# Cloud Based Telephony Applications

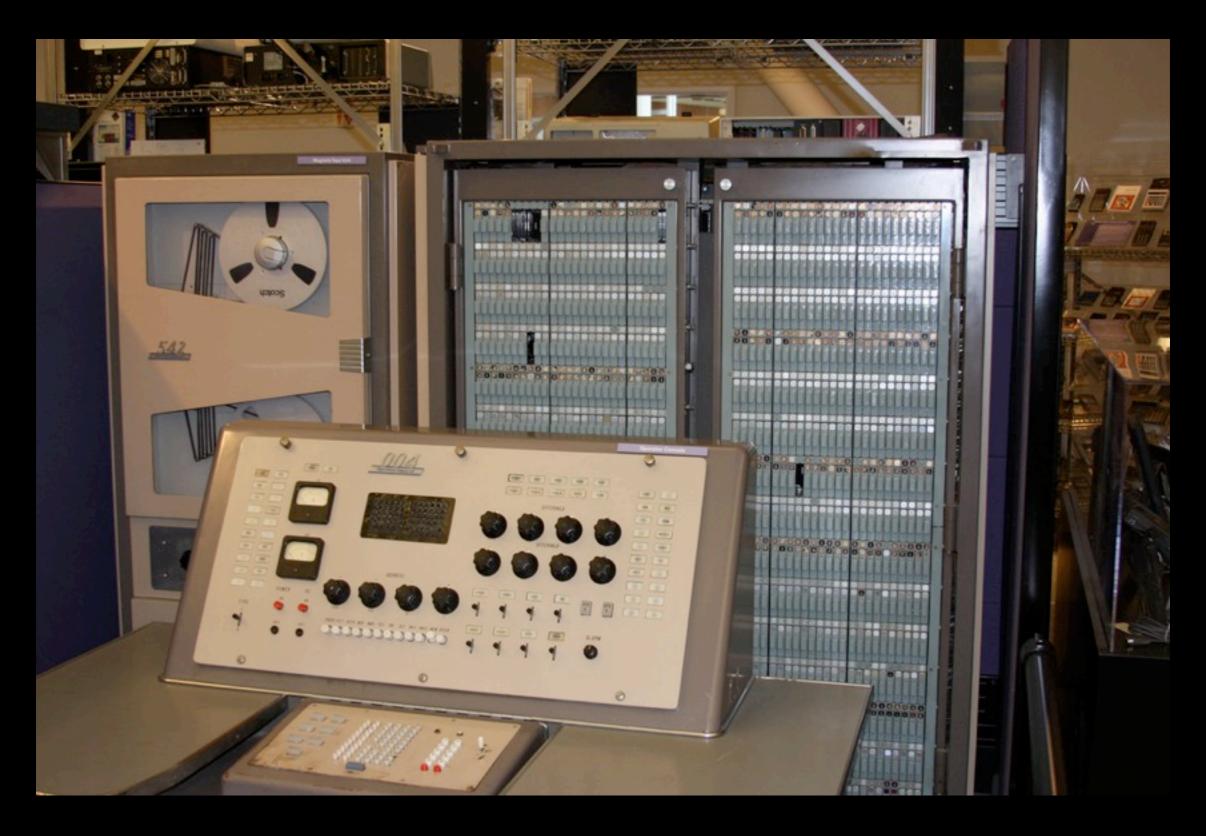
In an instant with Twilio and Heroku

Philly Lambda: April 18th 2011

#### But First!

#### Credit Card Activation

#### IVR Vendor



#### Really Good At:

Being Robust

Handling Lots of Simultaneous Calls

Reporting / Metrics

Did I mention Being Reliable?

Mon: Submit updated Flow

Tue: Not Ready Yet?

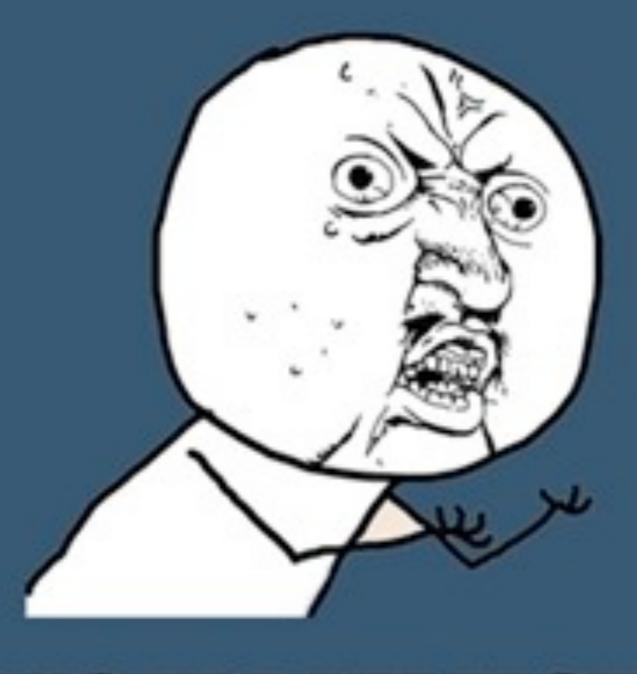
Wed: Ready? Great!

We test it...and want changes

Thu: Submit updated Flow

Fri: Not Ready Yet? Er, my week's over.

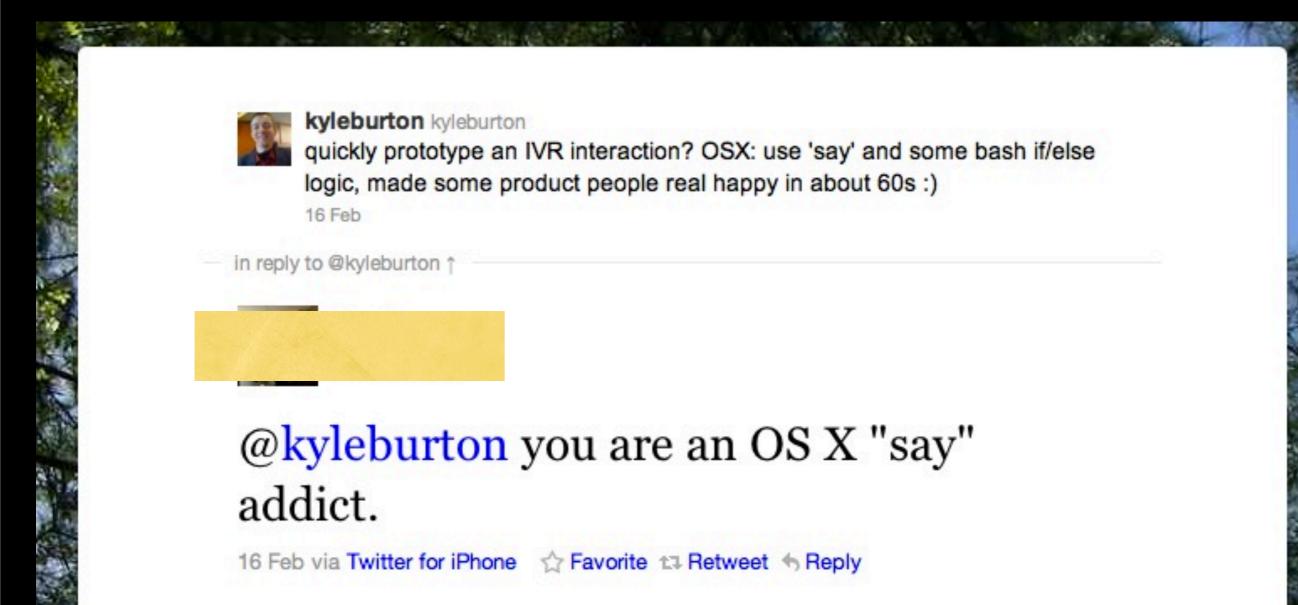
#### VENDOR



#### YUNOUPDATE FASTER!

I Coo ##

```
function voice_prompt () {
 echo " SPEAKING: $1"
 say -v "Vicki" "$1"
function get_user_keypress () {
 KEY=""
 echo -n "Press a Key: "
  read KEY
               I know: I'll use Bash!
 export KEY
echo "Pretending I'm an IVR..."
function say_top_menu () {
 voice_prompt "Press 1 to hear your current balance."
 voice_prompt "Press 2 to make a payment."
 voice_prompt "Press star to hear this menu again."
 voice_prompt "Press 0 to disconnect."
```





I ( ) # 6

### The Services l'm About To Discuss Didn't Exist

5 Vegres Ago

#### Twilo

Cloud Based Telephony

Internet Based API

I couldn't find a reference for when Twilio was founded. (domain registered since 2007)

"In <u>telecommunication</u>, telephony encompasses the general use of equipment to provide voice communication over distances, specifically by connecting <u>telephones</u> to each other"

- Wikipedia

#### Twilo

- Receive Calls
- Initiate Calls
- Conference and Forward
- SMS Send / Receive

#### Wilo

#### Simple HTTP Interface

#### Heroku

Founded in 2007

PaaS

Ruby on Rails

Tons of Add Ons

Awesome: Check

## What Do They Have In Common?

# You can try them...





#### IVR

Activate Your Credit Card

Collect Info Ahead of Customer

Service

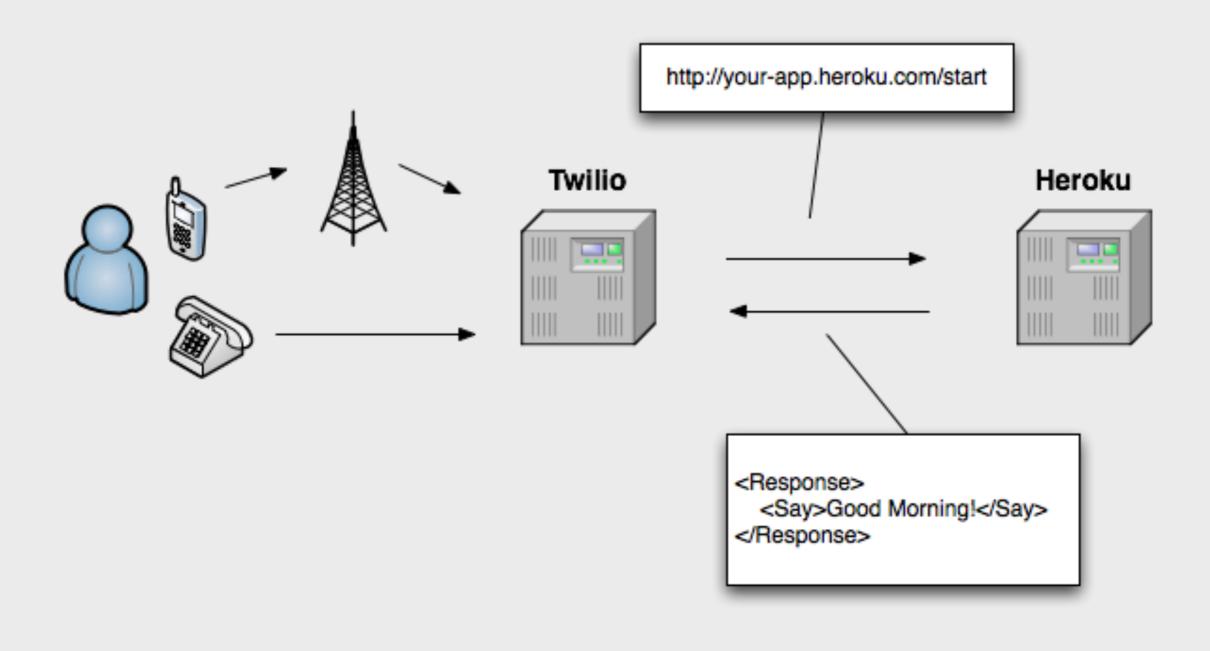
Banking by Phone

Snow Day Hotline / Robo Caller RSVP Service

Reminder Service

Two Factor Authentication





## Life Cycle

User Calls

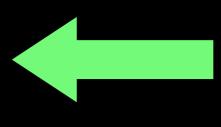




Press I



"Click"

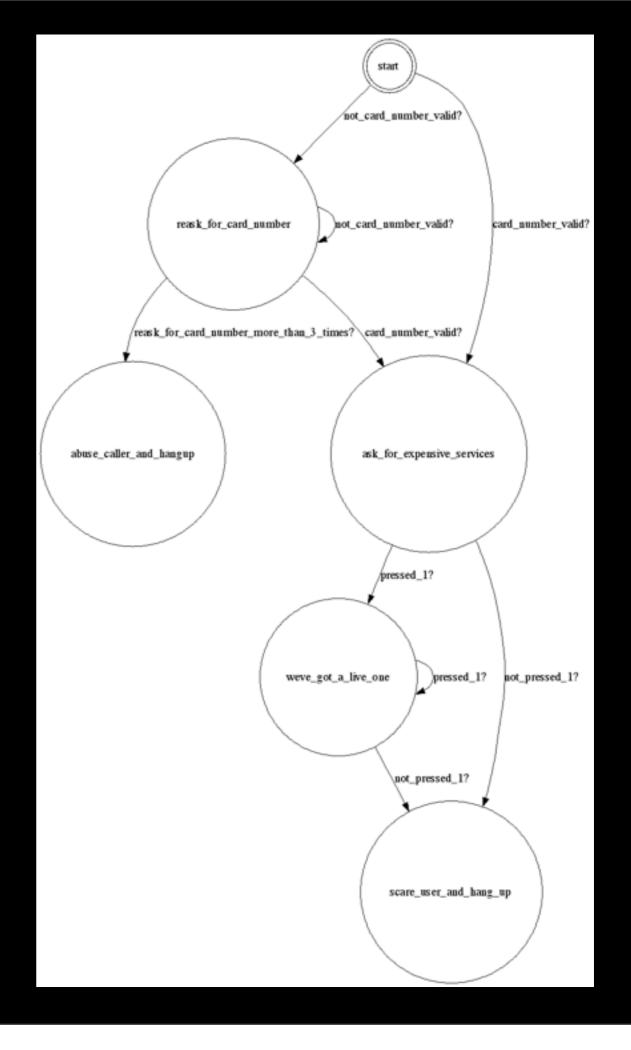


<Say>Bye</Say>

<Hangup/>

I modeled the IVR as a state machine.

See also: Newflow



#### Show Some Code and The App



#### kyleburton kyleburton

this is for you [ivr]: https://gist.github.com/833002 (does this redeem my geek cred from the bash/say script?:)

17 Feb

in reply to @kyleburton 1



#### @kyleburton oooooo much prettier! You have purged yourself of TeH sh fuglies

17 Feb via Twitter for iPhone 🏠 Favorite 🖈 Retweet 🦘 Reply



Call: (610) 915-8524

Go to: http://warm-wind-609.heroku.com/

#### Thank You

@kyleburton

github.com/kyleburton/twilio-in-ten-minutes

twilio.com

heroku.com

see image-credits.textile for Image Credits