9-9-2011
Minute essay comments:

- Can we make type parameters be abstract types?
- Comparing Java and Scala type parameters.
- Type parameters can be put on classes. We'll see examples of that in a few weeks.
- Parametric vs. inclusion
Finishing Sorts

- Ideally I'd like to put these into commands in the drawing program. I don't know if we can get that far.
- 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.
Buffer

- Like an array with the ability to grow and shrink.
Let's add more code do the drawing program.

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?