CS1110. Lecture 2, 2 Sep 2010. Objects \& classes
Reading for this lecture: Sec. 1.3. Study this section, practice what is taught using DrJava over the weekend.
PLive: Activities 3-3.1, 3-3.2, 3-3. (not 3-3.3), 3-4.1, 3-4.2.
Reading for Tuesday, 7 Sep. Sections 1.4, (p. 41); 13.3.1 (p. 376).
Quote for the day: Computational thinking: a fundamental skill for everyone ... [It] is ... choosing an appropriate representation
 for a problem or
modeling the relevan aspects of a problem to make it tractable. Jeannette Wing


Not receiving emails from us from CMS?

1. Not registered in the CMS. Email Maria Witlox mwitlox@cs.cornell.edu, ask her to register you. Needs your netid.
2. Your email bounces. Your Cornell acct not set up correctly or place to which you forward it is having trouble. Find out:
email yourself, netid@cornell.edu, see what happens, fix it.

AEWs 1-credit AEW sections for CS1110.

Two hrs per week. Not remedial.
See course website for link.
Wed 7:30-9:25pm; Mon 2:30-4:25.

Quiz Tuesday Everyone get 100 .!

1. What is a type? p. 17 2. How do you execute (carry out, perform) the assignment statement?

$$
\text { box on p. } 28
$$

3. Be able to execute an assignment statement

Consulting starts today.
Click "Staff" on course webpage, then the link at bottom of page

| First-day surveys |  | CMS shows 278 students, so we are missing 25 surveys. Those who didn't turn it in: no need to do so. It's only to give us a good feel for the makeup of the course, and we have that. |
| :---: | :---: | :---: |
| No programming experience: |  |  |
| < 5 months experience: | 048 |  |
| $>5$ months experience: | $047$ |  |
| Total | 253 |  |
| 62\%: no previous experience |  |  |
| Most frequent comments: <br> 1. Concern about keeping up, <br> 2. Excited about learning to progr | ility to | arn programming |




A class is a file-drawer. Contents: manila folders, each containing the same kind of information



Instructions to be carried out by different people: methods.
Assume getName is a function: it returns a value.
Assume deposit is a procedure; it does a task, doesn't return value


> Question: How much time did you spend reading the material for this lecture?
> A. 0 minutes
> B. 1.. 10 minutes, with no distractions
> C. $1 . .10$ minutes with distractions
> D. $>10$ minutes with no distractions
> E. $>10$ minutes with distractions
> distraction: listening to music at the same time, watching TV or something on the internet at the same time, etc.



| Comments from last semester |
| :--- | :--- |
| I understand classes and objects fairly well, and I thought the file |
| drawer/file folder analogy was very helpful. |
| I think I'm definitely prepared for 2110 . The folder/file drawer |
| analogy was actually very helpful for a first-time Java |
| programmer in understanding them. |
| I did learn the concept before coming to this class, CS1110 is |
| really what made me understand how objects and classes work. |
| The folder was a great way to learn objects and classes. It |
| simplified a very complex concept. |
| Teaching methods were terrible.... boxes and folders made the |
| subject more confusing than it should be. |
| I'm still a bit dubious about the whole file folders and cabinets |
| thing. |


| j $\quad \mathrm{a} 0$ | $\mathrm{j}=$ new javax.swing.JFrame(); <br> j.show(); |
| :---: | :---: |
| variable contains the name of the folder | Expression new JFrame() <br> Create new folder and put in file drawer JFrame. |
| - Read section 1.3. <br> - Practice what we did in class in DrJava. <br> - Try the selfreview exercises on page 40 . | Statement jf= new JFrame(); <br> Create new folder, as above, and place its name in variable jf. <br> Thereafter, use <br> jf. method-name ( arguments, if any ) to call methods of folder (object) jf. |
|  | 14 |

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[^0]:    package: A collection of classes that are placed in the same directory on your hard drive. Think of it as a room that contains file cabinets with one drawer for each class.
    package java.io classes having to do with input/output package java.net classes having to do with the internet package java.awt classes having to do with making GUIs package javax.swing newer classes having to do with GUIs

    To reference class JFrame in package javax.swing, use: javax.swing.JFrame

    Instead: import javax.swing.*;
    Then use simply JFrame

