

## Exercise: *Due by classtime April 3rd*

**Exercise 16.0:** Animation: animate the viewing angle of the  $\sin(2x)\sin(y)$  surface

This exercise makes use of your `coordinateArray` function.

Filename: `YourName_animSinSin.pro` (as long as it makes it on git, `YourName` is optional)

**Exercise 18.0:** Pointers. *Journal* file called `YourName_Ex18.0.pro`

**Exercise 18.1:** Using pointers to create structures containing different-sized arrays

*Journal* file called `YourName_Ex18.1.pro`

**Whuduzitdo?** Nothing! No WDIDs in this assignment.

**Turn in** via github

`git add` the following files:

`YourName_animSinSin.pro`

`YourName_Ex18.0.pro`

`YourName_Ex18.1.pro`

then `git commit` and `git push`

**Graded Homework 10 Due** by midnight the night of Monday, April 8th, 2013.

**Homework 15.5:** Expand Homework 15.4 to be N-body

Filename: `YourName_twoD_Nbody_HW15.5.pro`

Result should look similar to plot front of the book, Part 2.

**Homework 15.6:** `initialize_allStars` function

Filename: `YourName_twoD_Nbody_HW15.6.pro`

**Homework 15.7:** Convert to a 3D simulation Filename: `YourName_threeD_Nbody_HW15.7.pro`.

**Homework 16.0:** Animate star motion

Filename: `YourName_threeD_NbodyAnimation_HW16.0.pro`

WARNING: Animation building runs very slowly if you run it from home, connected to the cosmos computer.

You will ultimately want to do this homework *in the cosmos lab*. (You might develop it from home, but use a very short time loop, i.e., very few frames just to make sure things are working.)

**Turn in** via github

`git add` the following files:

`YourName_twoD_Nbody_HW15.5.pro`

`YourName_twoD_Nbody_HW15.6.pro`

`YourName_threeD_Nbody_HW15.7.pro`

`YourName_threeD_NbodyAnimation_HW16.0.pro`

then `git commit` and `git push`