## My background

```
Microsoft QuickBASIC
                                                                               _ @ X
        [ 15 🖎 정 🗗 A ]
                                   Debug
                     Search
                                          Options
                                  POLSCALO, BAS
REM POLSCAL2.BAS creates polar dial hour lines.
REM Mac Oglesby 990709
 filename$ = "C:\POLSCAL2.txt"
OPEN filename$ FOR OUTPUT AS #1
D2R = 3.141593 / 180
FOR J = 0 TO 67.5 STEP 1.25
X = H * TAN(J * D2R)
  = 4: M = J * 12
IF M / 45 = INT(M / 45) THEN L = 8
IF M / 90 = INT(M / 90) THEN L = 12
IF M / 180 = INT(M / 180) THEN L = 20
WRITE #1, 1, X, 0
WRITE #1, 2, X, L
NEXT J
WRITE #1, 1, 0, 0
WRITE #1, 2, X, 0
X1 = X + 10 + 76.2
                                    Immediate
<Shift+F1=Help> <F6=Window> <F2=Subs> <F5=Run> <F8=Step>
                                                                         00015:006
```

http://www.mysundial.ca/tsp/images/qbasic\_program.gif

# My background





← →	http://refzap.appspot.com/	
RefZap!		
Enter r	reference: Nature 311 555 Go!	

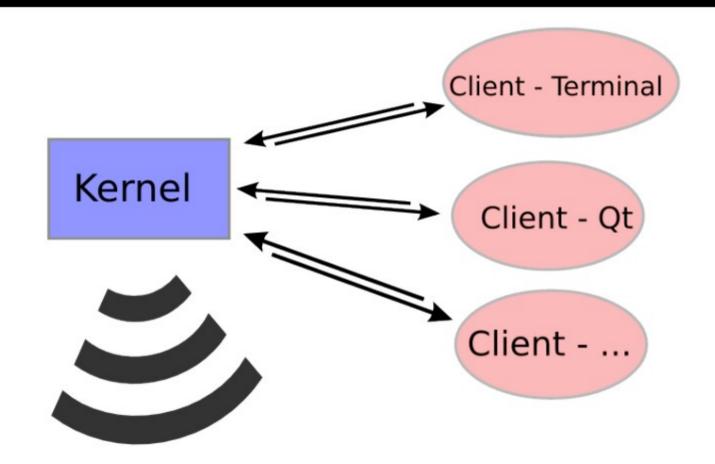


### Why IPython?

- obj.[tab], obj?, obj??
- files = !ls, !wget \$url
- Magic commands:
  - %run script.py (-p → profile, -t → time)
  - %debug (jump in *after* an exception)
  - %save cmds.py 1-7 42 51
  - %Ismagic (see the rest)

### History

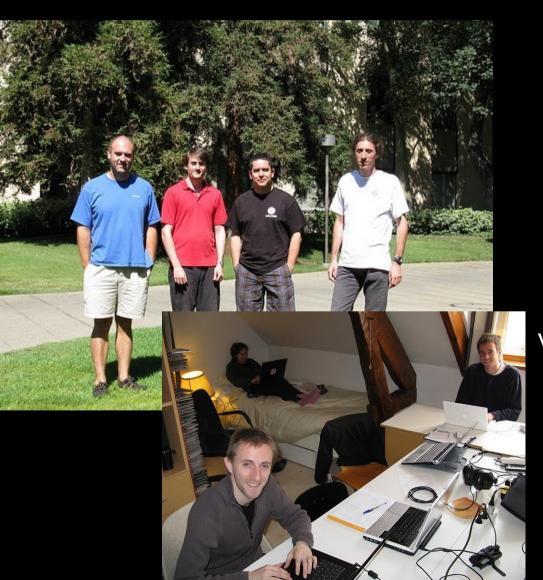
- 2001: IPython 0.0.1
  - 259 lines, vs. over 100k now
- 2004: First parallel computing tools
- 2008: WX IPython interfaces
- 2010: ØMQ
  - + Python 3 port



Client: monitor email, publish, ...

#### Demos

# Fernando Perez Brian Granger Min Ragan-Kelley



Evan Patterson – Caltech/Enthought
Robert Kern – Enthought
Jörgen Stenarson – Sweden
Ondrej Certik – U. Nevada Reno
Darren Dale – Cornell
Laurent Dufréchou – France

James Gao – UC Berkeley

Satra Ghosh - MIT Neuroscience

John Hunter – TradeLink Securities, Chicago

Paul Ivanov – UC Berkeley

Prabhu Ramachandran – IIT Bombay

Justin Riley – MIT

Thomas Spura – Fedora project

Ville Vainio – Tampere University of Technology, Finland

Stefan van der Walt – U. Stellenbosch, South Africa

Gaël Varoquaux – Neurospin (Orsay, France)

Mark Voorhies – UC San Francisco

Many more...

