Your first time with git and github

If you've never used git or github before, there are a bunch of things that you need to do. It's very well explained on github (https://help.github.com/articles/set-up-git), but repeated here for completeness.

- Get a github (https://github.com) account.
- Download and install git (https://git-scm.com/downloads).
- Set up git with your user name and email.

  - Open a terminal/shell and type:

    ```
    $ git config --global user.name "Your name here"
    $ git config --global user.email "your_email@example.com"
    ```

    (Don't type the $; that just indicates that you're doing this at the command line.)

    I also do:

    ```
    $ git config --global color.ui true
    $ git config --global core.editor emacs
    ```

    The first of these will enable colored output in the terminal; the second tells git that you want to use emacs.

- Set up ssh on your computer. I like Roger Peng (http://www.biostat.jhsph.edu/~rpeng)'s guide to setting up password-less logins (http://www.biostat.jhsph.edu/bit/nopassword.html). Also see github's guide to generating SSH keys (https://help.github.com/articles/generating-ssh-keys).

  - Look to see if you have files ~/.ssh/id_rsa and ~/.ssh/id_rsa.pub.
  - If not, create such public/private keys: Open a terminal/shell and type:

    ```
    $ ssh-keygen -t rsa -C "your_email@example.com"
    ```

  - Copy your public key (the contents of the newly-created id_rsa.pub file) into your clipboard. **On a Mac**, in the terminal/shell, type:

    ```
    $ pbcopy < ~/.ssh/id_rsa.pub
    ```

- Paste your ssh public key into your github account settings.

  - Go to your github Account Settings (https://github.com/settings/profile)
  - Click "SSH Keys (https://github.com/settings/ssh)" on the left.
  - Click "Add SSH Key" on the right.
  - Add a label (like "My laptop") and paste the public key into the big text box.
  - In a terminal/shell, type the following to test it:

```
$ ssh -T git@github.com
```

- If it says something like the following, it worked:

```
Hi username! You've successfully authenticated, but Github does
not provide shell access.
```

Next: Typical use (routine.html)