### Linked Lisks

From messing around to production

## CCCOP

- o Started with cups and sticks
- o Created basic Lists in Javascript
- e Explored your first data structure
- o Discussed the API for Lists

### Real Lists have API

- o Need a documented and useful API
  - O Constructor: var l = new List()
  - o add elements: Ladd("something")
  - o Examine head: Lhead()
  - o Pop an element: L.pop()
  - o Get length: var len = 1.length()
  - @ Get last element in the list: var last = 1.last()

# Real Lists are

- o Testing is:
  - o automated (travis CI)
  - o tests all aspects of the API
  - o your friend at all times
  - o quick!!!
- o Golden rule: Red -> Green -> Refactor

### CUNIL INCro

```
QUnit.test("A new list is empty", function (assert) {
  var l = new List()
  assert.equal(l.empty(), true)
  assert.equal(l.head(), null)
});
```

#### Task instructions

- o Clone ListApi repo on codeX GitHub
- o Open the "list.js" and "list-test.js" files in an editor such as sublime
- o Open "test-setup.html" in a browser window.
- o Reload the page as you save your edits.
- @ READ THE CODE!!

"First, solve the problem. Then, write the code."

John Johnson

"The trouble with programmers is that you can never tell what a programmer is doing until it's too late."

Seymore Cray