











How To Run Lisp

- Under UNIX
 - 🛦 kcl, gcl
 - $\ensuremath{\underline{\ensuremath{\mathbb{A}}}}$ Specify in homework which used
 - 🔺 :q if you make an error
 - 🔺 ^D to exit
- Under Win '95
 - ▲ Goto http://www.franz.com/dload/dload.html
 - ▲ Select Allegro CL Lite for Windows







format Examples I

```
>>(format t "~%Hello World.~%")
Hello World.
NIL
>> (format t "~%Two plus two is
~A.~%" (+ 2 2))
```

```
Two plus two is 4.
```

```
NIL
```

format Examples II

>> (format t "~%Words fail, buildings ~A." "tumble") Words fail, buildings tumble.

⇒ (format t "~%The ~A opens ~A~%" "ground" "wide.") The ground opens wide.













```
> (equal '(1 2 3) '(1 2 3))
T
> (eq '(1 2 3) '(1 2 3))
NIL
> (equal "Hello" "Hello")
T
> (= 1 1.0)
T
```











Lisp Lists II

A "cons" refers to a pair of pointers

- \blacksquare The first pointer may point to data or another cons
- ▲ The second may point to data, another cons, or nil
- ▲ cons is used to construct such a pair
- *car* refers to the first pointer
- *cdr* refers to the second pointer

List Construction Functions

- □ copy-list literally copies a list
 ▲ (copy-list list)
- append copies the list arguments onto the beginning of the last list argument
 (append list1 list2 list3)
 - \triangleq list1 -> list2 -> list3
- Don't forget list and cons





























