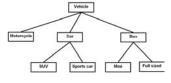
# **Introduction To CPSC 219**

### **James Tam**







Java Object-Orientation

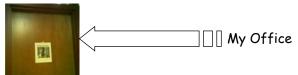
Iomas Ton

### **Administrative (James Tam)**

- Contact Information
  - Office: ICT 707
  - Email: tamj@cpsc.ucalgary.ca

#### Office hours

- Office hours: Monday (13:00 13:50), Tuesday (11:00 11:50), Wednesday (16:30 16:50) If I'm not in my office at the start of the office hour then wait a few minutes so I can make my way from my lecture or else you can catch me after the respective lecture for that day.
- Email: (any time)
- Appointment: email, phone or call
- Drop by for urgent requests (but no guarantee that I will be in if it's outside of my office hours!)





James Tar

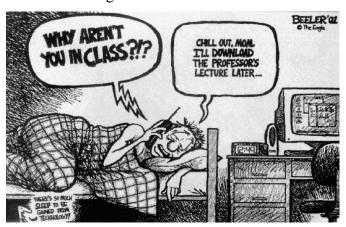
#### **Course Resources**

- Required resources:
  - Course website: http://www.cpsc.ucalgary.ca/~tamj/219 (Get the notes off the course webpage before lecture)
- Recommended but not required:
  - "Head First Java (2nd edition)" by Sierra K., Bates B. (O'Reilly)

James Tan

# **How To Use The Course Resources**

- •They are provided to support and supplement this class.
- •Neither the course notes nor the text book are meant as a substitute for regular class attendance.



#### **How To Use The Course Resources (2)**

```
Displays the current state of the galaxy. Each sector is bounded by a square and the row and column values are labeled.
// INH: Added char parameter to indicate if it's the attack or movement
// turn phase. Cloaked ships only appear during the attack phase.
public void display (char turn)
  int r, c;
int combatInitiative;
  System.out.println();
  System.out.println(HORIZONTAL_NUMBERS);
System.out.println(HORIZONTAL_BORDER);
  for (r = 0; r < SIZE; r++)
      System.out.print(r);
       for (c = 0; c < SIZE; c++)
         System.out.print("|");
         if (grid[r][c] != null)
              combatInitiative = grid[r][c].getCombatInitiative();
             if ((turn != 'a') && (combatInitiative == KlingonAttackCruiser.CLOACKED))
    System.out.print (" ");
                System.out.print(grid[r][c].getAppearance());
         else
             System.out.print(" ");
      System.out.println("|");
      System.out.println(HORIZONTAL_BORDER);
```

James Tan

# **How To Use The Course Resources (2)**

Displays the current state of the galaxy. Each sector is bounded by a square we the row and column walues are labeled.

"When the color of the state of the galaxy. Tach sector is bounded by a square we the row and column walues are labeled.

"When the color of the

### **How To Use The Course Resources (3)**

- •What you are responsible for:
  - Keeping up with the content in class which includes the topics covered but also announcements or assignments whether you were present in the class or not
  - If you are absent, then you are responsible to get the information from the other students in class.
- •However, after you've caught up by talking with a classmate:
  - Ask for help if you need it
  - There are no dumb questions

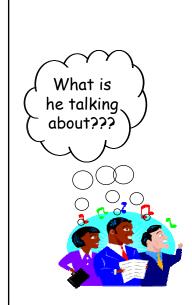


Image from "The Simpsons" © Fox

James Tar

#### **Course Goals**

- •Implementing a procedural solution to a problem using a low level programming language
- •Design a program using the Object-Oriented approach
- •Solve problems using principles of good Object-Oriented design



# **Feedback**

Wow I am the greatest speaker in the world!

Let me know how things are going in the course:

- Am I covering the material too slowly or too quickly.
- Can you read the slides and my hand writing.
- · Can you hear me in the class.
- Etc.

James Tan

# **How To Succeed**

•Successful people



Leonardo da Vinci



Amadeus Mozart



Bruce Lee



J.R.R. Tolkien



Wayne Gretzky

### **How To Succeed In This Course**

- 1. Practice things yourself.
  - Write lots programs
    - At the *very least* attempt every assignment
    - Try to do some additional practice work (some examples will be given in class, some practice assignments will be available on the course web page).
  - Trace lots of code
    - Reading through programs that other people have written and understanding how and why it works the way that it does

James Tan

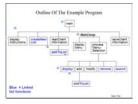
#### **How To Succeed In This Course (2)**

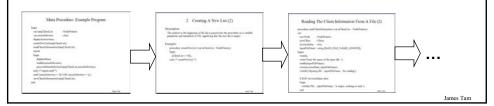
- 2. Make sure that you keep up with the material
  - Many of the concepts taught later depend upon your knowledge of earlier concepts.
  - Don't let yourself fall behind!
  - At least attempt all assignments!

James Tan

### **How To Succeed In This Course (3)**

- 3. Look at the material before coming to lecture so you have a rough idea of what I will be talking about that day:
  - a) Read the slides
  - b)Look through the textbooks (if you bought them)





# **How To Succeed In This Course (4)**

- 4. Start working on things as early as possible:
  - Don't cram the material just before the exam, instead you should be studying the concepts as you learn them throughout the term.
  - Don't start assignments the night (or day!) that they are due, they may take more time than you might first think so start as soon as possible.

# **How To Succeed In This Course: A Summary**

- 1. Practice things yourself
- 2. Make sure that you keep up with the material
- 3. Look at the material before coming to lecture
- 4. Start working on things early

James Tan

## **Are You In Right Place?**

- •CPSC 217 and CPSC 231
- •CPSC 219 and CPSC 233
  - -219: Largely the same topics but a few additional ones that were covered in 231 (recursion, classes/objects).
  - -219: Additional examples (i.e., slower).
  - -219: Extra contact time (4 vs. 3 hours per week).

