Hubot

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Coffeescrip primer

Node.js basi

Project structui

Main class

Practica

Hubot Node.js IRC bot

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3 Dec, 2012

Outline

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5 Practical

Sample

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Practio

Coffeescript is a language that compiles to Javascript. It tends to be quite a bit more concise.

```
square = function(x) {
                                          return x * x:
                                        };
                                        if (typeof elvis !== "undefined" && elvis !== null) {
# Functions:
                                          alert("I knew it!");
square = (x) \rightarrow x * x
# Existence:
                                        cubes = (function() {
alert "I knew it!" if elvis?
                                          var _i, _len, _results;
                                          _results = [];
# Array comprehensions:
                                          for ( i = 0, len = list.length; i < len; i++) {
cubes = (math.cube num for num in list)
                                            num = list[_i];
                                            _results.push(math.cube(num));
                                          return results:
                                        1)():
```

What is it?

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- Node is a software framework that allows you to write server-side applications in Javascript.
- Supposed to provide performant, asynchronous I/O in an easy-to-use package.
- Hubot was likely implemented on top of this because Coffeescript has been the hot thing lately.

Hello World!

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This simple example (pulled from http://nodejs.org) notifies the host OS that it wants to listen on a given address and port, and defines a callback for all requests. In this case, it returns Hello World.

```
var http = require('http');
http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/plain'});
  res.end('Hello World\n');
}).listen(1337, '127.0.0.1');
console.log('Server running at http://127.0.0.1:1337/');
```

The project

```
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```

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Practical

- Most everything is pulled in as dependencies by NPM (Node Package Manager)
- Scripts can be pulled in by listing them in hubot-scripts.json
- hubot itself is pulled in as a dependency

robot.coffee

Hubot

Main class

Methods of note:

- hear attempts to match words within a sentence
- respond attempts to respond to directed requests
- enter/leave performs action when a user enters/leaves the room
- reply sends the built reply to the adaptor to handle

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Steps to add a simple plugin:

Fork and clone jcsims/hubot

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- Fork and clone jcsims/hubot
- 2 Create a topic branch git branch branchname

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- Fork and clone jcsims/hubot
- Create a topic branch git branch branchname
- 3 Find a plugin that's close, copy and modify as needed

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- Fork and clone jcsims/hubot
- Create a topic branch git branch branchname
- 3 Find a plugin that's close, copy and modify as needed
- Commit changes, push to github

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- Fork and clone jcsims/hubot
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- 3 Find a plugin that's close, copy and modify as needed
- 4 Commit changes, push to github
- 5 Initiate a pull request

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- Fork and clone jcsims/hubot
- Create a topic branch git branch branchname
- 3 Find a plugin that's close, copy and modify as needed
- 4 Commit changes, push to github
- 5 Initiate a pull request
- 6 Profit!!!