Object-Oriented Programming

Summer 2018

Nice to meet 😊
Staff

- **Lecturer**: Prof. Yossi Gil (in charge)
- **TA**: Guy Suday (in charge)
- **Homework Checker**: Eric Kiel

For more information see the course site
Guy Suday

- **Office location**: Taub 320
- **Office hours**:
  - Monday, 13:30
  - Tuesday, 13:30
- **Email**: guy-suday@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 presented 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
  – Java Advanced
  – Squeak Advanced
  – C++

• Homework grade is **taken**

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

• 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:  
<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>31/7/2018 Tuesday</td>
<td>7/8/2018</td>
<td>Spring 18</td>
<td>Easy</td>
</tr>
<tr>
<td>2</td>
<td><strong>Java (basic)</strong> Sushi social-network</td>
<td>7/8/2018 Tuesday</td>
<td>14/8/2018</td>
<td>Spring 18</td>
<td>Easy</td>
</tr>
<tr>
<td>3</td>
<td><strong>Java (advanced)</strong> Junit mock</td>
<td>14/8/2018 Tuesday</td>
<td>26/8/2018</td>
<td>Spring 18</td>
<td>Long</td>
</tr>
<tr>
<td>4</td>
<td><strong>Squeak (advanced)</strong> Multiple inheritance</td>
<td>26/8/2018 Sunday</td>
<td>6/9/2018</td>
<td>Spring 18</td>
<td>Long</td>
</tr>
<tr>
<td>5</td>
<td><strong>C++ (advanced)</strong> C++ Streams and compile time matrix operations</td>
<td>6/9/2018 Thursday</td>
<td>17/9/2018</td>
<td>Spring 18</td>
<td>Long, <em>start as early as you can</em></td>
</tr>
</tbody>
</table>
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! You will understand the material better and have fun in the classes!