**Example Use** Cheat Sheet

# Create a New Repository

git init

# **Grab a Local Copy of GitHub Repo**

git clone repo-url (e.g. 'https://github.com/ergsense/DTECTS\_hw.git')

# Check Repo Status (check for changes)

git status

#### **Commit new content**

git add \* ('\*' for all new content, specific names otherwise)

git commit

# Reset Your Repo (i.e. reset back to HEAD)

git reset --hard

#### **Switch to a Previous Commit**

git checkout *sha-id* (if lazy or pressed for time, use '~N' to offset from other content. e.g. "git

checkout HEAD~1" to access the last commit before HEAD. You can use this

(10/31/17)

for sha-id's, tags and branches too!)

#### **Assumptions**

- 'Repo' means local content here unless explicitly stated
  - e.g. "adding to the repo" means adding to your local .git/ repo copy

# **Notes**

- Anytime work gets sticky and things won't successfully complete this gets easy, just force it
  - e.g. for the classic eggshell of a failed 'git push', just use 'git push -f'!
- Be sure to you are on correct branch before interacting with the remote repo.
  - ∘ If you want to interact with the whole repo, just use '-a' for all!

### 1. Create - New Local Repo

Here we will create a new repo, locally and use it, using an ammend & reset for illustration.

Establish – Create Dir & Place init content note – for empty dirs, place an empty.txt inside for repo retention

git init - Initialize repo git add \* - Add content - Confirm correct staging (new files, removed files, ignored content, etc.) git status git commit - Stores the added changes to a new commit, yeilding a sha-id for records *git status* - Confirm commit complete as intended

qit commit --amend - Update commit's content, or change it's commit message git reset --hard - Reset the repo to it's initial state (value of commit <*sha-id*>)

### 2. Create - New GitHub Repo

Here we will create a new GitHub repo and add initial content, in preparation for future use.

Go to <a href="https://github.com/">https://github.com/</a>

Select 'New Repository' and enter a Repository name

Select 'Create Repository'

Use the created HTTPS value to checkout a local copy

e.g. 'git clone <a href="https://github.com/justinmreina/test.git">https://github.com/justinmreina/test.git</a> <- The repo is now ready for use

#### 3. Add – New Stuff to Repo

Here we update the project a bit with new content, and commit this to the repo (local).

git add somefile1.txt somefile2.txt lib\_dir/\* - add two files and an entire directory - Confirm correct staging ait status git commit - Store the added changes to a new commit git status - Confirm commit complete as intended

#### 4. Push - To GitHub

Here we push some new content (commits) to the GitHub remote repo.

ait push - Push to remote repo. Use '-f' if tricky or painful!

### 5. Pull - From Github

Here we pull current content (commits) from the GitHub remote repo. This is done anytime you want to refresh or catch-up, e.g. to new content from the team, etc.

git pull - Push to remote repo. Use '-f' if tricky or painful!

### 6. Update - Copy of Remote GitHub Repo

Simple, 'git pull'!