

Sydewynder



sydewynder

What is Sydewynder?

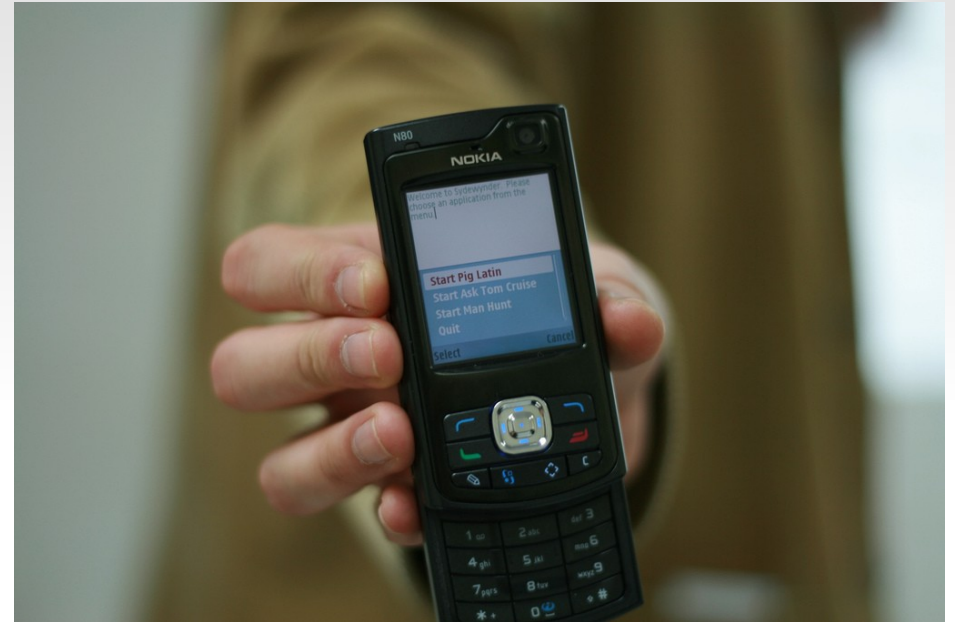
- a poorly spelled snake?

What is Sydewynder?

- a poorly spelled snake?
- Nope

What is Sydewynder?

- a poorly spelled snake?
- Nope
- It's a mobile SMS gateway application



Which is what, exactly?

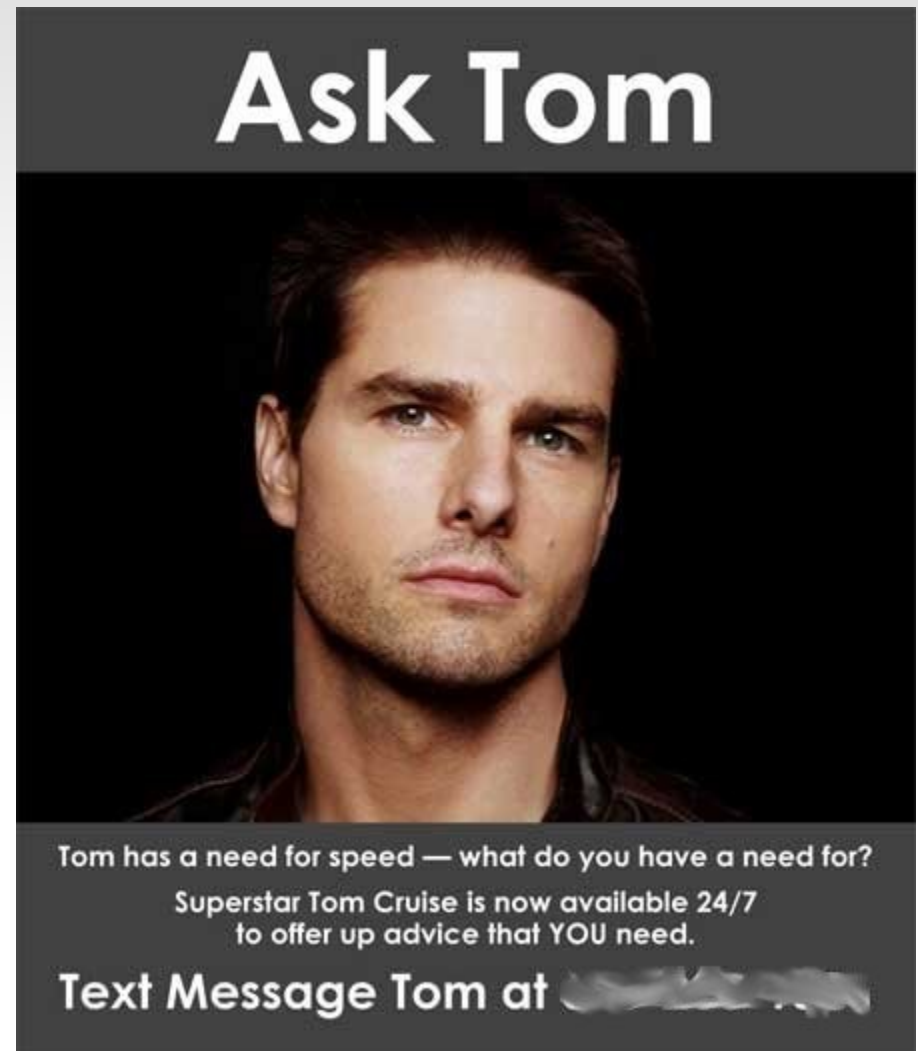
- Sydewynder lets you write applications that
 - receive text messages
 - process the text
 - create a response
 - send text messages to anyone else in response

So, for example

- Pig Latin
 - receive a text
 - convert it to Pig Latin
 - send it back!

So, for example

- Ask Tom
 - presented for the 10 Years Running Show
 - with Paul Notzold
 - receive a question from the audience (and log it)
 - send back a randomized (or is it?!) message from "Tom"



Ask Tom

Tom has a need for speed — what do you have a need for?
Superstar Tom Cruise is now available 24/7
to offer up advice that YOU need.

Text Message Tom at [redacted]

So, for example

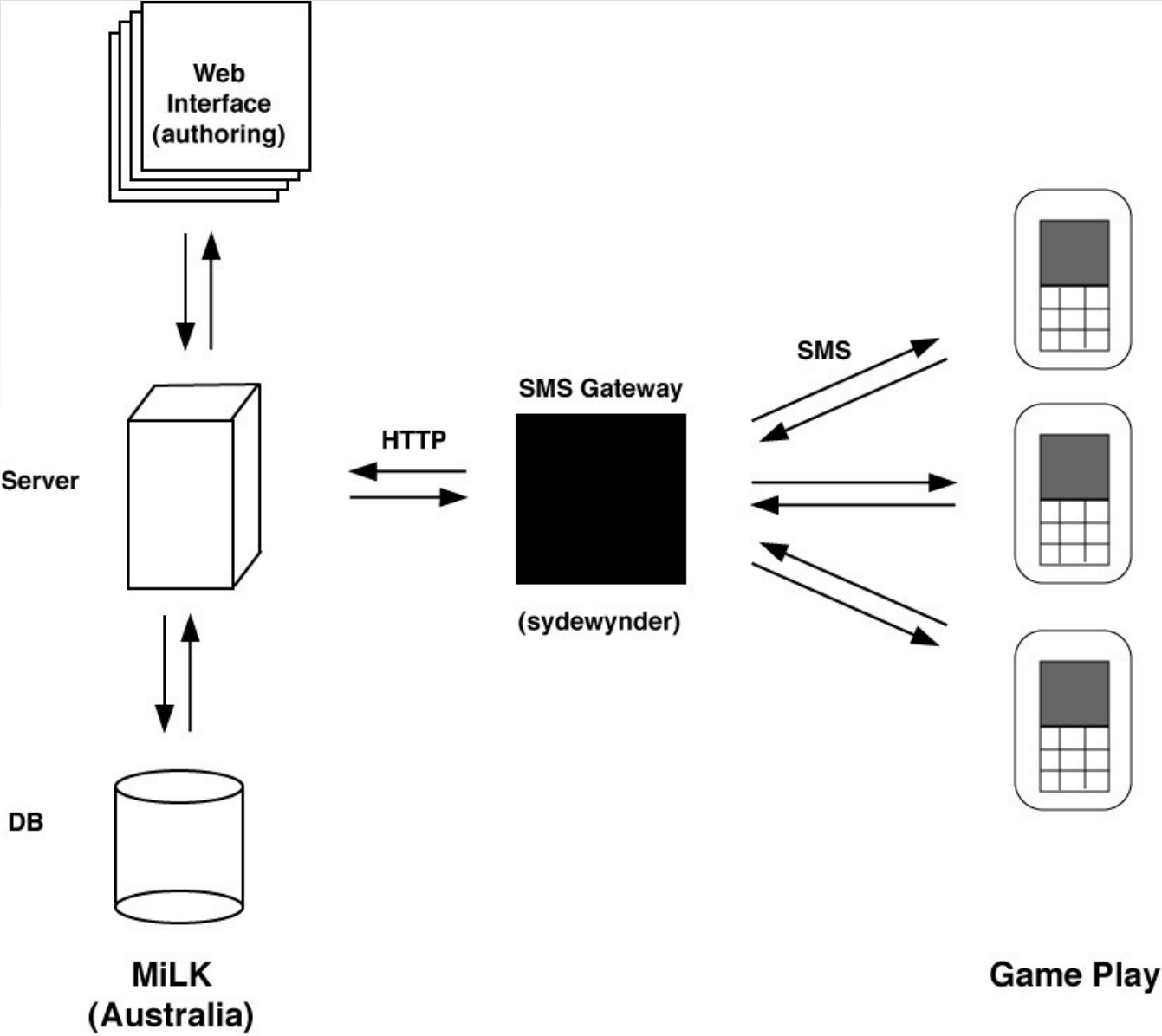
- We Feel Fine
 - user texts an emotion word to the phone
 - phone reaches out over WiFi
 - contacts "wefeelfine.org" and gets a blog post with that emotion word
 - returns that post, in short form, to the user



MiLK

- Albert Dang and Chloe Varelidi
- Institute of Play
- hacks a cool but too expensive mobile games system
- uses Web and Sydewynder mix to prototype mobile games for kids

MiLK



MTA Texting

- Chuck Yust
- allows riders to text in their train line
- and see when the next one arrives
- BEFORE getting stuck in the station

Mobile Health Assistant

- Eric Nunez
- using Twitter and Sydewynder to prototype
- building a full-scale app for developing countries
- for people to access health information over SMS

Combines

- Python
- SMS
- Rapid Prototyping

Python

- Python for S60
- Nokia phones like N80 and N95

Emulator

- Write scripts on your local machine
- Run them from the terminal
- They work like they would work on your phone
- Then upload them to an S60 phone (e.g. Nokia N80)
- Works!

Emulator

```
edwards@incubus:~/workspace/Sydewynder$ python wefeelfine.py
EMULATOR: This application is running off an emulator.
EMULATOR: This is not sending or receiving real SMS messages.

STATUS: We Feel Fine started
CELL PHONE: Enter your cell number [or type 'quit']: █
```


Emulator

```
edwards@incubus:~/workspace/Sydewynder$ python wefeelfine.py
EMULATOR: This application is running off an emulator.
EMULATOR: This is not sending or receiving real SMS messages.

STATUS: We Feel Fine started
CELL PHONE: Enter your cell number [or type 'quit']: 13475551212
CELL PHONE: Enter message: nervous█
```

Emulator

```
edwards@incubus:~/workspace/Sydewynder$ python wefeelfine.py
EMULATOR: This application is running off an emulator.
EMULATOR: This is not sending or receiving real SMS messages.

STATUS: We Feel Fine started
CELL PHONE: Enter your cell number [or type 'quit']: 13475551212
CELL PHONE: Enter message: nervous

SYDEWYNDER: Message received...

SYDEWYNDER: Responding...

LOG: Read data from http://api.wefeelfine.org:8080/ShowFeelings?display=text&ret
urnfields=sentence&feeling=nervous&limit=1

LOG: Responded to msg #xxxxxx at xxxxxx. Sent to 13475551212.

EMULATOR: These recipients:
13475551212

EMULATOR: Received this message:
i licked my lips feeling strangely nervous its okay <b

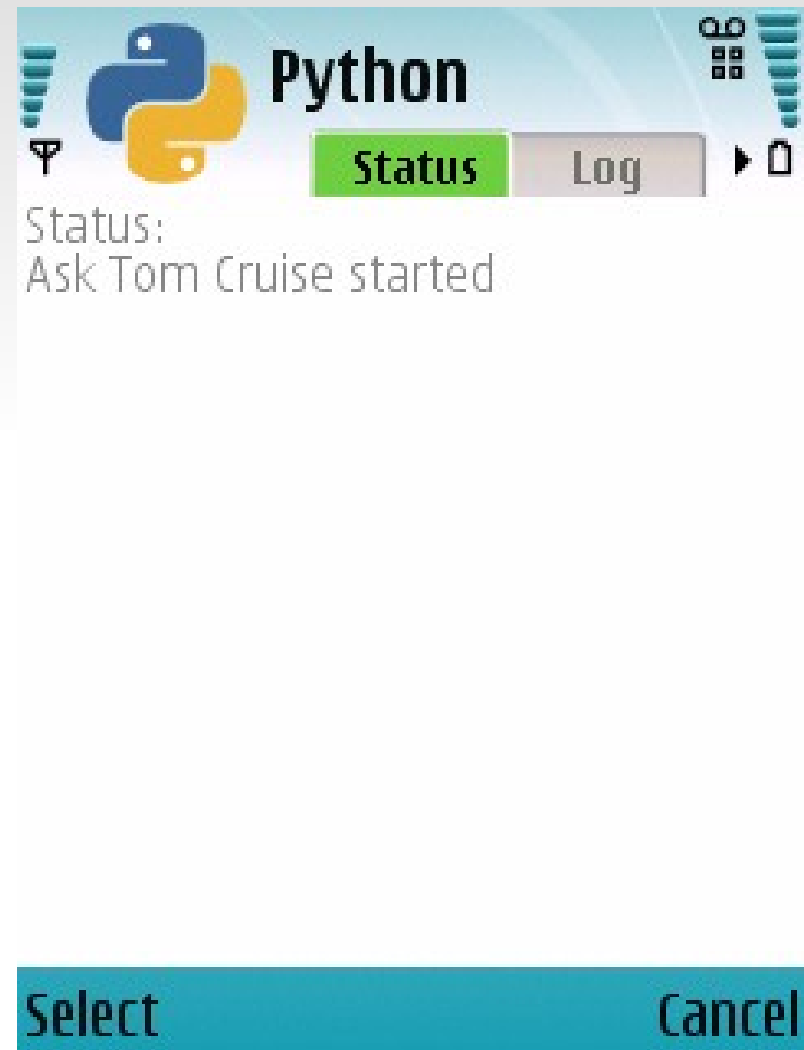
CELL PHONE: Enter your cell number [or type 'quit']: █
```

On Phone

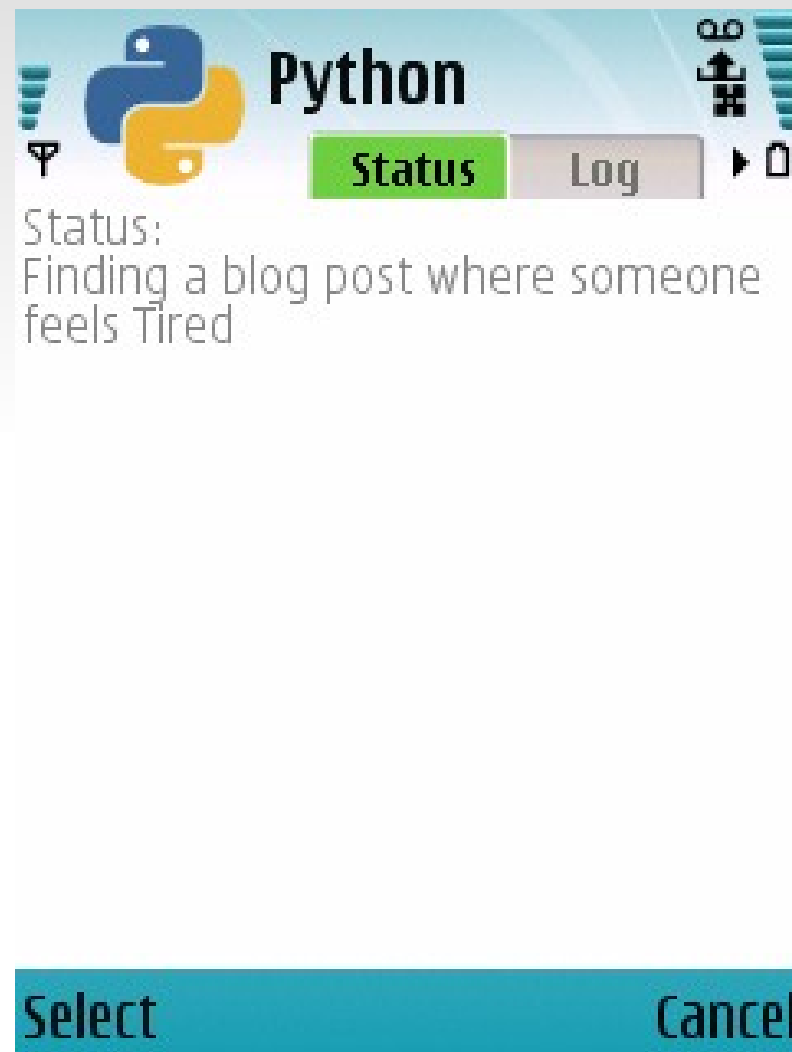
- Start up Sydewynder
 - go into Python
 - run script

On Phone

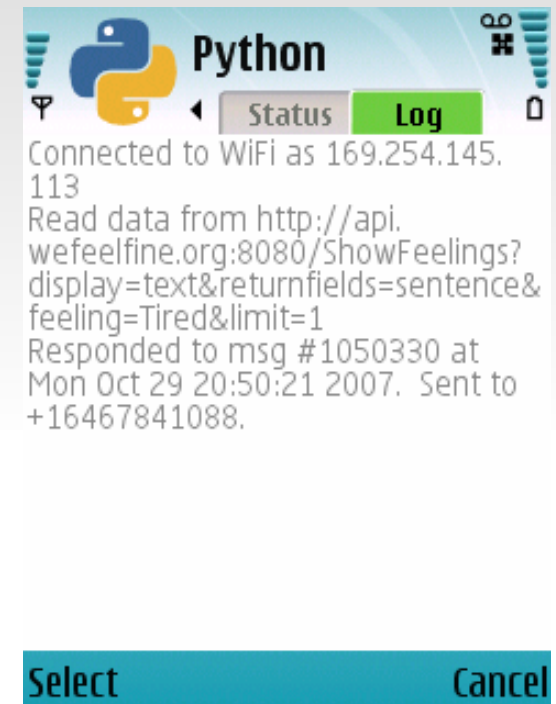
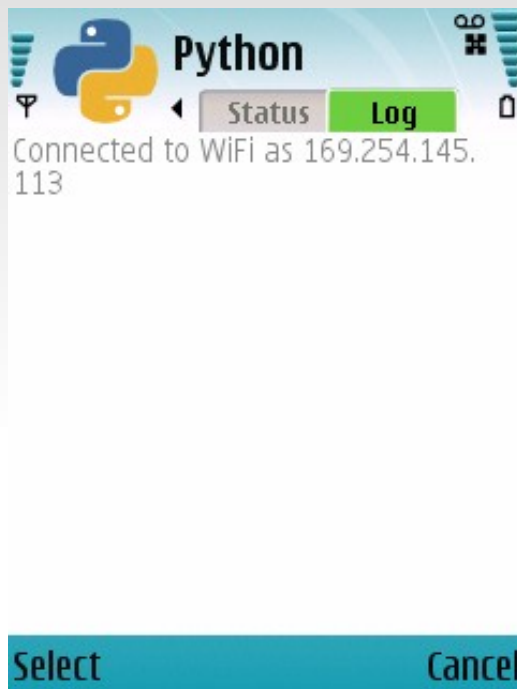
- Start the application



And Sydewynder Runs



And Runs And Runs...



Relax!

- Have a cup of tea!
- Sydewynder works like a server, so just let it run until you are ready to stop it



How To Get It

- You can find Sydewynder here:
 - <http://sourceforge.net/projects/sydewynder>
 - <http://a.parsons.edu/~medwards/?q=parsons/ra/sydewynder>