Object-Oriented Programming

Spring 2018

Nice to meet 😊
Staff

• Lecturer in Charge: Prof. Yossi Gil
• Lecturer: Tal Cohen
• TAs: Ophir Katz, Rajaee Khateb, Natan Bagrov (in charge)
• Homework Checker: Omer Cohen

For more information see the course site
About Me

Natan Bagrov

• **Office location**: 212
• **Office hours**: Monday, 10:30 (immediately after this tutorial)
• **Email**: natanb@cs.technion.ac.il
Course Objectives

• Present abstraction mechanisms
  – not object oriented programming
  – not object oriented design

• A comparative approach
  – not about a specific language
  – Languages Present in class: C++, Java, Squeak, C#

• Understand the **why** and not just the how
  – Reveal the reasons for the languages behavior
Tutorials Objectives

• Introduce programming languages such as Squeak, Java and C#
• Show concrete implementations for mechanism shown in the lectures.
Homework

• 5 wet home works:
  – Squeak Basic
  – Java Basic
  – Squeak Advanced
  – Java Advanced
  – C++

• Homework grade is takef

\[ \text{Exam} \pm \sqrt{|\text{HW} - \text{Exam}|} \]

• Homework can be handed in up to 3 days late with only a 5 point penalty.
• No homework transfer from last semester.
• Cheaters will be punished severely!
Homework Feedback & Appeals

• Tests will not be provided - **Why?**
  – We are able to recycle the assignment
  – You get better-written, tested assignments (and a reference from your friends)
  – YOU SHOULD WRITE TESTS and not count on other tests solely
  – You will get a report with test names and results

• I want to appeal, or to confirm the results - **How?**
  – Come to the reception hour of the staff in-charge of the assignment
  – You will see your code in action, and will be able to look at some tests
  – You will get 1 week to fix your solution
    • ONLY MINOR CHANGES ALLOWED – The TA will decide what is minor and what not.
    • 10 Pts of **RE-submission** penalty. Your grade on the assignment will start from 90
    • **Only 1 resubmission allowed** – If you resubmit, the grade will be the results of the resubmission, even if actually lower than original!

**Detailed protocol:**
## Homework Schedule

<table>
<thead>
<tr>
<th>HW</th>
<th>Topic</th>
<th>Approx. Publish Date</th>
<th>Approx. Due Date</th>
<th>Based on</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Squeak (basic)</strong> Polynomials</td>
<td>10/04/2018</td>
<td>24/04/2018</td>
<td>Winter 1718</td>
<td>Easy</td>
</tr>
<tr>
<td>2</td>
<td><strong>Java (basic)</strong> Master Chef</td>
<td>24/04/2018</td>
<td>08/05/2018</td>
<td>🙄</td>
<td>Easy, no reference</td>
</tr>
<tr>
<td>3</td>
<td><strong>Squeak (advanced)</strong> Interfaces &amp; Type constraints</td>
<td>08/05/2018</td>
<td>29/05/2018</td>
<td>Winter 1617</td>
<td>Long</td>
</tr>
<tr>
<td>4</td>
<td><strong>Java (advanced)</strong> Multiple inheritance</td>
<td>29/05/2018</td>
<td>19/06/2018</td>
<td>Spring 17</td>
<td>Longest, 4 weeks, including Hannukah</td>
</tr>
<tr>
<td>5</td>
<td><strong>C++ (advanced)</strong> Implementing Streams</td>
<td>19/06/2018</td>
<td>01/03/2018 Last day of the semester</td>
<td>🙄</td>
<td>Long, no reference, start as early as you can</td>
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**CAUTION**

NOW, WHEN YOU KNOW WHAT REFERENCES ARE NEEDED – NOTE THAT YOUR SOLUTION WILL ALSO BE COMPARED TO THESE SEMESTERS, AND AS SAID BEFORE – CHEATERS WILL BE PUNISHED SEVERELY.

ALSO, STUDENTS THAT DID NOT SOLVE THE HOMEWORK WILL MORE LIKELY TO GET LOWER GRADE IN THE HW QUESTION.
Tips

• Not all the material is covered in the slides
  – Print the slides and bring them with you to class.
  – Take notes during the lectures and tutorials.

• You will be tested on the material covered on both the lectures and the tutorials
  – Don’t miss class, and if you do, make sure to fill in the gaps
  – Participate