

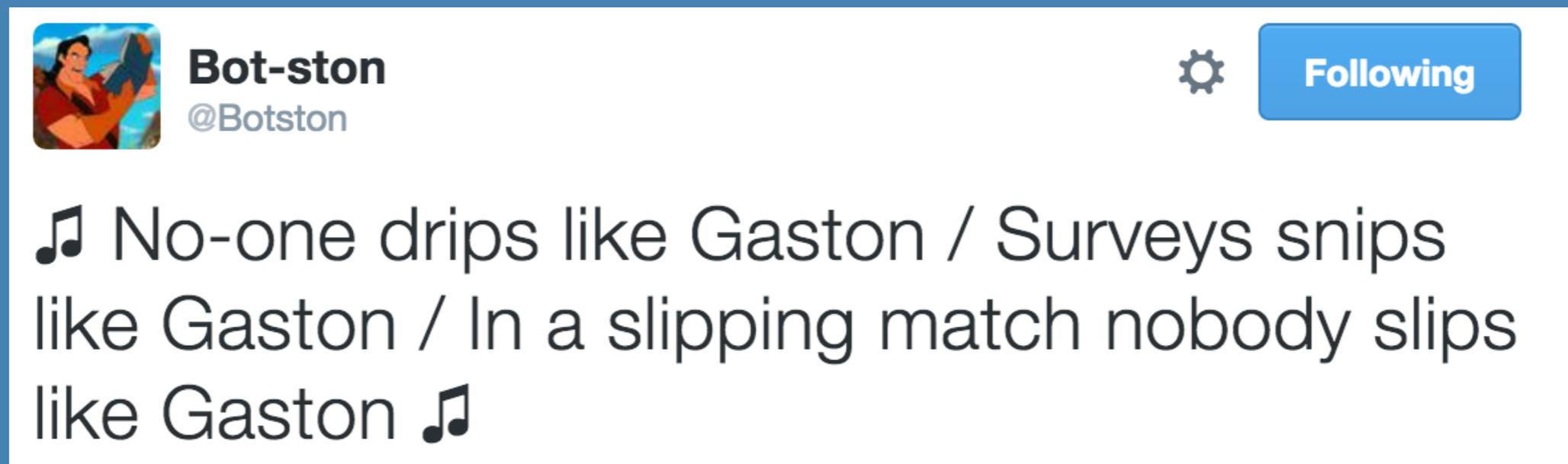
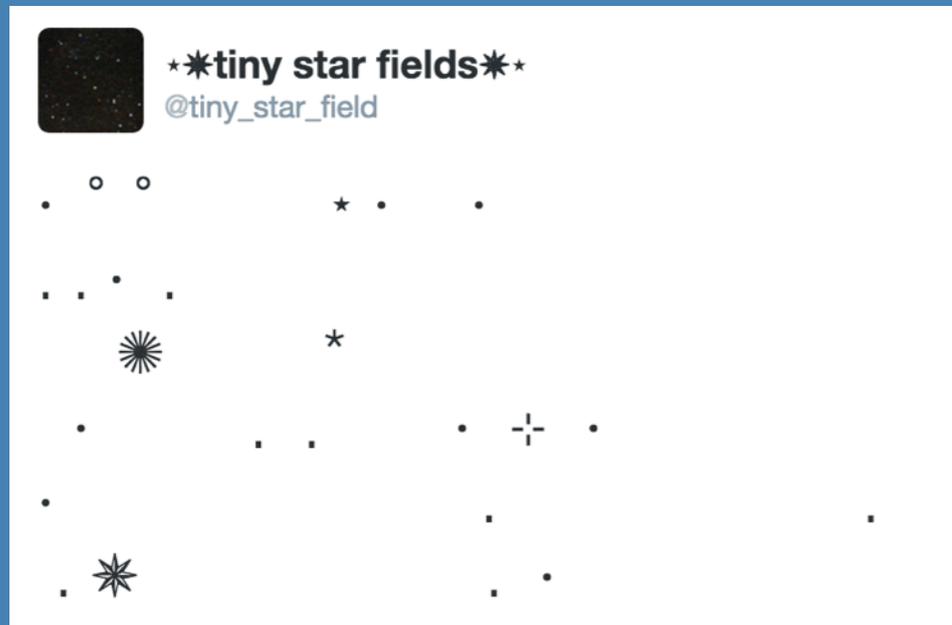
Building Twitter Bots in Node

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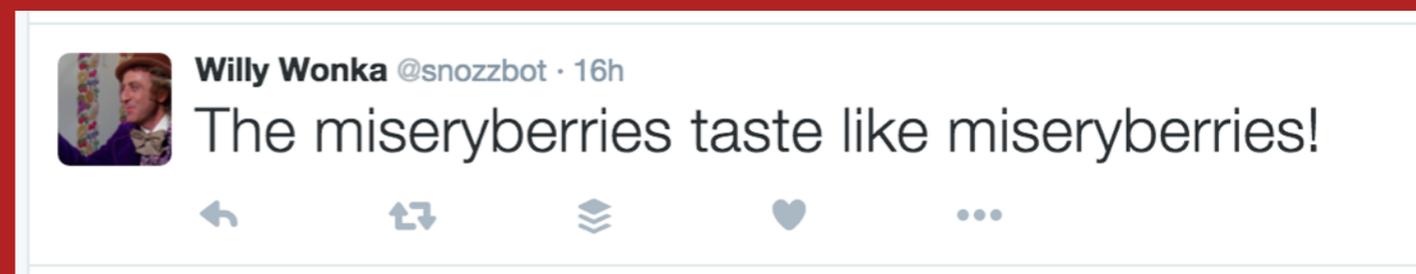
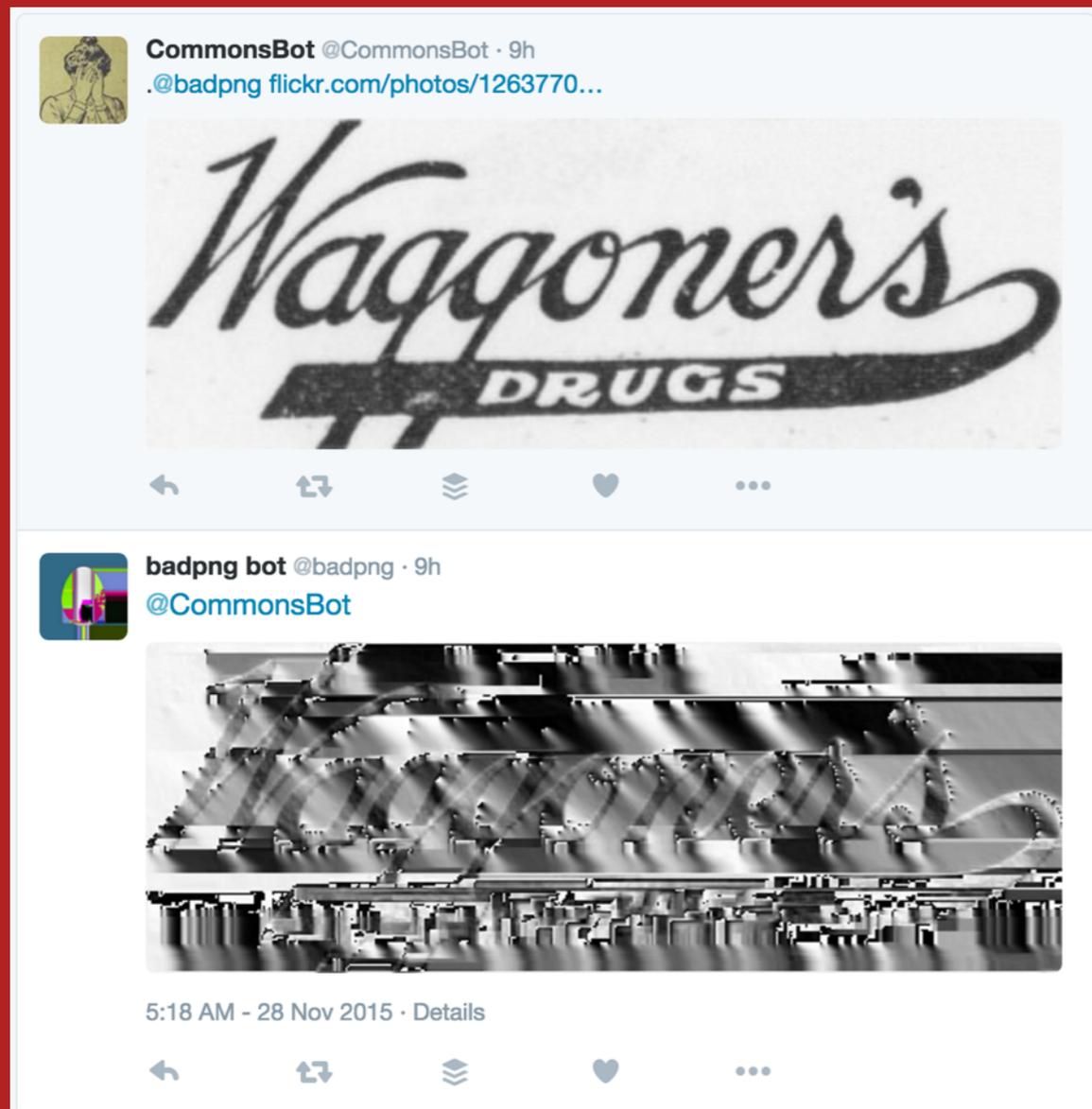
Who's this guy?

Why ~~should you~~ build twitter bots? do I



What does a twitter bot need?

- Some bit of code, for posting to twitter
- Write access to a twitter account
- A way to post responsively, or on a schedule



What are we going to do?



Willy Wonka @snozzbot · 12h

The prophecyberries taste like
prophecyberries!



Get a word from the Wordnik API

Mix that word into a tweet

Post that tweet to twitter

Let's start coding!

```
bash-3.2$ npm install --save twit request iscool
```

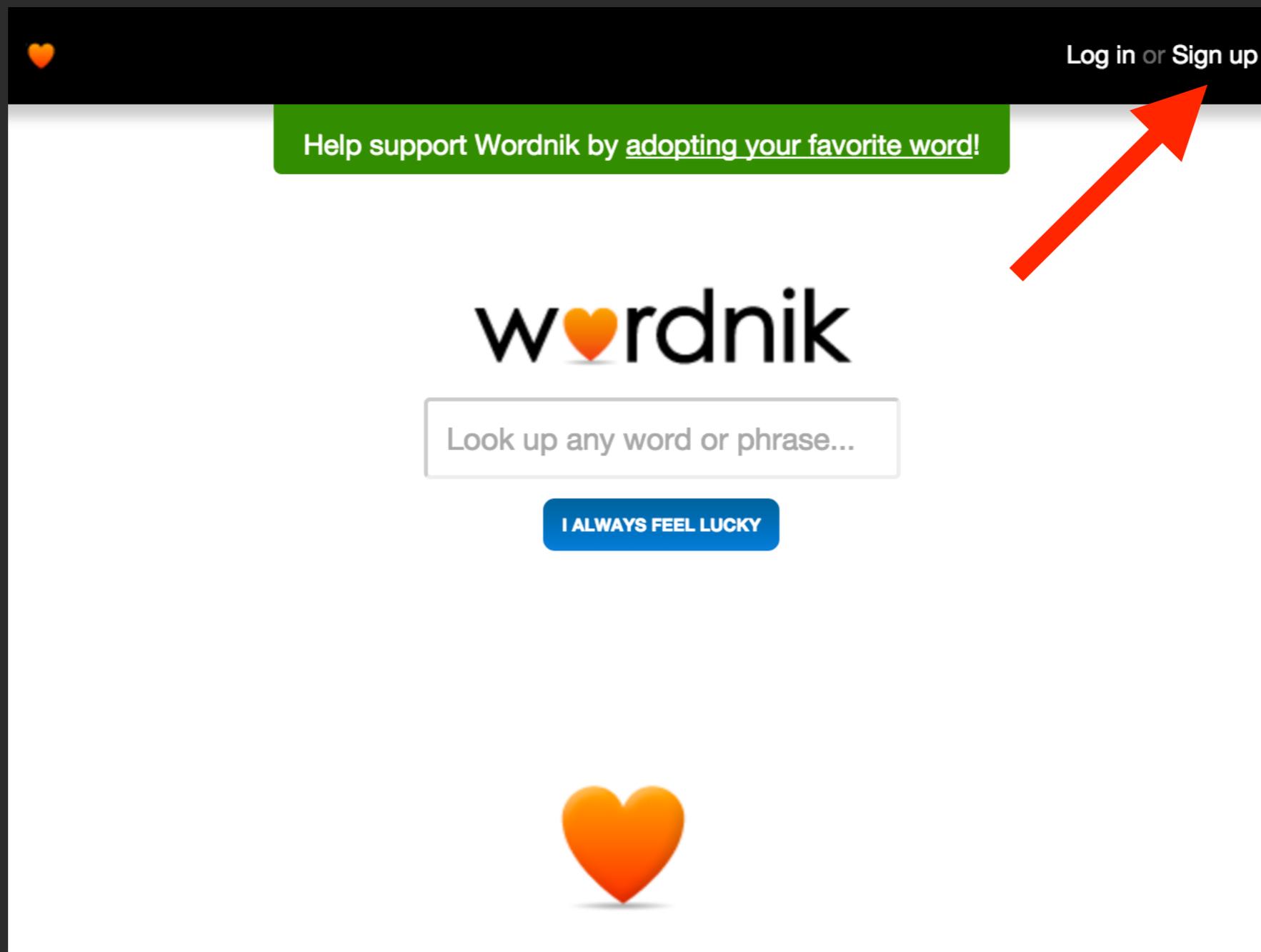
```
"dependencies": {  
  "iscool": "^1.1.14",  
  "request": "^2.67.0",  
  "twit": "^2.1.1"  
},
```

Let's start coding!

```
var request = require('request');  
var createIsCool = require('iscool');  
  
var baseNounUrl = 'http://api.wordnik.com:80/v4/words.json/randomWord&api_key=';  
var getNounUrl = baseNounUrl + require('./permissions.js').key;  
  
var isCool = createIsCool();
```

We need a key!

<https://www.wordnik.com>



We need a key!

<http://developer.wordnik.com/>

The screenshot shows the 'developer.wordnik.com' website. At the top, there is a navigation bar with links for 'Docs', 'Libraries', 'Showcase', 'Support', 'Changelog', and 'Sign Up'. Below the navigation bar, the page is titled 'Code libraries!' and includes the text: 'Use these libraries to get a jump start in integrating Wordnik's APIs with your applications.' A grid of 20 icons represents various programming languages and frameworks, including JS, Java, Android, Scala, Ruby, GraphQL, Python, F#, Spring, PHP, RSpec, Camel, Temboo, and iOS. To the right of the grid, there is a text block that says 'Wordnik has an API, and you're invited.' followed by a list of API capabilities. Below this text is a registration form with two fields: 'Your wordnik.com Username *' and 'How might you use the API? *'. A red arrow points from the 'Scala' icon in the grid to the 'Your wordnik.com Username *' field.

We need a key!

<https://www.wordnik.com/users/edit>

wordnik Community Word of the day Random word

Save changes

Change Password

New password

New password confirmation

Change password

Your Wordnik API key

Your API key is: thishereisakeyalright



We need a key!

permissions.js

```
module.exports = {  
  key: 'thishereisakeykindof'  
};
```

Let's start coding!

```
function tweetSnozz() {
  var noun = '',
      tweet = 'The ',
      fruitstring;
  //let's get some adjectives!
  request(getNounUrl, function(error, response, data) {
    // let's make sure we're dealing with JSON
    var nounData = JSON.parse(data);
    console.log(nounData);
    if (!error) {
      noun = nounData.word;
      // if we got back some data from the API and it didn't error
      if (isCool(noun) && !(noun[0] === noun[0].toUpperCase())){
        console.log(noun);
        fruitstring = noun + 'berries';
        tweet += fruitstring + ' taste like ' + fruitstring + '!';
        console.log(tweet);
        return;
      } else {
        tweetSnozz();
      }
    }
  });
}
```

Add some twitter

Twitter doesn't like
~~developers~~
bots

Add some twitter

```
$ gem install twurl
```

```
bash-3.2$ twurl --authorize --consumer-key "key"  
--consumer-secret "secret"
```

```
bash-3.2$ cat ~/.twurllrc
```

Add some twitter

config.js

```
module.exports = {  
  consumer_key: 'consumer_key',  
  consumer_secret: 'consumer_secret',  
  access_token: 'access-token',  
  access_token_secret: 'access-token-secret'  
};
```

Add some twitter

```
var request = require('request');
var Twit = require('twit');
var T = new Twit(require('./config.js'));
var createIsCool = require('iscool');

function tweetWord(word) {
  T.post('statuses/update', {status: word}, function(err, reply) {
    if (err) {
      console.log('error:', err);
    } else {
      console.log('tweet:', reply);
    }
  });
}
```

Add some twitter

```
if (!error) {  
  noun = nounData.word;  
  // if we got back some data from the API and it didn't error  
  if (isCool(noun) && !(noun[0] === noun[0].toUpperCase())){  
    console.log(noun);  
    fruitstring = noun + 'berries';  
    tweet += fruitstring + ' taste like ' + fruitstring + '!';  
    console.log(tweet);  
    tweetWord(tweet);  
    return;  
  } else {  
    tweetSnozz();  
  }  
}
```

Make it Run

```
# m h dom mon dow  command
13 * * * * * nodejs  index.js
```

Where do we go from here?

Go Forth and Bot!

Bots are:

- Fun
- Hopefully straightforward
- Art

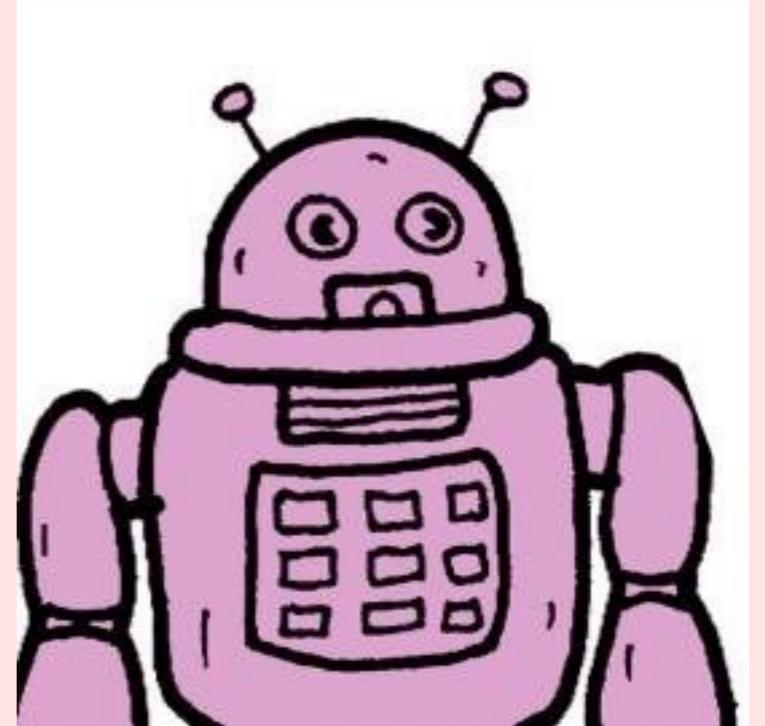
Bots need:

- Some bit of code, for posting to twitter
- Write access to a twitter account
- A way to post responsively, or on a schedule

The World Needs Your Twitterbot!

Credits

Erin McKean (@emckean)



Darius Kazemi (@tinysubversions)



I gave this talk - you can too!

Thanks!
Questions?

