Welcome Parents!

We’ve planned the following exciting activities

- Watch the professor discuss a long, drawn-out list of administrative issues
- Watch your students ask questions!
- Watch your students take a quiz!
- Watch your students work on a project together

Overview

- Preliminaries
  - Admin.
  - Questions before the quiz. [10 minutes]
  - Quiz.
- Learning Goals
  - What is a procedure?
  - Describing procedures.
  - Anonymous procedures.
  - Anonymous procedures through lambda expressions.
  - Other kinds of anonymous procedures.
- Lab.

Admin

- Continue lab partners!
  - I’m probably moving to switching once per week.
  - After fall break, I may let you choose partners (but may require that you switch once per week).
- Note for students: I will not lecture after the quiz. Start the lab once you’ve finished the quiz.
  - So please set with your lab partner.
- I think the optional class was useful for the few folks who showed up. You can see some notes on the EBoard.
  - We won’t have the optional class Thursday the 3rd, as I’ll be unavailable.
  - Don’t forget the mentor session Sunday night.
- Work for Monday:
  - Work on the homework assignment
  - Read Turtle Graphics
  - Do Lab writeup 7: Exercise 5b-f from the Anonymous Procedures Lab
    - Due before class on Monday.
    - Title: "CSC 151.02 Lab Writeup 7: Anonymous Procedures (NAMES)".
A few of you have been confused about lab writeups
  ○ In general, due the next class. (Exceptions when the next class is the next day.)
  ○ You can find them in every EBoard and outline.
  ○ I’ll work on putting them in the schedule, too.

EC Opportunities:
  ○ CS Extras Thursday @ 4:30: Three Students on Student Sysadmin Work
  ○ CS Table next Friday (Coding the Law)
  ○ Football, 1pm, Saturday against Beloit
  ○ Soccer, 1:30pm, Saturday against Beloit
  ○ Orchestra, 2pm, Saturday, Sebring-Lewis or somewhere similar
  ○ Knitting club, Saturday at 10am. Do good and have fun!
  ○ Weekly discussion group on Transformative Hermeneutics of Temporal and Spatial Xenophobia and Xenophilia, James 1st Friday 7pm
  ○ More ...?

Other things you might do (no EC, but possibly a good idea)
  ○ Get your Flu Shot
  ○ Swipe your P-Card at the Football or Soccer game
  ○ 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.

Pre-quiz Questions

What’s it about
  ○ Color transformations
  ○ Image transformations
  ○ Lists
    ○ map, iota, make-list, list

YOU DO NOT NEED TO KNOW APPLY

How do you add five to every number in a list?

Old way

```
(define add5 (lambda (x) (+ 5 x)))
(map add5 (iota 100))
```

New way: Wait for lab

What does RGB complement do? (define rgb-complement (lambda (rgb) (rgb-new (- 255 (rgb-red rgb)) (- 255 (rgb-green rgb)) (- 255 (rgb-blue rgb)))))

What is increment? (define increment (lambda (x) (+ 1 x)))
Only works with numbers
To add one to each element of a list (map increment (list ...))
What does check-drawing do?
  Convert a drawing to an image and show the image
What’s the difference between make-list and list?
  make-list make multiple copies of the same value. (make-list 10 "red") creates '("red" "red" "red" .... "red")
  list just joins values into a list (list 10 "red") creates '(10 "red") (list "red" "red" "red") creates
  '("red" "red" "red")
What’s the difference between image-transform! and image-variant?
  image-transform! changes the current image
  image-variant makes a new image
  both require a procedure that does something to each pixel
How do we use drawing-hshift with map Old style (drawing-hshift drawing amnt) New style (map drawing-hshift (list-of-drawnigs) (list of amounts)) (map drawing-hshift (list d1 d2 d3) (list 3 4 5))
What does "ilk" mean?
  Similar things, at least in the Rebelskian dialects of English

Quiz
Make sure to turn off your monitor.
Start the lab once you and your partner have finished the quiz.

Lab

Samuel A. Rebelsky, rebelsky@grinnell.edu

Copyright (c) 2007-2013 Janet Davis, Samuel A. Rebelsky, and Jerod Weinman. (Selected materials are copyright by John David Stone or Henry Walker and are used with permission.)

This work is licensed under a [Creative Commons Attribution 3.0 Unported License](http://creativecommons.org/licenses/by-nc/3.0/) To view a copy of this license, visit [http://creativecommons.org/licenses/by-nc/3.0/](http://creativecommons.org/licenses/by-nc/3.0/) or send a letter to Creative Commons, 543 Howard Street, 5th Floor, San Francisco, California, 94105, USA.