



EEL5840: Elements of Machine Intelligence
Subjugator 2006

Announcements

- Today's Handouts in www:
 - > Outline Class 7
 - > Lisp Notes 1
- Web Site
 - > www.mil.ufl.edu/eel5840
 - > Software and Notes
 - > XLISP Documentation



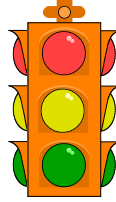
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Today's Menu

- 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:

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

User-Defined Functions:

(cond <(clause₁)> ... <(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!

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