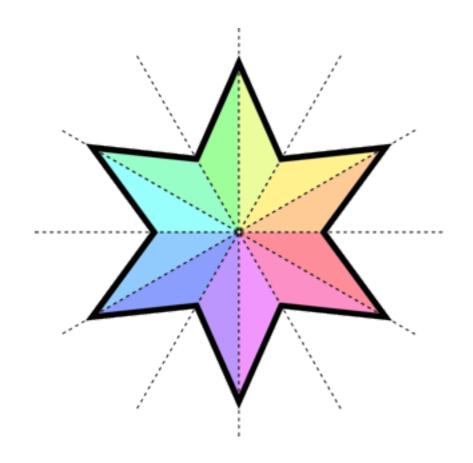
Indie node.JS

Make your dream app come true with Node



Giovanni . Donelli @ gmail.com @gdonelli

Product Design in Node

Ideally the presentation I would have wanted to see when I started building a product with node.JS

My experience

Engineering + Design = Product

2002

Indie	Apple	indie
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Mac Shareware Apps

Mac OS X (System Apps & Frameworks)

Mac OS X Engineering Kernel Engineering Objective-C, C iOS node.JS HTML5



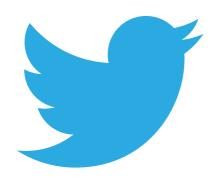


Modern App





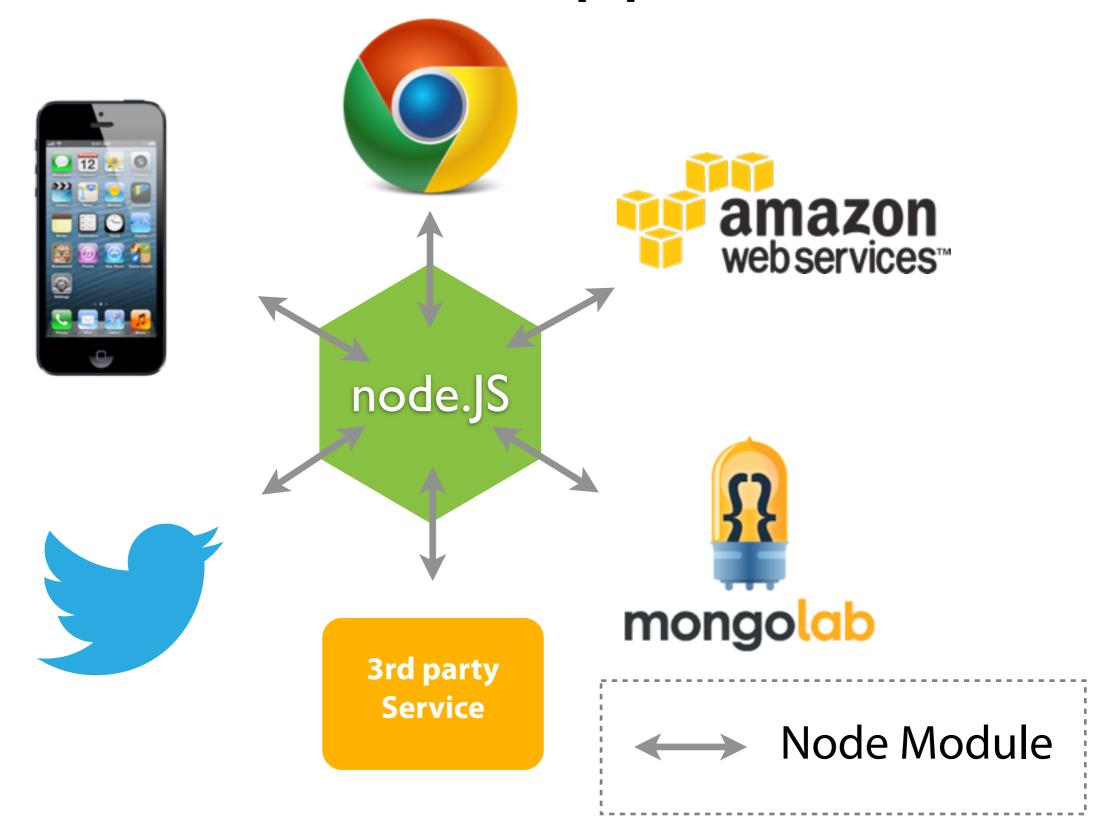






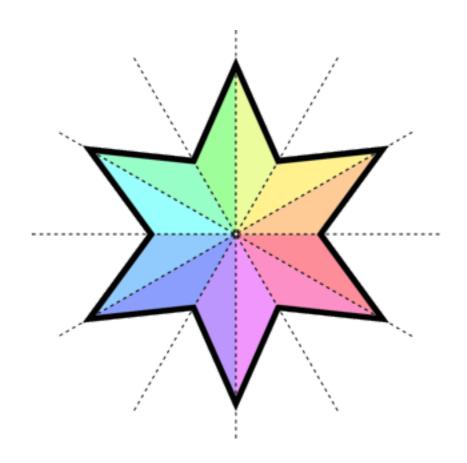
3rd party Service

Modern App



EssenceApp.com

Case Study

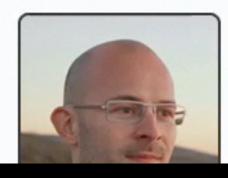


http://github.com/gdonelli/essence



Tweets

1 new Tweet



Giovanni Donelli @gdonelli I will be going to Italy in the

Things to cover

- Node Modules: express/connect
 - socket.io
 - request
 - async
 - underscore
 - require-use

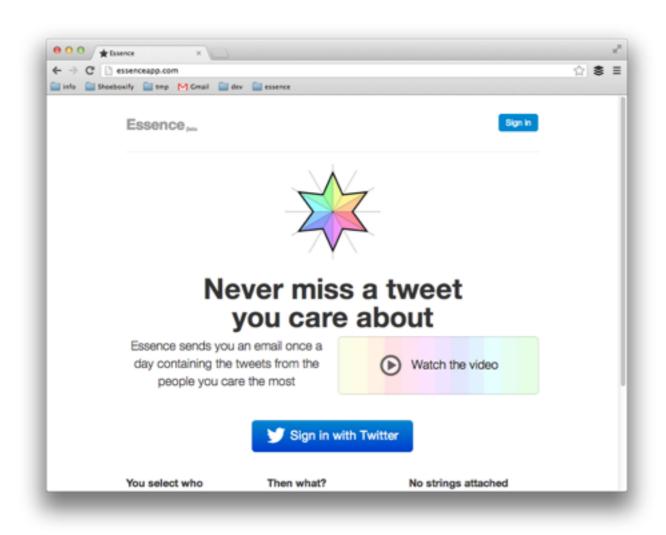
3rd Party Tools:

I have no positions in any stocks mentioned

- Nodejitsu (deployment)
- Nodefly (monitoring)

Node Modules

http server/session



Modules:

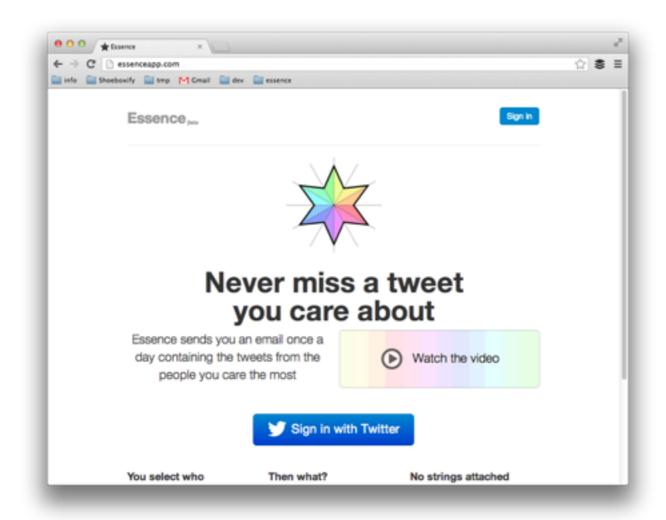
- express
- connect
- connect-mongo

Web UI framework:

Bootstrap

Socket.io & UI

Demo



Socket.io

- Friend progress bar:

```
socket.volatile.emit( 'progress', 0.5);
```

- Rooms concept is great:

```
socket.join('gdonelli'); // on login
[...]
io.sockets.in('gdonelli').emit('hello', data);
```

- Speed: ~2x AJAX
- Great Semantics
- Fast Development & Easy Syncing
- Issues with mobile (need to investigate)

request

like native 'http' and 'https', but better



```
var requestTokenURL =
   'https://api.twitter.com/oauth/request_token';

var oauth = _makeOAuth( ... );

request.post({
    url: requestTokenURL,
    oauth: oauth,
    timeout: authentication.timeout
   },
   function (err, postPonse, body) {
     // authentication
   })
```

async

pyramid of doom

```
// Code uses jQuery to illustrate the Pyramid of Doom
(function($) {
  $(function(){
    $("button").click(function(e) {
      $.get("/test.json", function(data, textStatus, jqXHR) {
        $(".list").each(function() {
          $(this).click(function(e) {
            setTimeout(function() {
              alert("Hello World!");
            }, 1000);
          });
        });
      });
    });
 });
})(jQuery);
```

source: http://tritarget.org/blog/2012/11/28/the-pyramid-of-doom-a-javascript-style-trap/

async

reduces pyramid of doom & better control flow

```
function UserDidLogin(twitterId, callback)
  async.waterfall(
        function(callback) { // Get userEntry
             _findUserWithTwitterId(twitterId, callback);
         function(userEntry, callback)
              userEntry.last_login = new Date();
              callback(null, userEntry)
         },
         database.saveUserEntry
     callback);
```

async

reduces pyramid of doom & better control flow

```
function GetEssenceForUser(vipArray, callback)
     async.map(vipArray
          , function(vip, callback)
                                                            John D.
                    GetTweets(vip, callback);
                                                           Will go to India to find myself. #JustNow
           function(err, results)
                                                            Zen Master
                    if (err)
                                                           Things happen as they should. #wisdom
                         return callback(err);
                   MakeEssence(results, callback)
            });
```

_ (underscore.js)

Collections	<u>Arrays</u>	Functions	<u>Objects</u>	<u>Utility</u>
1 – <u>each</u>	1 – <u>first</u>	1 – <u>bind</u>	1 – <u>keys</u>	1 - noConflict
2 – <u>map</u>	2 – <u>initial</u>	2 – <u>bindAll</u>	2 – <u>values</u>	2 – <u>identity</u>
3 – <u>reduce</u>	3 – <u>last</u>	3 - <u>partial</u>	3 - <u>pairs</u>	3 – <u>times</u>
4 - <u>reduceRight</u>	4 – <u>rest</u>	4 – <u>memoize</u>	4 – <u>invert</u>	4 - <u>random</u>
5 – <u>find</u>	5 - <u>compact</u>	5 – <u>delay</u>	5 – <u>functions</u>	5 – <u>mixin</u>
6 – <u>filter</u>	6 – <u>flatten</u>	6 – <u>defer</u>	6 – <u>extend</u>	6 – <u>uniqueld</u>
7 – <u>where</u>	7 – <u>without</u>	7 – <u>throttle</u>	7 – <u>pick</u>	7 - <u>escape</u>
8 – <u>findWhere</u>	8 – <u>union</u>	8 – <u>debounce</u>	8 – <u>omit</u>	8 - <u>unescape</u>
9 – <u>reject</u>	9 - <u>intersection</u>	9 – <u>once</u>	9 - <u>defaults</u>	9 – <u>result</u>
10 – <u>every</u>	10 - <u>difference</u>	10 - <u>after</u>	10 – <u>clone</u>	10 - <u>template</u>
11 – <u>some</u>	11 - <u>uniq</u>	11 - <u>wrap</u>	11 - <u>tap</u>	
12 - contains	12 – <u>zip</u>	12 – <u>compose</u>	12 - <u>has</u>	
13 – <u>invoke</u>	13 – <u>object</u>		13 – <u>isEqual</u>	
14 – <u>pluck</u>	14 – <u>indexOf</u>		14 - <u>isEmpty</u>	
15 – <u>max</u>	15 - <u>lastIndexOf</u>		15 – <u>isElement</u>	
16 - <u>min</u>	16 - <u>sortedIndex</u>		16 - <u>isArray</u>	
17 - <u>sortBy</u>	17 - <u>range</u>		17 – <u>isObject</u>	
18- <u>groupBy</u>			18 - <u>isArguments</u>	
19 - <u>countBy</u>			19 - isFunction	
20 – <u>shuffle</u>			20 – <u>isString</u>	
21 - <u>toArray</u>			21 - <u>isNumber</u>	
22 – <u>size</u>			22 – <u>isFinite</u>	
			23 - <u>isBoolean</u>	

use-require

Imagine the `require` command to import your files...

```
var http = require('http')
, twitter = require('../code/twitter')
```

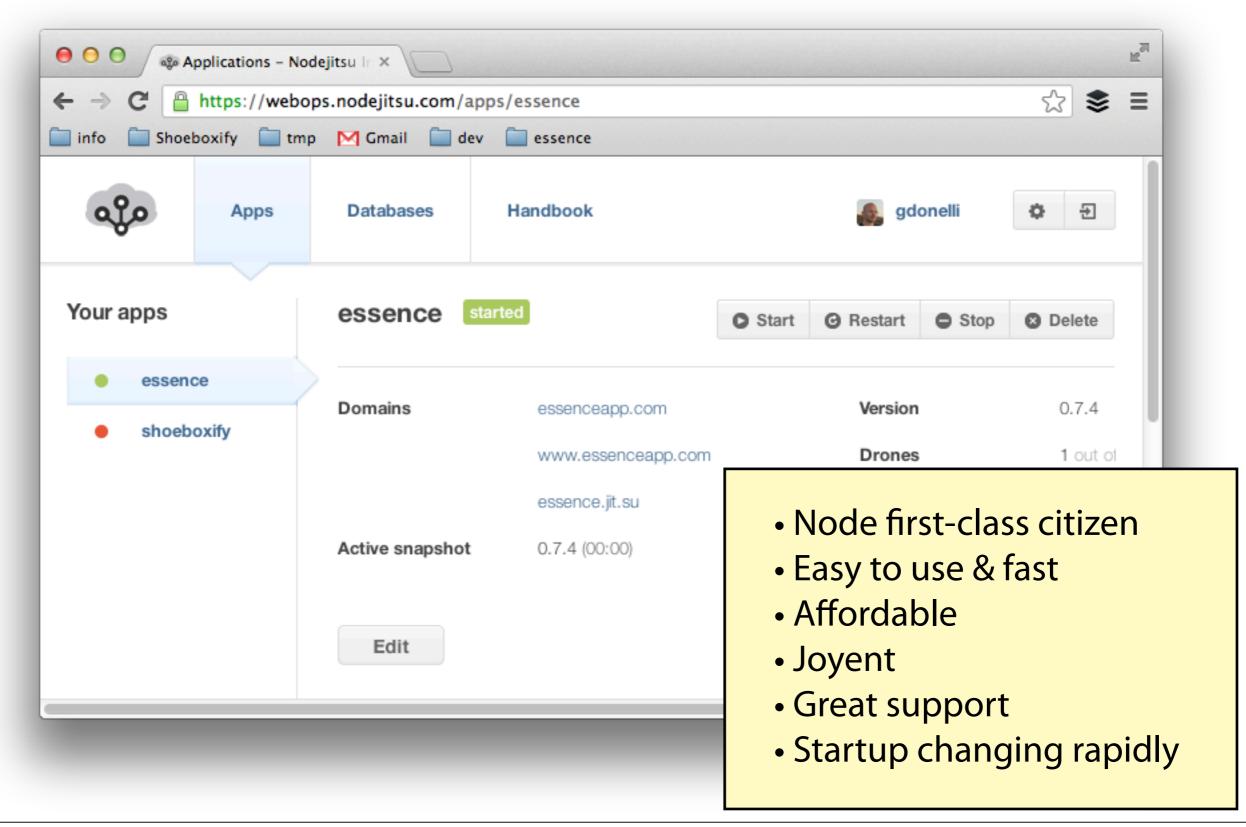
...without having to specify the full path:

```
var http = require('http')
, twitter = use('twitter')
```

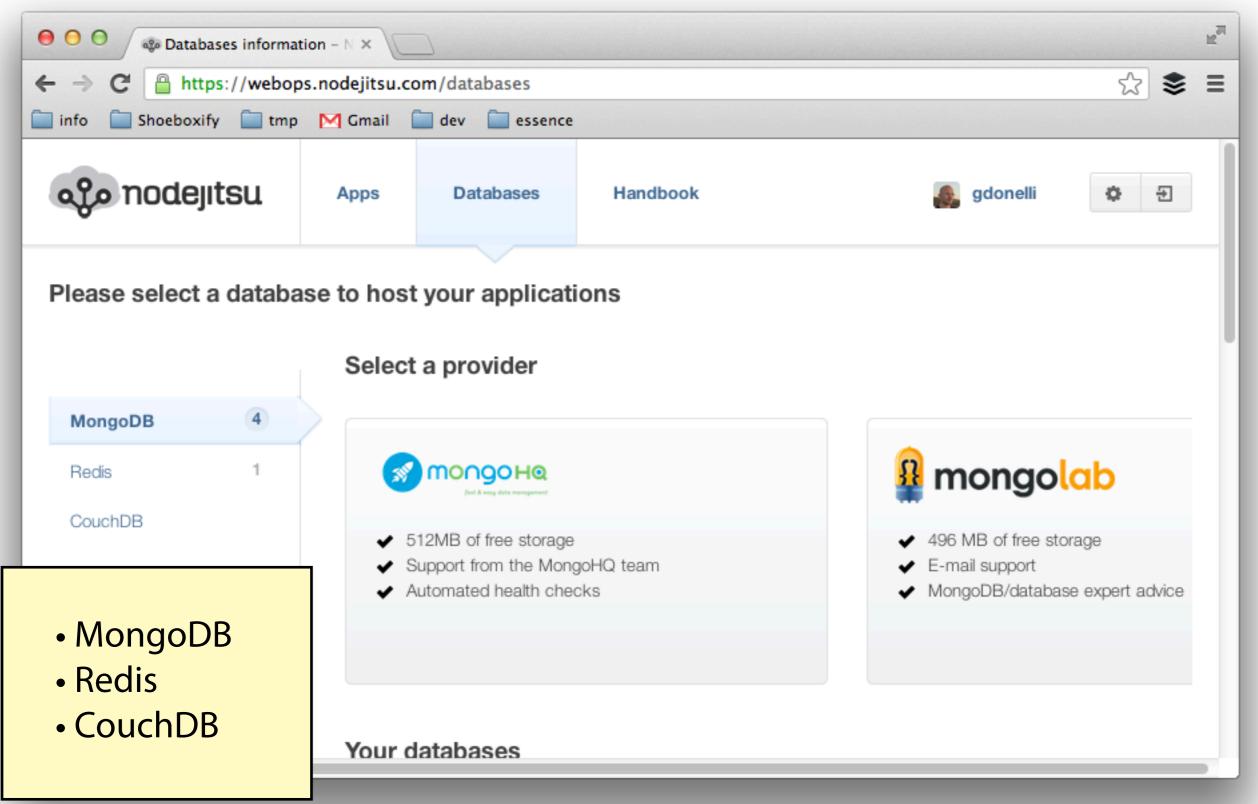
3rd Party Tools

I have no positions in any stocks mentioned

Nodejitsu



Nodejitsu



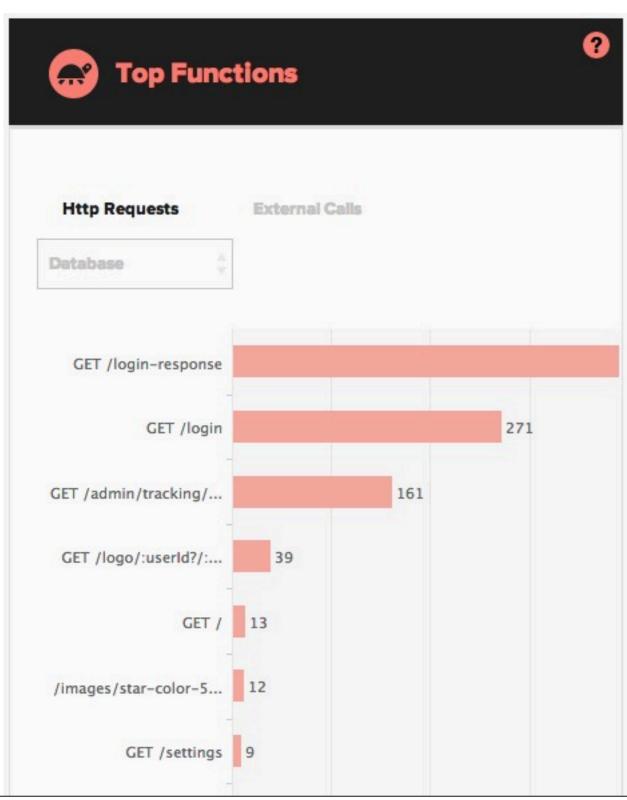
Nodejitsu

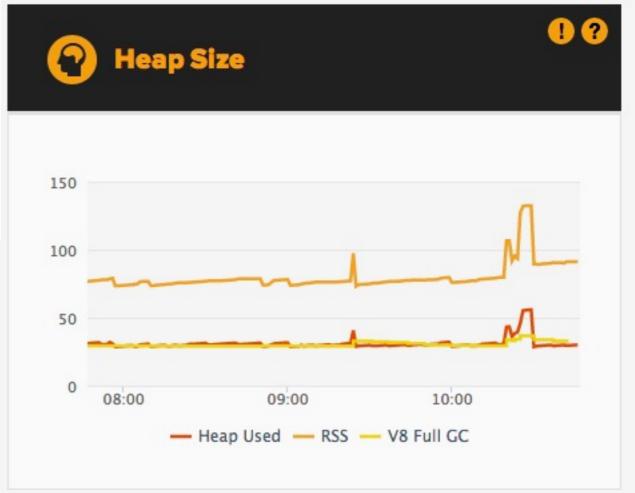
Growing pains

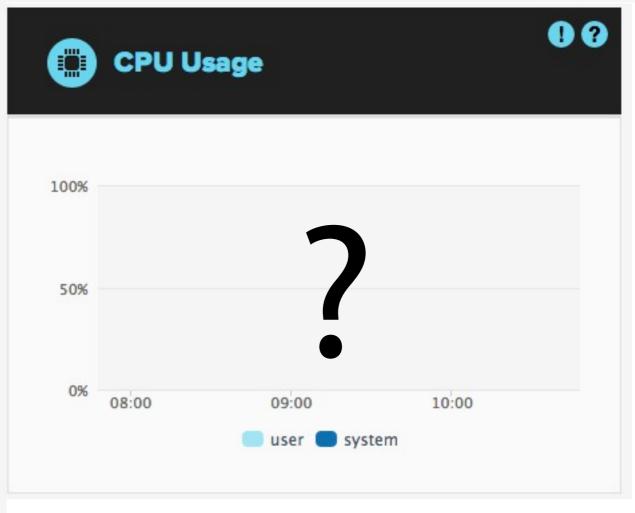
No free servers available. Please visit #nodejitsu on irc.freenode.net or email support@nodejitsu.com for further information.

They do have great support

NodeFly.com







Q&A