CSC151.02 2013F, Class 23: Revisiting Lists

Overview

- Admin.
- Lists, revisited.
- Lab.

Admin

- Choose your own partners for today and the rest of this week.
- Lab: Turn in 4.
- Upcoming EC opportunities
  - Tuesday, 7 pm, Road to Rio at pool
  - Thursday extra at 4:15: Grad school in CS
  - Friday CS Table: Reports from Hopper
  - Friday film: Codebreaker, 7pm, Harris
  - Post-Codebreaker discussion
  - Wit, the play, opens Thursday.
  - Any Queer Culture Week Activity
    - E.g., Wednesday at 7:30, Consent, Negotiation, and BDSM,
  - ...
- Please take care of yourselves and each other at 10/10
- Other upcoming stuff
  - Review session 1:15 pm Thursday
  - Mentor session 7:30 pm Thursday
  - Mentor session 7:00 pm Sunday
  - ...

Lists, revisited

- Old model
  - Create with (list ...)
  - Create with (make-list N val)
  - Create new from old with map, e.g., (map increment lst)
  - Create new list with iota
  - Reverse
  - Create a new list by removing elements from the front of a list with drop
  - Do something with each element with for-each
  - Join together with append
- New model
○ All of the above plus:
○ Create a new list by adding one element to the front with (cons val lst)
○ Create the empty list with null or ‘()’
○ Get the first element of a list with car
○ Get all but the first element with cdr
○ The four operations: cons, cdr, car, null are all you need to work with lists

Lab

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