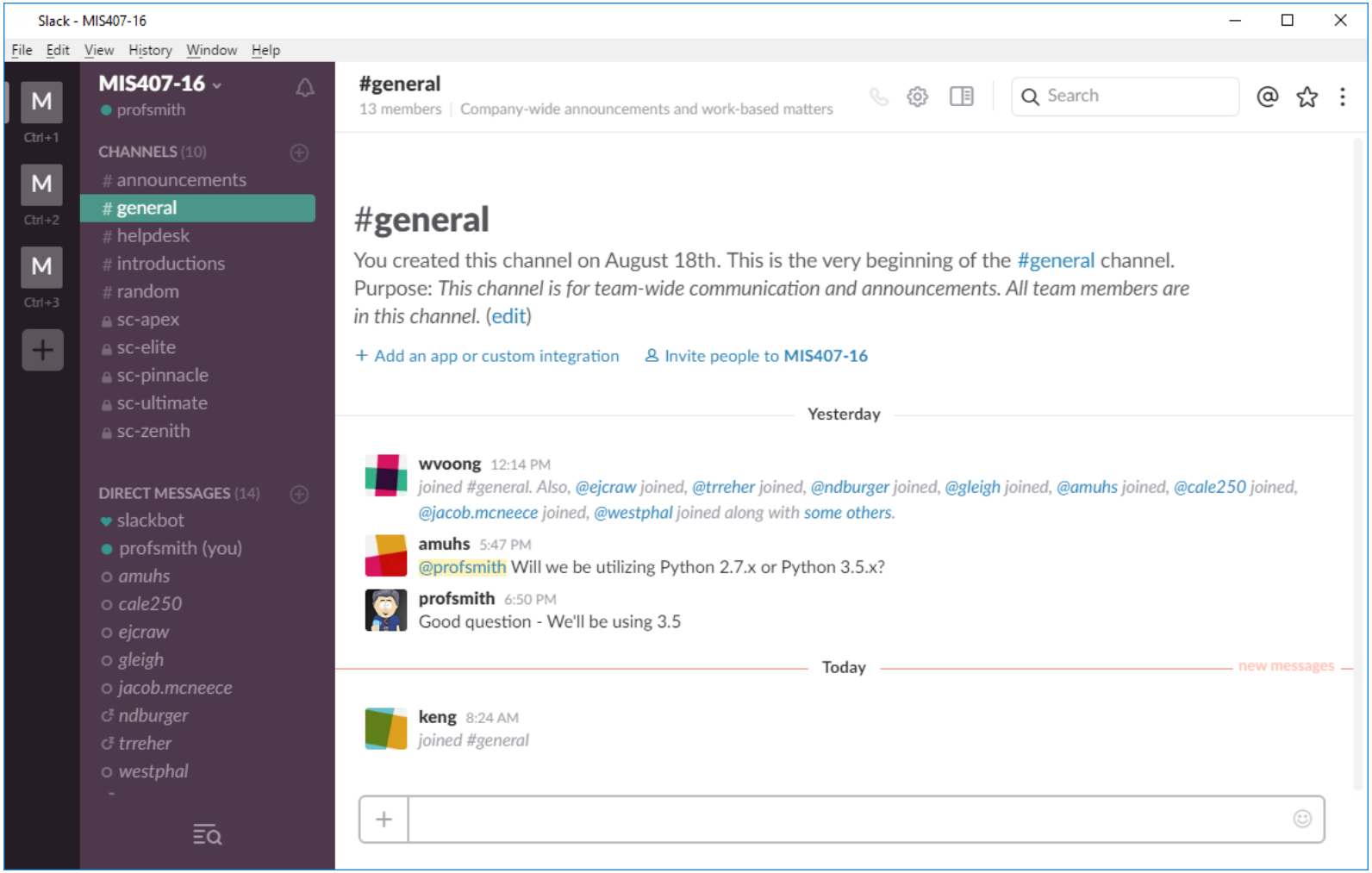
- Python 2.7.x versus 3.5.x
- Revisit: GitHub and Slack accounts.
- Review Slack
- Introduce Git
- Assign teams

Python versions

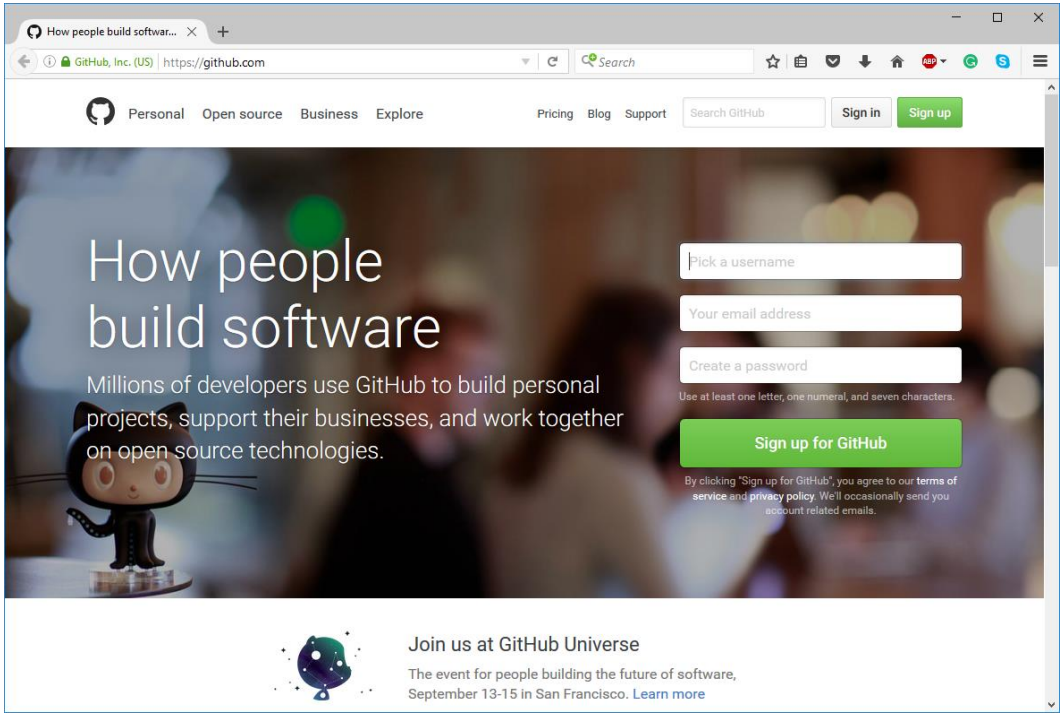
In MIS407 - We will only use **Python 3.5.x**

- There are two current versions of Python 2.7.x and 3.5.x.
- Why is this?
  - In Python 3 broke backward compatibility.
    - This was necessary to clean up and advance the language.
    - The downside, the huge code base of version 2 python would need to be rewritten (updated really).
    - Thus, Python 2 lives on much longer that it probably should have.
- Python 2
  - now only receives security and bug fixes – no new functionality will be added.
  - EOL Date (End of Life) for 2.7 is 2020. No fixed/updates after that.

Let's all get Slack…



Get your GitHub account!



If you haven't already done so **You must create your account, and send me your username ASAP!**

Intro to Git

- Git is a VCS (version control system).
- Most large, multi-member, group projects will use some form of VCS
- Git is one of the most popular.

History of Git

- Developed by Linus Torvalds (Linux Fame)
  - He wasn't happy with existing VCS's
  - They had a number of problems, and were generally slow and cumbersome.
  - He hated existing VCS so much that he didn't even use them in his Linux Kernel project
    - He used tar balls and patches – a rather "manual" method.

Why Git

- Our projects really won't be that large, so why?
  - Group work
  - The power of "versioning"
  - MOST importantly, it's a key means through which to participate in a programming community.

See 7:13 onward of … https://www.youtube.com/watch?v=Vo9KPk-gqKk

Intro Concepts

- A “repo” is a repository of your code who’s state is managed by Git.
- Files are tracked, untracked, or ignored.
- There are multiple Git clients out there, we will use the official release from

  www.git-scm.com.

NOTE: We will only be using the command land version. Knowing the command line version will allow you to more fully understand and control Git.

General Process

- Initialize a repo
- Add .gitignore file – if necessary
- Add any untracked files to the “staging area”.
- Commit changes to the repo when you’re satisfied with changes.

Let's try this now…

- Got to our GitHub team site…
- Work through the following:
  - git_basic_local_workflow.md
  - git_experimental_branch.md
  - git_rollback.md

Let's now assign teams…

- Team building skill is an essential part of being an effective employee.
- In the "real world" your rarely get to choose who you work with on a team.

<<bring up spreadsheet… and randomize the list to choose team members>>

- By next class…
  - If haven't already…
    - Create a GitHub account, and email me your userID
    - Join our MIS407 "Slack" team and introduce yourself to the class and to your team
- During Next class…
  - We'll work on using Git and GitHub
  - I'll spend time introducing our Python programming environment and workflow