

TO TEST YOUR BOT LOCALLY

- 1. At the command line, navigate to the main folder for your bot.
- 2. Type ./bin/hubot and press Enter. This gives a few warning messages that you can safely ignore, as long as the BASH prompt is not displayed again after them.
- 3. Press **Enter**, after which you should see a prompt such as hubot> that lets you interact with your bot.
- 4. When you're done testing, press **control** + **C** to return to the BASH prompt.

TO TEST YOUR BOT ON SLACK

- 1. At the command line, navigate to the main folder for your bot.
- 2. Push your code to Heroku using the following commands:
 git add .
 git commit -m "description of changes"
 - git push heroku master
- 3. Open a direct message with the bot you're sharing in the class Slack organization (such as redbot or greenbot).
- 4. Send a direct message to interact with your bot. Remember that the bot's replies may reflect the code of the classmate sharing your bot on Slack, as well as your own code, so you may get multiple replies to a single test message.

VAR, LET, & CONST

keyword	local scope	mutable	browsers
var	function only	yes	all
let	any block	yes	modern
const	any block	no	modern

FUNCTIONS & HOISTING

type	name hoisted	content hoisted
declaration	yes	yes
let expression	no	no
var expression	yes	no

GLOBAL, LOCAL, & BLOCK SCOPE

```
a variable declared outside of a function is in the global scope
let temp = 75;
                                                       a variable
function predict() {
                                                       declared within a
  let forecast = 'Sun'; ←
                                                       function is in the
                                                       local scope of that
  console.log(temp + ' and ' + forecast);
                                                       function
  // 75 and Sun
                                                       a variable
                                                       declared with let
if (temp > 70) {
                                                       and within a block,
  let forecast = 'It's gonna be warm!';
                                                       such as an if
                                                       statement, is in
  console.log(temp + '! ' + forecast);
                                                       the block scope of
  // 75! It's gonna be warm!
                                                       that statement
```