



# Conses in Ruby: So Much More Than Lists

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Ruby is my ~~most~~ ~~second~~ third favorite programming language of all time.

1. My language, Teepee, eventually (*but not yet*)
2. Common Lisp
3. Ruby

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999. Java

**Nearly every programming language has a way  
to do a list of things.**

## Ruby has arrays.

```
1 a = [1,2,3,4,5]
2 a.class # Array
3 a.length # 5
4 a.first # 1
5 a.map {|ai| ai*2} # [2,4,6,8,10]
```

## Common Lisp prefers linked lists.

```
1 (setf a '(1 2 3 4 5))  
2 (class-of a) ; #<BUILT-IN-CLASS COMMON-LISP:CONS>  
3 (length a) ; 5  
4 (first a) ; 1  
5 (mapcar (lambda (ai) (* 2 ai)) a) ; '(2 4 6 8 10)
```

*Questions?*