Command, Iterator Proxy, Composite

10-26-2011
Projects?
  - You should be closing out the first project.

Cool news?

Robots taking over?

Have you written software to put anyone out of a job recently?
Command

- Encapsulate things that happen in a program so that they can be done when needed.
- Add undo and you have the capability for easy do-undo functionality.
- Instead of actually doing anything, you package commands and send them to a main processor.
This one you should be familiar with. For any collection, you want to have the ability to run through the elements.

An iterator provides that functionality in an abstract way.

The “how” part no longer matters and can be determined in other parts of the code or easily changed.
Don't pass a real object because it would take up too much of some resource. Instead, pass a proxy that shares the interface.

- Matlab arrays.
- In Scala iterators sometimes serve as Proxies. Views are truly proxies.
Composite

- Compose a complex object out of multiple subtypes.
- This provides a tree-like structure.
- Highly flexible and easy to work with. Can easily add new subtypes. Hard to add new functionality.
Closing Discussion

- Questions?