

PS 8
Josh Whelan
(Music: Mac Miller, *Kool Aid and Frozen Pizza*)

So let's talk about this thing called pairs
It's not that hard and you won't lose hair
A pair consists of two things called cells
It works on any computer, even with dells
Inside these cells can be anything
A cell has many options you could say it had bling
Now to use these pairs aint too bad
It's really not that hard so don't get too mad
The first thing that's cool is a thing called cons
I know you don't get it yet but this aint Afrikaans
A cons is when both cells of the pair are inputs
Together they're a great couple and have good looks
An example would be to have a pair with 4 and 7
The next little word is a thing called car
Knowing this concept will get you far
A car is when the only input is from the first cell
Do you need another example, I might as well
Take our pair of 4 and 7
Listen to this closely cause the answer's not 11
The car of this would be only four
Don't act too surprised or end up on the floor
The next little word is a thing called cdr
It's really fun but not fun you'll find at hooters
It's now when the only cell evaluated is the second
SO the cdr of the pair above would be 7
That's all I have to say about cons, car and cdr
Master these a you'll be a star of the computer

Finishing the year in CS 1120
Started the year with little knowledge now I have plenty
But that's why I'm here to get some knowledge
It's things like these you learn in college
2x

Now I want to talk about a thing called lists
To explain I'll need to be clear and talk with no lisp
A list can be something called null
Which sounds pretty exciting but it's actually dull
Null is when the list is empty
There's another option for a list, what could it be?
A list can be a pair with a list as the second cell
Now that you know the definition you better use it well
There's just one little thing you need to remember
And that's to use a base case or it won't run ever