Writing Files

10-19-2011

Opening Discussion

- Natural Midterm Grade Distribution:
  - A – 8, B – 5, C – 8, D – 9, F – 6
  - Median = 72 → 8 point curve
- Minute essay comments:
  - Should you understand higher-order functions?
  - Calling functions in other Scala files.
  - Splitting on less organized data.
  - Does the math get worse?
  - What to import and when.
  - Assignment #1 grades/comments.

More

- What is exciting about Google+?
- Big numbers in unemployment are counts of people.
- Other uses of reading files.
- How are new programming languages made?
- Because iterators are consumed, do you have to rerun?
- Permutations and combinations.

- MTMOYM (Next Monday at 4pm)
- Solutions to the interclass problem.

java.util.Scanner

- Java Scanner class sometimes easier for input.
    - hasNext(), next()
    - hasNextInt(), nextInt()
    - hasNextDouble(), nextDouble() ...
- Doesn't produce a Scala collection.
- Needs java.io.File: new Scanner(new File(fileName))
- Always make a new object from the Java libraries using new. Scala typically allows you to leave that off.

Closing Files

- Make sure you always close files when you are done using them.

- Source, Scanner, and pretty much anything else that pulls from a file will have a close() method.

java.io.PrintWriter

- To write to files use java.io.PrintWriter.

- Create with new PrintWriter(fileName)

- Has print and println methods just like what you have been using to print to screen.

Flush

- To make certain contents have been written to the file use flush().

- Doing close() will also flush and you should definitely remember to close all files you are writing when done with them.

Command Line Arguments

- In a script, the command line arguments are put in args:Array[String].

- You can do anything with them that you would do with a normal array.

Examples

- Print some random numbers to a file.
- A file copy with word replace.

Minute Essay

- Have any questions?

- What can I do that would help you with the material? Are you reading and trying to do exercises and other things from the book?