Gator Github Tutorial

Step 1: Install Git

Windows:

Download appropiate version here:

https://git-scm.com/download/win

Linux:

```
$ sudo apt install git-all
```

For any non-debian based linux check here for your install:

https://git-scm.com/download/linux

Step 2: Sync Repo with Matlab

1. Create Folder in desired Matlab Location
2. Launch Matlab and open your new folder in the "Current Folder" tab
3. Right-Click and select "Source Control" -> "File Changes" in drop-down menu
4. There should be a window pop-up.

   a. Now head over to desired GitHub Repo.

   b. Find and select green "Code" button on main repo page

   c. Select "HTTPS" and hit the clipboard button to copy link

   d. Return to pop-up Matlab window and make sure "source control integration" has "git" selected.

   e. Paste GitHub repo link in "repository path" box and hit retrieve.

Step 3: Pushing to Git

Via Matlab:

1. For any files that have a empty white circle(need to be added) select/right-click file(s) and select "source control" -> "add to git"
2. Once all desired files either have a plus symbol(add) or blue square(modified)

   a. Right-click in "Current Folder" window and select "View and Commit Changes"

   b. Make sure all files are present and write appropiate commit message in the box.

c. Hit "Commit"

3. Right-click in "Current Folder" window and select "source control" -> "push"

Via Bash(terminal):

```
# Check files ready to be pushed
git status
```

```
# Add files shown to commit
git add -A
(or)
git add <file>
(specific file)
```

```
# Commit and write a message
git commit -m "Message goes here"
(or)
git commit
(This will open your editor instead)
```

```
# Push current changes
git push
```

Useful Git Commands:

```
# Pulling
git pull
```

```
# Cloning a repo
git clone https://github.com/.......
```

```
# Check current branch
git branch --show-current
```

```
# Checkout a branch
git checkout <branch>
```

```
# Merge branches
git checkout <receiving branch>
git merge <copying branch>
```

```
# View branches
git branch or git branch --list
```

Having a really bad time:

https://ohshitgit.com/2