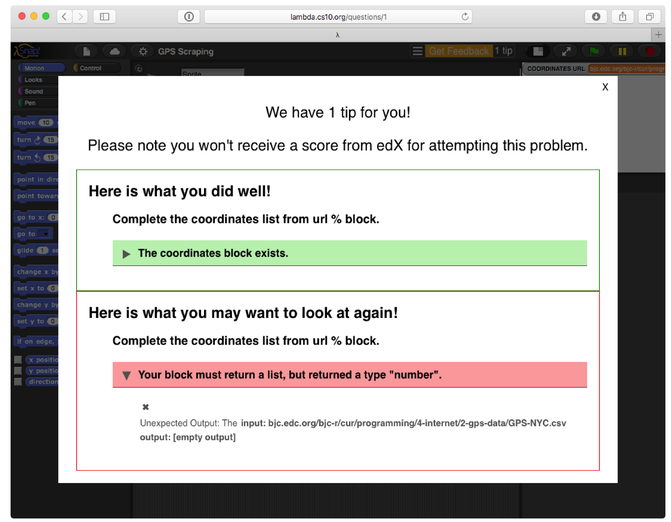
λ: An Autograder for λSnap!

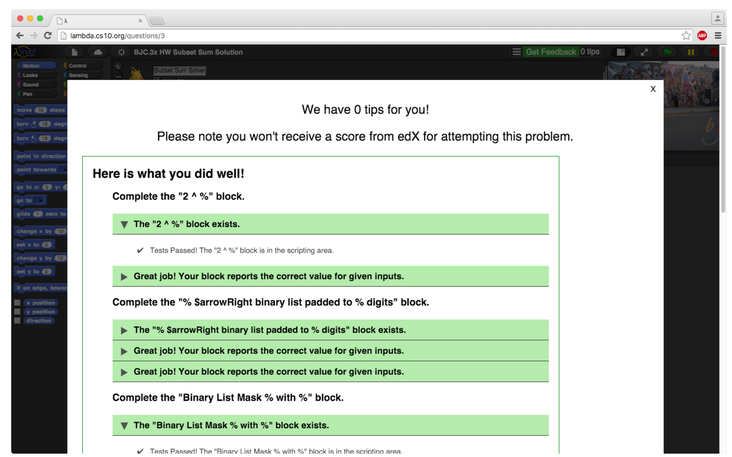
Michael Ball, Dan Garcia | UC Berkeley EECS | conferences@cs10.org

Overview

- Client-side, in-browser feedback for Snap*!*
- Designed for instant feedback
- Contains a set of 'Questions' and 'Tests'
- Flexible tests
  - Simple I/O "unit" tests.
  - Code Analysis (WIP)
    - check if students use certain blocks
  - WIP: Image-Based Output Analysis
  - WIP: Allow writing tests in Snap*!*
  - Allow analysis of submissions
  - Could also be used as a standalone tool
  - Example Flow:
    - Instructor adds tool to course
    - For Each Assignment:
      - Set the URL for the question
      - Student opens embedded Snap!
      - Student Clicks "Get Feedback"
      - Feedback window is shown
      - Grades are submitted in background
- Future Work:
  - Hint Generation (based on mistakes)
  - Problem Recommendation

Screenshots

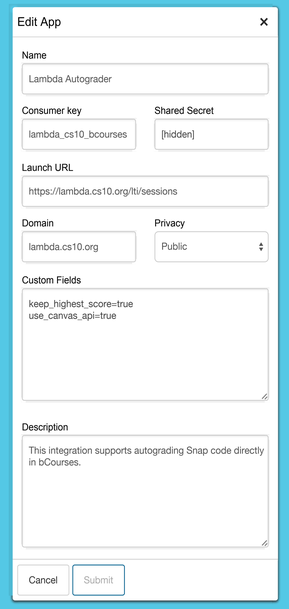




LTI Standard

- LTI: Learning Tools Interoperability
- Open standard implemented by LMS
- Easy way to authenticate students
- Automatic grades from λ to gradebook
- Tested in edX & Canvas, but support for Moodle, D2L, Sakai, Blackboard, more!
- Only configure once per course.

Example configuration:



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