Other Collections

1-27-2012
Opening Discussion

- Minute essay comments:
  - Renaming in Eclipse.
  - Tabs in Eclipse.
  - Where can you learn about Any, AnyRef, etc.? Pg. 413
  - Details of implicit conversions beyond this course. Will be in an appendix.
  - Limiting the sort to numeric types.
  - Parametric polymorphism is polymorphism you get by having a type parameter.
Finishing Sorts

- Do sort with comparison function first.
The collection API in Scala is really powerful. This is a big part of what makes the language so great to use.

In the first semester we focus on basic sequence types.

We gain a lot of power by adding Map, Set, and Buffer.
Map

- Stores (key, value) pairs. Let's you do fast look-up by key.
- Two type parameters.
- A sequence is indexed by Int and need “all slots filled”.
- A Map can be indexed by anything and can be sparse.
- You should only use immutable values for keys.
Set

- Based on math idea.
- Order doesn't matter.
- Elements have to be unique.
Like an array with the ability to grow and shrink.
Let's add more code do the drawing program.

DrawTransform is a great place for a Buffer.

The command processor is a great example of a place where a Map can come in handy.
Questions?

How do you see various collections being used in your projects?

We have TA/budget issues with the department so I want to survey how many of you feel you would benefit from having Chris as the TA for this course.