

## Found, Function, Creation - Math 448

The goal of this activity is for students to bring in and share something valuable or useful to the class at large.

Each Tuesday, 20 minutes of class time are devoted to four 5-minute student presentations. Each student must do at least 3 of these presentations over the course of the semester. For each presentation, student have the choice of three types of presentations: **Found**, **Function**, **Creation**, whose descriptions are below.

### Found

This presentation is an opportunity to **share with the class a resource that you found that is valuable** and was useful to you. It may be a website, a demonstration project, videos, or some other resources that you think will be valuable to your classmates. You should explain how to access this resource and what it can be used for. Give a walk-through for using this resource, and show something from this resource that you used. Explain how you think that other may use this resource, and why you think it is valuable.

### Function

This presentation is an opportunity to **share with the class how to use a built-in function in Mathematica**. There are many built-in functions in Mathematica, often with myriad options to further expand the functions' capabilities. This presentation gives a walk-through of a function that you learned how to use and think would be valuable to your classmates to be introduced to. Your presentation should explain what the function does, what some of the options are, and many, many examples of how it can be used. Explain some of the challenges you overcame trying to figure out how to use this function. These should be demonstrations of some of the "bigger" built-in functions, not stuff like  $\text{Sin}[x]$ .

### Creation

This presentation is an opportunity to **share with the class something you created in Mathematica**. This should be something that you found challenging to achieve and are proud to have successfully accomplished. This presentation should provide a context for why you created this code, and what you were trying to accomplish. You should provide an overview of how the code works and a few specific details on some of the more challenging aspects of the code. (Don't not say "This line does this; this line does this. Your commenting should do that.") Explain what was hard about it, what novel things you did, and why you are proud of this accomplishment. Explain why you are sharing this creation with the class.