

# Lecture 5: Lazy Scheme (Thinking about Thunks)



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# Menu

- Finish Mini-Scheme Interpreter
- Changing Language Semantics

# Last Time: Mini-Scheme

```
(define (apply proc operand env)
  (bind-variable (car (car (cdr proc))) operand
    (extend-environment env))))

(define (eval expr env)
  (if (number? expr) expr
      (if (symbol? expr)
          (lookup-variable-value expr env)
          (if (and (list? expr) (eq? (car expr) 'lambda))
              (list 'procedure (car (cdr expr)) (car (cdr (cdr expr))))
              (apply (eval (car expr) env)
                    (eval (car (cdr expr)) env) env))))))
```