

Week 9

UP2

Github

Sign up: <https://github.com/>

Install Git bash : <https://git-scm.com/downloads>

Register github & install Git bash

Sign up: <https://github.com/>

Username

Email
 ✓

Password

Use at least one letter, one numeral, and seven characters.

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy policy](#). We'll occasionally send you account related emails.

Install Git bash : <https://git-scm.com/downloads>

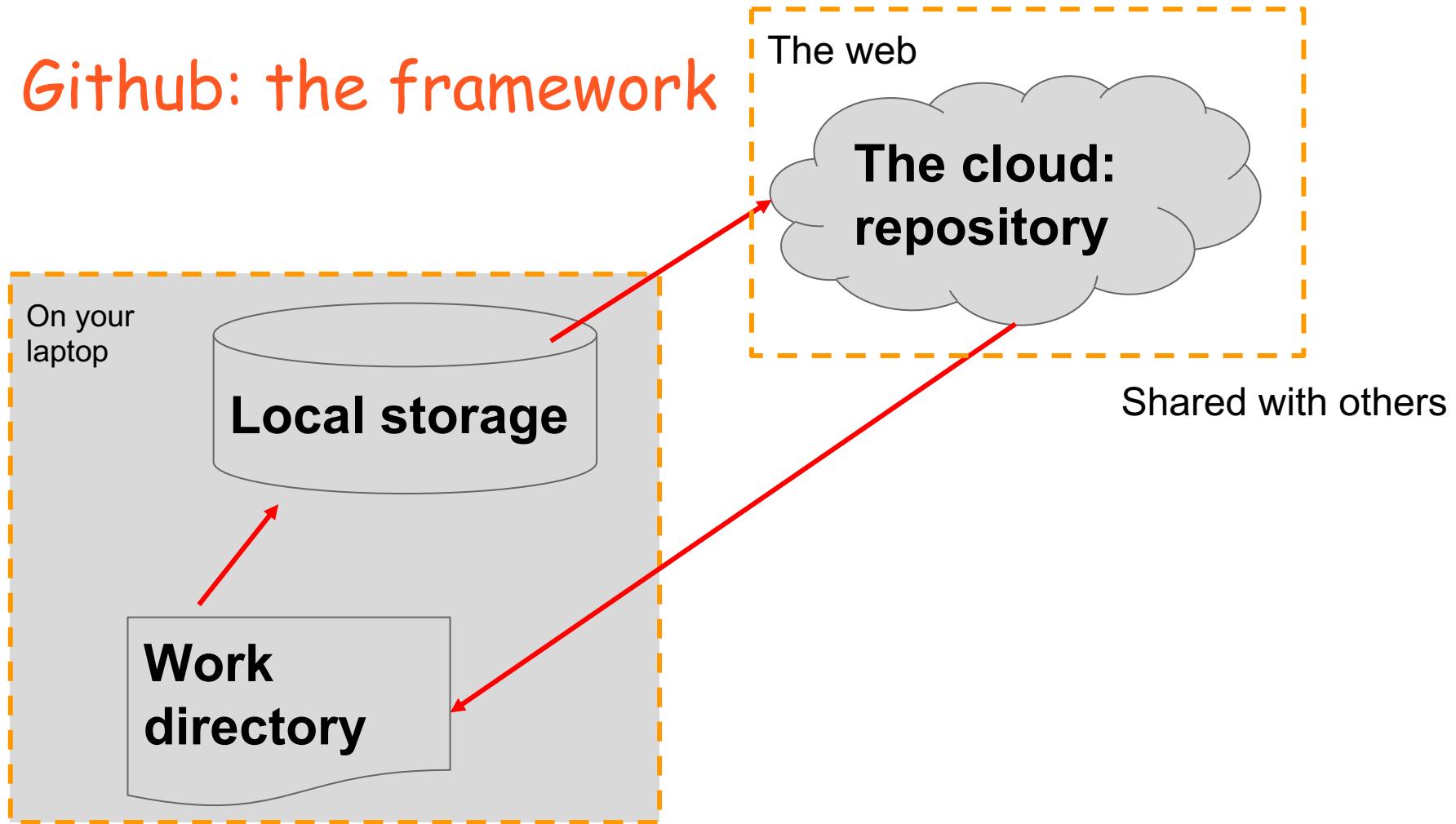
Downloads

 Mac OS X  Windows
 Linux/Unix

Older releases are available and the [Git source repository](#) is on GitHub.

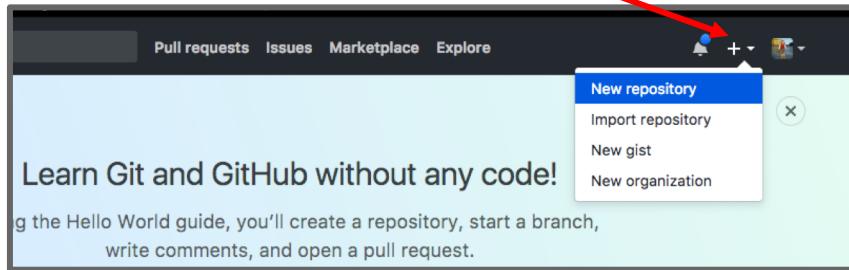


Github: the framework



Create your first repository: "hello-world"

Step1: click the “+” on the right up corner



Create a new repository

A repository contains all the files for your project, including the revision history.

Owner: hogwild / Repository name: hello-ICS

Great repository names are short and memorable. Need inspiration? How about [ubiquitous-rotary-phone](#).

Description (optional):

Public: Anyone can see this repository. You choose who can commit.

Private: You choose who can see and commit to this repository.

Initialize this repository with a README: This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None | Add a license: None

Create repository

Step2: give a name

Step3: click, to finish

git clone: copy your repository to your laptop

Step1: open the terminal from launch pad (Git bash for windows user). Input: `cd ~/Desktop`

```
NYUSH1742LP-MX:~ xg7$ ls
AnacondaProjects      Dropbox          Pictures
Applications          Google Drive       Public
Desktop                Library          anaconda
Documents              Movies           spyder_crash.log
NYUSH1742LP-MX:Desktop xg7$ cd ~/Desktop
NYUSH1742LP-MX:Desktop xg7$ git clone https://github.com/hogwild/hello-ICS.git
Cloning into 'hello-ICS'...
warning: You appear to have cloned an empty repository.
NYUSH1742LP-MX:Desktop xg7$
```

[hogwild / hello-ICS](https://github.com/hogwild/hello-ICS)

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Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH <https://github.com/hogwild/hello-ICS.git>

We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# hello-ICS" >> README.md
git init
git add README.md
git commit -m "First commit"
git remote add origin https://github.com/hogwild/hello-ICS.git
git push -u origin master
```

Step2: Copy the URL of your repository

Step3: in the terminal, input: `git clone` (then, command + v)

Your hello-world will appear on the desktop



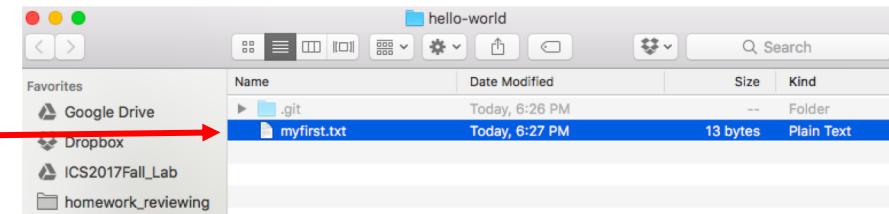
Create a file for your repository

Step1: create a file, named, “**myfirst**” in your **hello-world folder**.

Using the terminal, input:

cd hello-world

echo “hello world.” >> myfirst



Step2: check the changes in the folder.

In the terminal, Input: **git status**

Red file name means it is uncommitted

```
[NYUSH1742LP-MX:hello-world xg7$ echo "Hi world." >> myfirst
[NYUSH1742LP-MX:hello-world xg7$ git status
On branch master
Your branch is up-to-date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)

    myfirst
    mysecond

nothing added to commit but untracked files present (use "git add" to track)
NYUSH1742LP-MX:hello-world xg7$
```

Create a file for your repository

```
[NYUSSH1742LP-MX:hello-world xg7$ git add myfirst ←  
[NYUSSH1742LP-MX:hello-world xg7$ git commit -m "my first file"  
[master 53dc972] my first file  
 1 file changed, 1 insertion(+), 1 deletion(-)  
[NYUSSH1742LP-MX:hello-world xg7$ git push  
Counting objects: 3, done.  
Delta compression using up to 4 threads.  
Compressing objects: 100% (2/2), done.  
Writing objects: 100% (3/3), 322 bytes | 322.00 KiB/s, done.  
Total 3 (delta 0), reused 0 (delta 0)  
To https://github.com/hogwild/hello-world.git  
 e288e91..53dc972 master -> master  
NYUSSH1742LP-MX:hello-world xg7$
```

git add myfirst

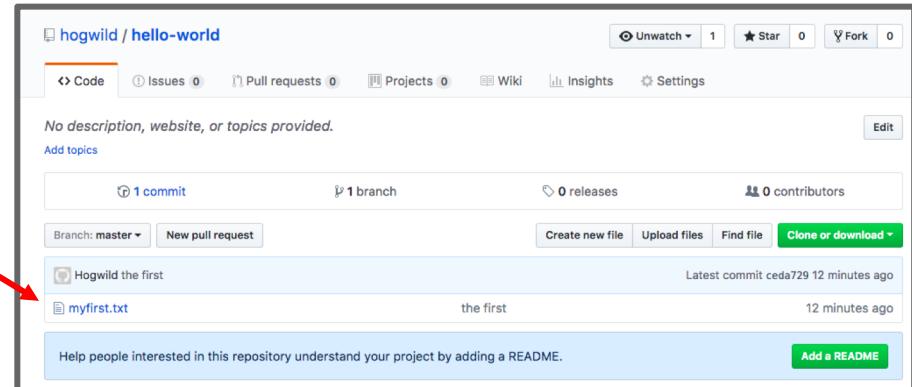
Put the file into the **local** storage

git commit -m “the first”
comments should be add to every commit

git push

Upload to the github web

myfirst appears here



Create a file in via the web

The screenshot shows a GitHub repository page for 'hogwild / hello-world'. The repository has 1 commit, 1 branch, 0 releases, and 0 contributors. A message at the top says 'No description, website, or topics provided.' and there is an 'Edit' button.

Below the repository stats, there are buttons for 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. A red arrow points from the text 'Add a Readme' to the 'Add a README' button.

The repository history shows a commit by 'Hogwild' titled 'Create README.md' made 12 minutes ago. Another commit by 'the first' titled 'myfirst.txt' was made 12 minutes ago. A red arrow points from the text 'Create new files' to the 'Create new file' button.

The repository content section shows a single file named 'README.md' with the content 'Hello world' and 'Hello github!'. There is also a file named 'myfirst.txt'.

At the bottom, there is a summary of the repository's status: 2 commits, 1 branch, 0 releases, and 0 contributors. It also includes the 'Create new file', 'Upload files', 'Find file', and 'Clone or download' buttons.

Add a Readme

Create new files

hogwild / hello-world

No description, website, or topics provided.

Code Issues Pull requests Projects Wiki Insights Settings

1 commit 1 branch 0 releases 0 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

Hogwild the first Latest commit ceda729 12 minutes ago

myfirst.txt the first 12 minutes ago

Help people interested in this repository understand your project by adding a README.

Add a README

2 commits 1 branch 0 releases 0 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

hogwild Create README.md Latest commit a636e56 just now

README.md Create README.md just now

myfirst.txt the first 17 minutes ago

README.md

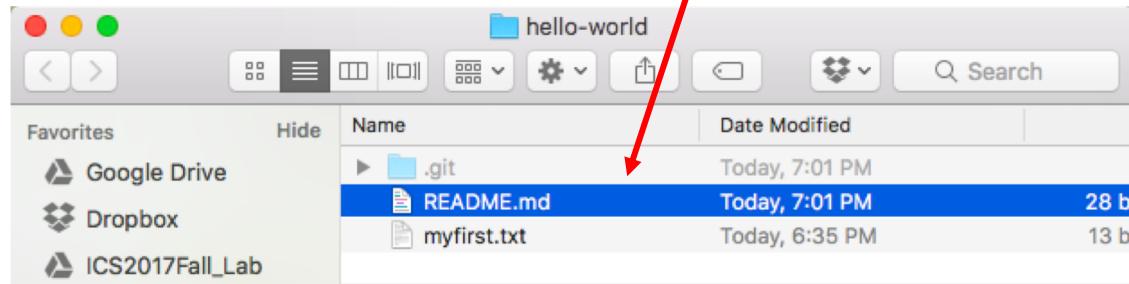
hello-world

Hello world

Hello github!

Pull back the files from the web

```
[NYUSH1742LP-MX:hello-world xg7$ git pull ← git pull
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/hogwild/hello-world
  ceda729..a636e56 master      -> origin/master
Updating ceda729..a636e56
Fast-forward
 README.md | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 README.md
NYUSH1742LP-MX:hello-world xg7$ ]
```



Settings

Step2:
Clicking the
Notification

Personal settings

- Profile
- Account
- Emails
- Notifications**
- Billing
- SSH and GPG keys
- Security
- Blocked users
- Repositories
- Organizations
- Saved replies
- Applications

Developer settings

Notifications

Choose how you receive notifications. These notification settings apply to the repositories you...

Automatically watch repositories

When you're given push access to a repository, automatically receive notifications for it.

Automatically watch

Participating

Notifications for the conversations you are participating in, or if someone cites you with an @mention.

Email Web

Watching

Notifications for all repositories or conversations you're watching.

Email Web

Email notification preferences

Default notification email

guxianbinmail@gmail.com

Choose which email updates you receive on conversations you're participating in or watching

Comments on Issues and Pull Requests

Pull Request reviews

Pull Request pushes

Signed in as hogwild

Your profile

Your stars

Your Gists

Help

Settings

Sign out

ind file

Clone or download ▾

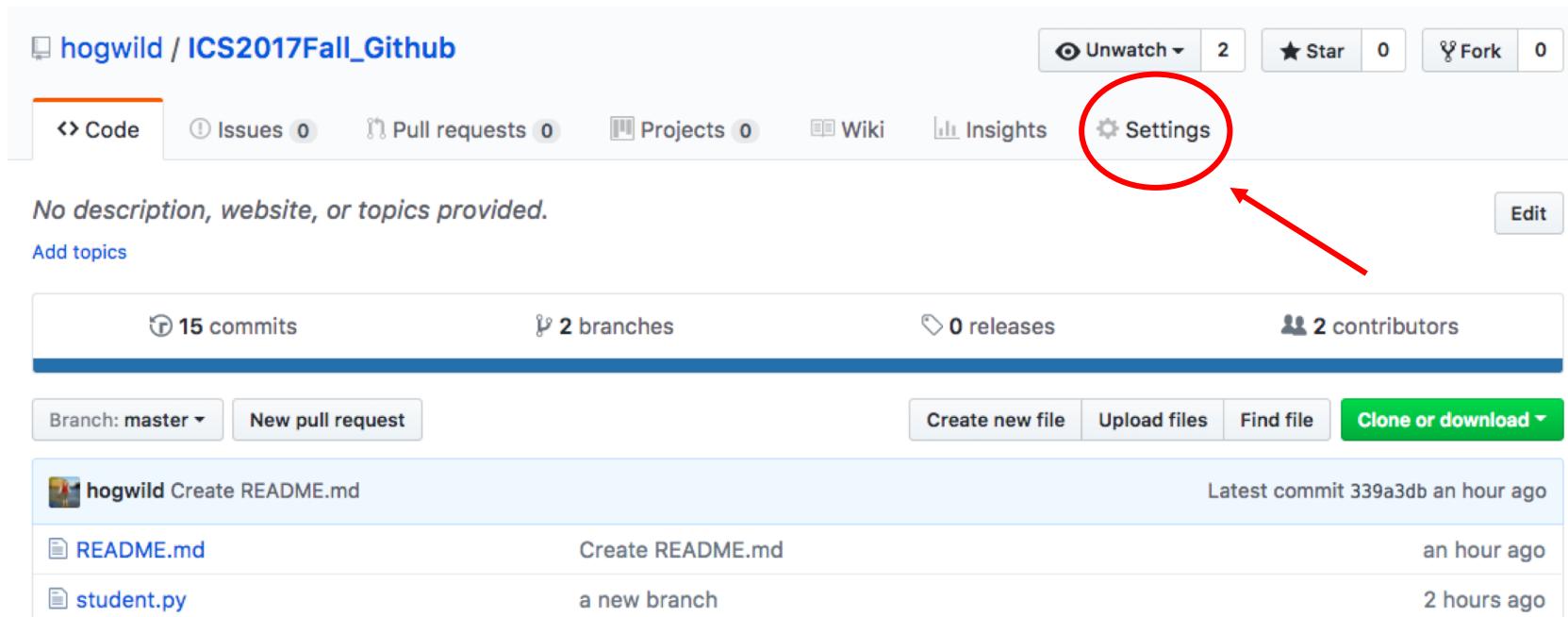
Step3: active
the Web

Step1:
Click the
settings

Prep:

Collaborator

- Form groups: 2 or more people
- One team member create a new repository



hogwild / ICS2017Fall_Github

Unwatch 2 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

No description, website, or topics provided.

Add topics

15 commits 2 branches 0 releases 2 contributors

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

hogwild Create README.md

Latest commit 339a3db an hour ago

File	Action	Time
README.md	Create README.md	an hour ago
student.py	a new branch	2 hours ago

[Code](#) [Issues](#) [Pull requests](#)[Actions](#)[Projects](#)[Wiki](#)[Security](#)[Insights](#)[Settings](#)

Options

[Manage access](#)[Security & analysis](#)[Branches](#)[Webhooks](#)[Notifications](#)[Integrations](#)[Deploy keys](#)[Secrets](#)[Actions](#)[Moderation settings](#)

Who has access

PUBLIC REPOSITORY



This repository is public and visible to anyone.

[Manage](#)

DIRECT ACCESS



0 collaborators have access to this repository. Only you can contribute to this repository.

Manage access



You haven't invited any collaborators yet

[Invite a collaborator](#)

The email address

Working with the terminal

- cd ~/Desktop
- git clone [the URL of your repository]

The owner: Please copy a file (any file) into the git folder, then,

- git status to check the files in the folder
- git add [file name]
- git commit -m " create by [your name]"
- git push

When the above is done,

Note: you can also create your own files, and push it to the repository!



The others:

- git pull

Please do some modifications on the file.

- git status
- git add [file name]
- git commit -m "modified by [yourname]"
- git push

One thing:

- You modified the file, **but** the other people **also** did some modification on the **same** file and pushed it to the repository **before** you did it. Then, you will get such message in the terminal:

```
NYUSH1742LP-MX:ICS2017Fall xg7$ git push
To https://github.com/hogwild/ICS2017Fall.git
! [rejected]      master -> master (fetch first)
error: failed to push some refs to 'https://github.com/hogwild/ICS2017Fall.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
NYUSH1742LP-MX:ICS2017Fall xg7$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

```
NYUSH1742LP-MX:ICS2017Fall xg7$ git pull
remote: Counting objects: 9, done.
remote: Compressing objects: 100% (6/6), done.
[remote] Total 9 (delta 4), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (9/9), done.
From https://github.com/hogwild/ICS2017Fall
  2897223..349ea8a  master      -> origin/master
 * [new branch]  cc-branch  -> origin/cc-branch
Auto-merging student.py
[error: There was a problem with the editor 'vi'.
Not committing merge; use 'git commit' to complete the merge.
[NYUSH1742LP-MX:ICS2017Fall xg7$ git pull
[error: You have not concluded your merge (MERGE_HEAD exists).
hint: Please, commit your changes before merging.
fatal: Exiting because of unfinished merge.
NYUSH1742LP-MX:ICS2017Fall xg7$ git commit
error: There was a problem with the editor 'vi'.
Please supply the message using either -m or -F option.
NYUSH1742LP-MX:ICS2017Fall xg7$ git commit -m "the modification of hogwild"
```

You might get problem with vi.
Now worries, input ":q" to quit vi.

Try the following:

Don't forget the message!

fork: the “Deep copy” of a repository



Kunena / Kunena-Forum

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Fork 464

Create a new branch with git and manage branches

jorgeso edited this page on 3 Aug · 14 revisions

Reproducing a repository to your github account

This repository Search Pull requests Issues Marketplace Explore

hogwild / Kunena-Forum forked from Kunena/Kunena-Forum

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Unwatch 1 Star 0 Fork 465

Kunena Forum - Forum / Bulletin Board / Discussions component for Joomla - This is the 5.x main development branch. Please do not open issues regarding earlier versions of Kunena <https://www.kunena.org>

Add topics

UP2: group management

- It is another building block of the chat system
 - Allowing users to join a group, connect and disconnect to one another

```
In [27]: g = Group()  
  
In [28]: g.join("Donald Trump")  
  
In [29]: g.join("Anthony Fauci")  
  
In [30]: g.join("Boris Johnson")  
  
In [31]: g.connect("Boris Johnson", "Donald Trump")  
Donald Trump is idle as well  
['Boris Johnson', 'Donald Trump']  
  
In [32]: g.connect("Anthony Fauci", "Donald Trump")  
Donald Trump is talking already, connect!  
['Anthony Fauci', 'Boris Johnson', 'Donald Trump']
```

- You need to complete several methods in the `Group` class
- Please read the specification carefully

UP2: group management

```
class Group:

    def __init__(self):
        self.members = {}
        self.chat_grps = {}
        self.grp_ever = 0

    def join(self, name):
        self.members[name] = S_ALONE
        return

    def is_member(self, name):

        # IMPLEMENTATION
        # ---- start your code ---- #
        return False
        # ---- end of your code --- #
```

members: dictionary which maps user name to user status

chat_grps: dictionary which maps group ID to a list of members in the group.

UP2: group management

```
def connect(self, me, peer):
    """
    me is alone, connecting peer.
    if peer is in a group, join it
    otherwise, create a new group with you and your peer
    """
    peer_in_group, group_key = self.find_group(peer)

    # IMPLEMENTATION
    # ---- start your code ---- #
    pass
    # ---- end of your code --- #
    return

# implement
def disconnect(self, me):
    """
    find myself in the group, quit, but stay in the system
    """
    # IMPLEMENTATION
    # ---- start your code ---- #
    pass

    # ---- end of your code --- #
    return
```

- In `connect()`, you need to create a new group if you and the peer are both idle.
- In `disconnect()`, you have to delete a group if it only has one member.

UP2: group management

Hints:

- Review the syntax of dictionary and list;
- Go step by step, start from `join()` and `is_member()` to warm up
- Test your code from simple cases to the complex, considering the corner cases.
- Remember to use `print()` if you are unclear to what happens when running your code.