

ChatOps

Look Who's Talking

We all know

our friend

Hello, Hubot.



Doesn't Hubot only know **pugs**?

@Hubot pug me



What if Hubot could do more?

What if Hubot was part of the
team?

Where did he come from?

- Created by **GitHub**
- `github.com/github/hubot`

Sample Scripts

- `github.com/github/hubot-scripts`

How does **GitHub use
Hubot?**

Deployments

jonathan @Hubot deploy github/myfeature to
production

Hubot @jonathan deployed myfeature

Recent Deployments

jonathan @Hubot deployed

Hubot @jonathan deployed myfeature today at 3:30 PM

Hubot @nick deployed hotfix yesterday at 4:43 PM

Hubot @sha deployed awesome yesterday at 12:23 PM

Deployments

jonathan @Hubot deploy github/myfeature to
production

Hubot @jonathan deployed myfeature

Status

jonathan @Hubot I'm working on the best presentation ever

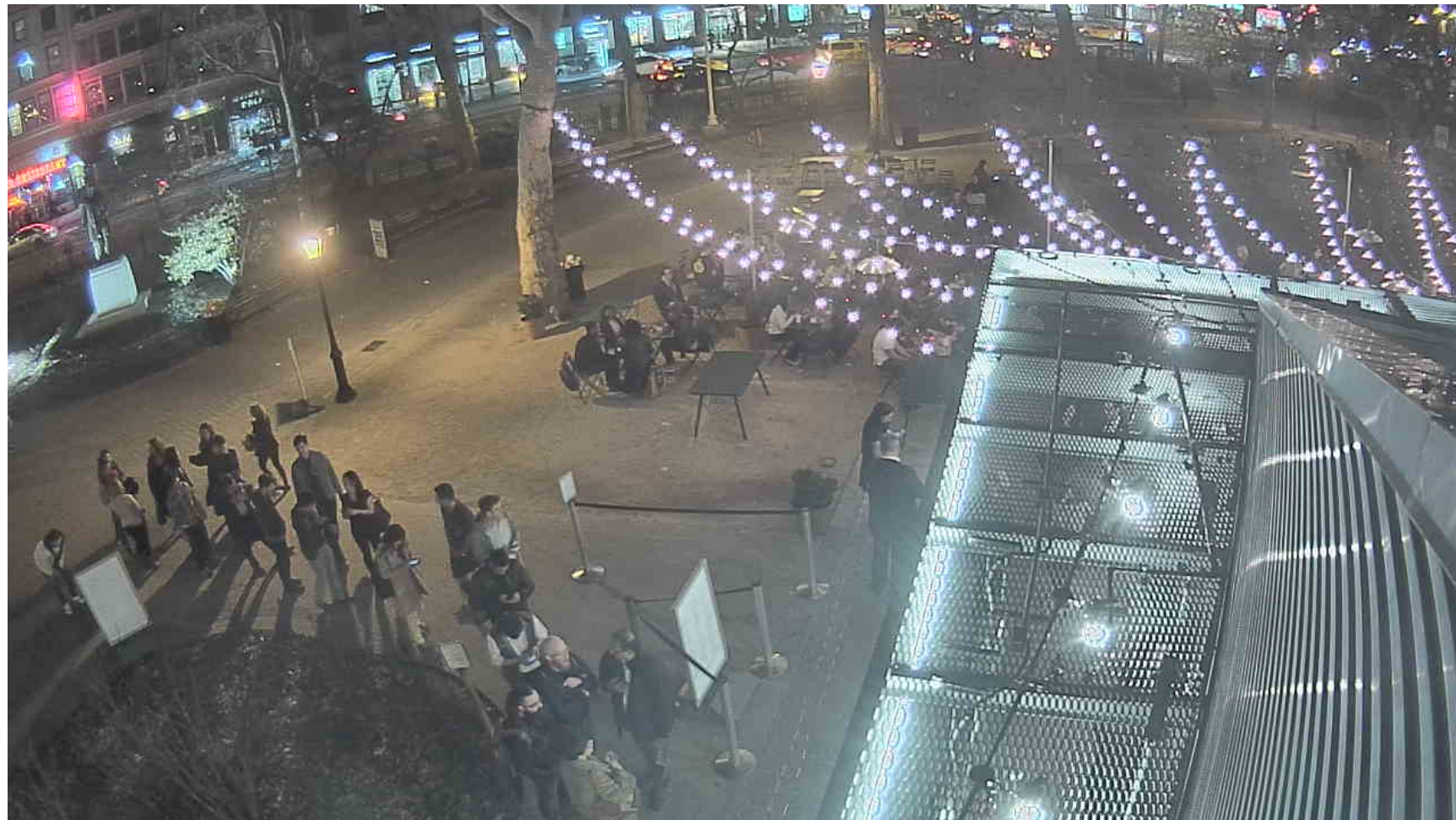
Hubot got it!

nick @Hubot what is jonathan working on?

Hubot Jonathan is working on the best presentation ever

How busy is shake shack?

rick @Hubot shake cam



I know what you are
thinking...

What about

chipotle?

Maybe not everyone... just Rick

But *why* not just write a script?

A non-chat script?

ChatOps is about
communication

**It gives your entire team
insight into whats been
run**

**It gives other team
members the ability to
run scripts**

Anatomy of a Script

It's just Node

```
module.exports = function(robot) {  
  robot.respond(/is it (weekend|holiday)\s?\?/i, function(msg){  
    var today = new Date();  
  
    msg.reply(today.getDay() === 0 || today.getDay() === 6 ? "YES" : "NO");  
  });  
}
```

Most written in coffee script

```
module.exports = (robot) ->  
  robot.respond /shake cam/i, (msg) ->  
    msg.send 'http://www.shakeshack.com/camera.jpg'
```

Are you listening?

because Hubot is...

Hearing & Responding

robot.hear /badger/i

jonathan I don't want to badger anyone

robot.respond /open the pod bay doors/i

nick @Hubot open the pod bay doors

Talking Back

Sending

```
module.exports = (robot) ->  
  robot.hear /badger/i, (res) ->  
    res.send "Badgers? BADGERS? WE DON'T NEED NO STINKIN BADGERS"
```

jonathan I don't want to badger anyone

Hubot Badgers? BADGERS? WE DON'T NEED NO
STINKIN BADGERS"

Replying

```
module.exports = (robot) ->  
  robot.respond (/open the pod bay doors/i, (res) ->  
    res.reply "I'm afraid I can't let you do that.")
```

nick @Hubot open the pod bay dooors

Hubot @nick I'm afraid I can't let you do that.

Capture data

→ What if I want to open a different door?

```
robot.respond /open the (.*) doors/i, (res) ->  
  doorType = res.match[1]  
  if doorType is "pod bay"  
    res.reply "I'm afraid I can't let you do that."  
  else  
    res.reply "Opening #{doorType} doors"
```

Making JSON calls

```
robot.http("https://midnight-train")  
  .header('Accept', 'application/json')  
  .get() (err, res, body) ->  
    # error checking code here  
  
    data = JSON.parse body  
    res.send "#{data.passenger} taking midnight train going #{data.destination}"
```

If I only had a brain...

Hubot's brain

→ Provides in-memory key-value storage `robot.brain`

```
robot.respond /have a soda/i, (res) ->
  sodasHad = robot.brain.get('totalSodas') * 1 or 0
  if sodasHad > 4
    res.reply "I'm too fizzy.."
  else
    res.reply 'Sure!'
    robot.brain.set 'totalSodas', sodasHad+1
robot.respond /sleep it off/i, (res) ->
  robot.brain.set 'totalSodas', 0
  msg.reply 'zzzzz'
```


Some other cool features

- Restricted Access to Commands
 - XML Parsing
- Screen Scraping (cheerio and jsdom)
 - Watch if topic changes
- Know when someone enters or leaves a room

How could *we* use Hubot?

Ideas?

- Deployments
- Phonegap Builds
- Jira Integration?
- Time logging into jira?