Sydewynder
What is Sydewynder?

- a poorly spelled snake?
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- 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"
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
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

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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
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&returnfields=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

Status:
Finding a blog post where someone feels Tired
And Runs And Runs...

Connected to WiFi as 169.254.145.113

Connected to WiFi as 169.254.145.113
Read data from http://api.wefeelfine.org:8080/ShowFeelings?display=text&returnfields=sentence&feeling=Tired&limit=1

Connected to WiFi as 169.254.145.113
Read data from http://api.wefeelfine.org:8080/ShowFeelings?display=text&returnfields=sentence&feeling=Tired&limit=1
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