

## Leaf & Lisp

### LispWorks / Lisp

Listener, Editor, Debugger & Function Call Browser

Numbers

Symbols

Sequences

Lists

Strings

Functions

+ - \* /

abs

setf

format ~A ~D ~R

cond

dotimes

loop

defun

N!

Threads

### Lisp Resources

LispWorks.com

ANSI Common Lisp by Paul Graham

Lisp Cookbook on-line

Common Lisp Hyperspec on-line

## **Leaf an AI Robot**

### **Leaf Interfaces.lisp and Leaf.lisp**

“Open” then “Compile and Load” both files

#### **Leaf Interfaces.lisp:**

- LispData Structure
- ReadSensor
- SendCommand

#### **Leaf.lisp:**

- InitializeSystems
- emotion-thread
- listen-thread
  - \*text-phrase\*
  - speech.xml
- Leaf
  - Initialization
  - Main Control Loop
  - Behavior Scripts
  - activity-thread

### **In the Listener enter:**

CL-USER 1 > (sapi-tts “Hello”)

CL-USER 2 > (forward 1000)

CL-USER 3 > (remote)

CL-USER 4 > (Leaf)

### **Leaf Resources**

<http://www.leafproject.org/>

[http://tech.groups.yahoo.com/group/leaf\\_an\\_AI\\_robot/](http://tech.groups.yahoo.com/group/leaf_an_AI_robot/)

[http://en.wikibooks.org/wiki/Programming\\_AI\\_with\\_Leaf](http://en.wikibooks.org/wiki/Programming_AI_with_Leaf)