

JAVASCRIPT DEVELOPMENT

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HELLO!

Pull changes from the svodnik/jsd5 repo to your computer

JAVASCRIPT DEVELOPMENT

SLACK BOT LAB

LEARNING OBJECTIVES

At the end of this class, you will be able to

- Install and configure all utilities needed to run a Hubot
- Write scripts that allow your Hubot to interact with users of the class Slack organization

AGENDA

- Install and configure utilities and accounts
- Explore sample code for bots
- Plan what you'd like your bot to do
- Create a basic bot to verify that your setup works
- Expand on your basic code to add your planned functionality

SLACK BOT LAB

Checkin and questions

- The most significant thing I learned about Scope and Closures is
 - _____•
- My biggest outstanding question about Scope and Closures is
 - _____•

SLACK BOTS

SLACK BOT LAB

SLACK AND BOTS

- Bot: A script programmed to interact with users as if it's a person
 - Slackbot
 - PlusPlus
- We will use a framework to create our own bots with interactive behaviors that we specify with our code
- These bots will be members of our class Slack organization

HUBOT

- **Hubot**: A framework meant to speed the process of developing bots for a variety of platforms, including Slack
- Includes built-in functionality for performing common bot tasks, such as posting images.
- We will use the Hubot framework to create our bots

HUBOT VS SLACK BOT VS SLACKBOT

- Hubot is the framework we're using
- ightharpoonup Each of us will be building a bot for Slack = = = a Slack bot
- Slackbot is the name of a specific bot already installed in our Slack organization; it answers questions about how to use Slack

HEROKU

- Heroku: A platform for hosting and running apps in the cloud.
- We will create our code on our computers, then push it to Heroku so it can run even when our computers are sleeping or shut down

YEOMAN

- Yeoman: A set of tools that provides a scaffolding (basic structure) for getting web apps up and running quickly
- We'll use a Yeoman tool called yo, which automates a lot of behind-thescenes work

COFFEESCRIPT

- CoffeeScript: A variant of JavaScript, intended to be more readable and faster to type.
- Only JavaScript can run in browsers
 - Before being used, CoffeeScript code must be compiled, which is a process that translates it into JavaScript
- Many Hubot examples are written in CoffeeScript, but you can write Hubot code in vanilla JavaScript without any problem

UNDERSTANDING THE HUBOT FRAMEWORK

```
As a framework, Hubot has its own way of doing things
The code for your bot behaviors is structured as follows:
module.exports = function(robot) {
    robot.verb(parameter1, function(res) {
        return res.command();
     });
};
```

BASIC HUBOT VERBS

- hear: called anytime a message's text matches
- respond: called for messages immediately preceded by the robot's name or alias

LEARNING OBJECTIVES - REVIEW

- Install and configure all utilities needed to run a Hubot
- Write scripts that allow your Hubot to interact with users of the class Slack organization

NEXT CLASS PREVIEW Objects and JSON

- Identify likely objects, attributes, and methods in real-world scenarios
- Write a constructor for a JavaScript object
- Implement and interface with JSON data

Exit Tickets!

Q&A