Useful Info MS Project:cs

Idled 🡪 fun

IDL

How to run the code when shuffled into home director (check out idl tutorial, compling in idl code, or running an idl code)

**To log onto sptcloud:**

Open a Cygwin terminal

Use *startxwin* command to open independent terminal

export DISPLAY=:0.0 (most likely will not use)

deroak7\_Xbilem

passwd 🡪 changing password

ssh –Y –i /cygdrive/c/Users/Gabrielle/.ssh/\_git\_key [gcole@128.135.158.235](mailto:gcole@128.135.158.235)

**To Open text editor:**

Emacs <filename> & (make sure to include the & to keep the command line open

**To Run code in idl:**

.rn <filename>

To access key:

1. cd cygdrive/c/Users/Gabrielle/.ssh
2. in this directory should be \_git\_key and git\_key.pub

Useful notes about Existing code

1. assessing it
   1. emacs .bashrc
   2. cvs co spt\_analysis

**Useful tips about whatever**

Less <filename> 🡪 to display file information

~/ 🡪 to copy something to my home directory

scp 🡪 send copy to “file name from” and “file name to”

ctrl x ctrl c 🡪 exit emacs

ctrl x ctrl s 🡪 save in emacs

pwd 🡪 present working directory, tell you where you currently are

when working in terminal use */cygdrive/c/Users/Gabrielle* to get to files on computer

cd (..) 🡪 (change directory) (or go back to home directory)

ls 🡪 (list directory contents)

ls –a 🡪 (list all directory contents)

chmod <filename> 🡪 changes permissions on a file

**Running To-Do list**

1. Understand the imputs and what is going on there as well as the outputs and how they are being manipulated
2. Try out running the code in idl.

**Python Commands**

ipy 🡪 to open ipython from terminal

Len() = length of an array or string

.append() = add something to end of an array

<= less than or equal to….etc, etc.

elif = ‘else if’

.insert(place #, what you want to incert)

range(starting number, ending number+1, step size of increments)

for i in range(len(a)): 🡪 a is some list or array

for w in words: 🡪 w is like an index over the list or array “words”

break 🡪 denotes a break in a for loop

continue 🡪 for continuing in interiation within a for loop

def “function name”🡪 allow you to define a function

man <command> 🡪 brngs up more infor

**IDL Commands:**

Capitalization & spaces don’t matter in idl

Print, a 🡪 prints the value of a

Help, a 🡪 prints value of a and tells if it is a float or interger, etc.

& 🡪 can be used to link to operations to each other

A = [1,2,4.54,3] 🡪 creates an array with the given values.

Print, max(a) 🡪 prints the max of the array a

Print, total(a) 🡪 prints the total of the array a

A = fltarr(100) 🡪 creates array of 100 floating numbers = to 0

A = findgen(100) 🡪 creates array of 100 numbers from 0 to 99

A[i;j] 🡪 allows you to index an array

A = fltarr(i, j) 🡪 creates array with i x j elements

!<system variable> 🡪 denotes some read only global variables

3.4d-4 🡪 3.4 x 10^-4

3d 🡪 3.000000 (instead of just 3)

Randomu(seed, 230) 🡪 creates 230 random array of numbers bwt 0 and 1