

Introduction to Programming – Concepts and Tools

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Week A

Today's goals

- Reminder of last week
- Where you should be by today
- Comment on course evaluation
- Lecture
 - Dynamic data types

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Last week: File handling

- Types of files: text files, binary files
- Streams:
 - sequential sequences of bytes that can be used for input or output
 - Java knows character streams and byte streams
- Java class hierarchy of streams
 - Writing to text files: `FileWriter`, `PrintWriter`
 - Reading from text files: `FileReader`, `BufferedReader`
 - Reading/writing binary files
- Handling the input
- Class `File`

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Where you should be

- Theory
 - Read chapters up to (and including) chapter 7, 10, 11
 - Understand the concept of streams
 - Understand the two-level approach to reading/writing in Java
- Praxis
 - Prepare files for reading/writing using streams
 - Combine two streams so that one has a 'nice' front-end for writing
 - Use class `File` to retrieve information about current directories and existing files.

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Course evaluation

"Use more examples that are different from those in the book."

Pro:

- More examples
- Different examples
- Class is independent lecture and book is supplemental
- Book might be better (?) a good reference book

Contra:

- To use the book you first have to understand those examples (as well)
- More time consuming
- Class provides 'guided reading'

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Course evaluation

- Lacking overview of different programming styles
- Too large labs
- Too difficult assignments
- Course does require some prerequisites
- Too mathematical

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