

# File I/O

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CSSE 221

Fundamentals of Software Development  
Honors

Rose-Hulman Institute of Technology

# Announcements

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- Career fair tomorrow.
  - 104 of 182 companies looking for CSSE students
- CSSE Department Picnic
  - Saturday, 3-6 pm
  - Hawthorn Park is a short walk behind campus
  - Dogwood Shelter
  - Please RSVP by tomorrow!
- Exam 2: next Tuesday
- Final exam
  - Monday, November 14,
  - 8:00 AM
  - In O169

# Announcements

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- Simulation project starts Monday
  - An educational simulation or animation of some real-world process
  - Must include a GUI
  - Must include multithreading
  - Voice your preferences for partners by Thursday
    - Complete the ANGEL survey
    - See homework 6 instructions

# File I/O: Key Pieces

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- Input
  - Scanner in = new Scanner(new File("data.txt"));
  - String word = in.next();
- Output
  - PrintWriter out = new PrintWriter("data.txt");
  - out.println("Here's some data!");
- Be kind to your OS: close() all files
- Letting users choose: JFileChooser and File
- Expect the unexpected: Exception handling

# IO Exceptions

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- If a path or file does not exist we'd get a IO exception error
  - This is a checked exception. So...
  - Need to surround the file access method with a try/catch block. Or...
- Some common exceptions
  - **IOException**
    - Signals that an I/O exception of some sort has occurred.
  - **FileNotFoundException**
    - Signals that an attempt to open the file denoted by a specified pathname has failed.
  - **EOFException**
    - Signals that an end of file or end of stream has been reached unexpectedly during input.



**Demo**