

Showyou Importer

# Options

- Erlang
  - No good HTML parsers
  - Hard to learn
- Node.js
  - Great libraries (Riak, Redis, Memcache, etc)
  - 17 (non-unique) videos per second
  - 400 links checked per second
  - 15 MB/s
  - 80% cache hit rate (memcache)
  - One machine: load average of 0.41

# CoffeeScript

```
Twitter = require('./twitter')  
OAuth = require('oauth').OAuth
```

```
class TwitterStream
```

```
constructor: (ids, callback) ->
```

```
  oauth = new OAuth(  
    'http://api.twitter.com/oauth/request_token',  
    'http://api.twitter.com/oauth/access_token',  
    Twitter.app_key, Twitter.app_secret, '1.0', null, 'HMAC-SHA1')
```

```
  @req = oauth.get(  
    "https://sitestream.twitter.com/2b/site.json?follow=#{ids.join('%2C')}",  
    Twitter.showyou_key, Twitter.showyou_secret)
```

```
  @req.on "response", (res) ->  
    res.setEncoding('utf8')  
    res.on "data", (chunk) -> callback(null, chunk)
```

```
  @req.end()
```

```
close: -> @req.abort()
```

# Javascript

```
(function() {  
  var OAuth, Twitter, TwitterStream;  
  Twitter = require('./twitter');  
  OAuth = require('oauth').OAuth;  
  
  TwitterStream = (function() {  
    function TwitterStream(ids, callback) {  
      var oauth;  
      oauth = new OAuth(  
'http://api.twitter.com/oauth/request_token',  
'http://api.twitter.com/oauth/access_token',  
Twitter.app_key, Twitter.app_secret, '1.0', null, 'HMAC-SHA1');  
      this.req = oauth.get(  
        "https://stream.twitter.com/2b/site.json?follow=" + (ids.join("%2C")),  
        Twitter.showyou_key, Twitter.showyou_secret);  
      this.req.on("response", function(res) {  
        res.setEncoding('utf8');  
        return res.on("data", function(chunk) {  
          return callback(null, chunk);  
        });  
      });  
      this.req.end();  
    }  
    TwitterStream.prototype.close = function() {  
      return this.req.abort();  
    };  
    return TwitterStream;  
  })();  
}).call(this);
```

# Weaknesses

- Hanging callbacks

```
var getUser = function(key, complete) {  
  if (!key || key == "") {  
    sys.puts "Key can't be blank!";  
  }  
  else {  
    riak.get("users", key, complete);  
  }  
};
```

- Exception handling

node inspector

0.0.0.0:8080/debug?port=5858

Mail Google+ Reader Calendar Photos Docs Mealfire Bank Weather Bookmarks Other Bookmarks

Scripts Profiles Console

CPU PROFILES

HEAP SNAPSHOTS

Snapshot 1

Snapshot 2

Constructor	Count	Size	± Count	± Size
String	186790	52.89MB	+36590	-993.83KB
Object	30286	9.67MB	+8122	+3.62MB
(closure)	49910	7.83MB	+14076	+2.10MB
(code)	7860	3.79MB	+761	+575.34KB
Array	33792	3.26MB	+8664	+628.82KB
Socket	1653	394.98KB	+319	+75.62KB
ClientRequest	1649	360.72KB	+319	+69.78KB
IncomingMessage	1602	237.80KB	+304	+45.13KB
Arguments	2530	171.01KB	+803	+52.82KB
RegExp	2133	149.98KB	+711	+49.99KB
Agent	1649	115.95KB	+328	+23.06KB
Date	1570	49.06KB	+301	+9.41KB
IOWatcher	299	20.98KB	+77	+5.41KB
HTTPParser	145	20.11KB	+40	+5.63KB
ClearTextStream	87	16.24KB	+26	+4.88KB
(global property)	1035	16.17KB	0	0B
SecurePair	87	14.27KB	+26	+4.27KB
EncryptedStream	87	8.23KB	+26	+2.44KB
SlowBuffer	72	6.75KB	+25	+2.34KB
Buffer	84	5.98KB	+20	+1.41KB
Module	66	5.67KB	0	0B
TwitterEStream	81	4.46KB	+27	+1.48KB

Code	Count	Total	Code	Size	Total
7860	319269	327129	3.79MB	75.36MB	79.15MB

Compared to Snapshot 1 ↓ %