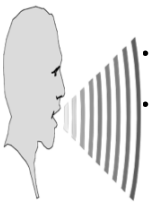
EEL5840: Elements of Machine Intelligence

Subjugator 2006

Announcements



- Today's Handouts in www:
  - > Outline Class 7
- Web Site
  - > www.mil.ufl.edu/eel5840
  - > Software and Notes
  - > XLISP Documentation

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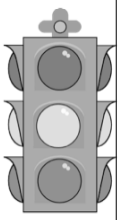
Today's Menu



- LISP
  - > More on User-Defined Functions
    - – DEFUN
    - – COND
    - – FUNCTION-LAMBDA-EXPRESSION
  - > LISP Chapter 5 Procedure Abstraction & Recursion

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LISP Lab 2

Primitive Functions: car or first, cdr or rest, cons, null, cond, atom, symbolp numberp

Predicate Functions:

(*integerp* sex)	t if sex is an integer
(*floatp* sex)	t if sex is a floating point number
(*and* sex1 sex2)	t if sex1 and sex2 are both true
(*or* sex1 sex2)	t if sex1 or sex2 or both are true
(*not* pred)	nil if pred=t or non-nil, t if pred=nil

User-Defined Functions:

(*cond* <($clause_1$) >…<($clause_n$)>) returns the evaluated action from the 1st non-nil predicate or nil where ($clause_i$) ⇒ (predicate-form action-form)

(*defun fname* (argument-list) <(forms)>)

(*pprint* (*function-lambda-expression* #'fname))

Recursive Function Definitions

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See LISP Notes 1

The End!