# PL 10 8 2018

## Lambda expressions

new execution context thing

## Pass 2 talk

```
(eval-poly '(2 0 4 1) 3)
  ; => x^3 + 4x^2 + 2 where x 3

(eval-poly-tail '(2 0 4 1) 3)

(eval-poly-tail-helper)
```

"Do the computation and pass that as one of the arguments"

Example

```
(define (sum-of-squares-helper lst total)
  (if (null? lst)
    total
    (sum-of-squares-helper (cdr lst) (+ (* (car lst) (car lst)) total))))

(define (sum-of-squares lst)
  (sum-of-squares-helper lst 0))
```

Example of what NOT to do

```
(define (sum-of-squares lst)
  (if (null? lst)
    0
    (+ (* (car lst) (car lst)) (sum-of-squares2 (cdr lst)))))
```