CSC151.02 2013F, Class 18: Turtle Graphics

Overview

- Preliminaries.
  - Admin.
  - Strategies from exam 1.
  - HW Questions.
- Things.
- Modeling images through process: Turtle graphics.
- Some historical notes.
- Turtle graphics in MediaScheme.
- Lab.

Admin

- New lab partners! Please sit with your new lab partner.
  - I’m moving to switching once per week.
  - After fall break, I may let you choose partners (but may require that you switch once per week).
- You will have a substitute teacher (Mr. Walker) and mentors (Ms. Ryan and maybe Mr. Wheeler) on Wednesday and Friday.
- Work for Tuesday:
  - Work on the homework assignment
  - Read Iteration
  - Do Lab writeup 8: Extra 2 and an Exploration
    - Try to get it in for Tuesday.
    - Due before class on Wednesday.
    - Title: "CSC 151.02 Lab Writeup 8: Turtle Graphics (NAMES)".
  - Email me one additional suggestion for something you should or should not do when you’re stuck on the exam.
- EC Opportunities:
  - CS Extras Thursday @ 4:30: Three Students on Student Sysadmin Work
  - CS Table Friday (Coding the Law)
  - More ...?
- Other things you might do (no EC, but possibly a good idea)
  - Poweshiek CARES March Thursday, Oct. 3. Meet at Drake Library at 5 p.m.
  - GHS Homecoming Parade Thursday, Oct. 3. If you’ve never seen a small-town homecoming parade, it’s worth it.
HW Questions

- If your images take a really long time to make, please submit them along with your code.
- When creating new rgb colors, you may need inexact->exact
  - Not (rgb-new (average ...)) (average ...) (average ...))
  - But (rgb-new (inexact->exact (round (average ...)))

Problem Solving on Exams

*What should you do when you’re stuck on the exam?*

- Make a list of 3 "Do"s or "Don’t"s.
- Share with a group of four.

Some outcomes:

- "Sam writes long, dense, text. Make sure that you understand what the question is asking before staring."
- Think about it conceptually before you code.
- "Be nice to your future self" - Start early, ask questions, take notes to yourself.
- Problems can often be broken up into smaller parts, so do so when possible.
  - And try to keep it organized.
- When writing procedures that make pictures, sketch the pictures.
- Save early and often, DrRacket crashes.
- Start early, your subconscious is sometimes a better problem solver than your conscious mind.
- If you haven’t made good progress in FIFTEEN MINUTES, move on to another problem.
- Take breaks. Do a little bit at a time, not all at once.
- Explain it to a houseplant
- Use resources:
  - Electronic: Readings, Labs
  - Physical: Sam (about exam and anything else), Mentors/Tutors (about readings and labs)
- Test your code!
- Email me one more recommendation for your past self.

Lab

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