

Python and more



Administration

- Check the wiki daily; please contribute
 - <http://money.lcs.mit.edu>
- Pick partners and tell me
 - pairs and triplets



Connecting to ipaq

- Serial cable (not usb)
 - after boot, can just login via some terminal program (minicom/hyperterm)
- ssh over the network
 - setup wireless connection to network
 - ‘ssh -l root 18.24.6.xxx’ into the ipaq
 - need ip address (do not need dns name)
 - make sure you are connecting to YOUR ipaq. Easy to mistype ip address.
 - any issues connecting on campus (MIT or NUS)?





Installing software

- `/etc/ipkg.conf` points to “feeds”
 - we will maintain our own feed
 - ipkg picks first matching file, not last while searching list of feeds
- Copy files to ipaq via
 - secure copy
 - `“scp localFile.py root@ipaqip:/usr/bin/”`
 - serial cable
 - xmodem/ymodem, sx on linux





Is your ipaq, your ipaq?

- Anonymous vs Personal handheld
 - Telephone example
 - Landline telephones are anonymous
 - Cell/Mobile phones are personal
- Tradeoffs
 - private state
 - can be lost or stolen; should be protected
 - setup overhead on user
 - daily underhead on user -- setup once and forget
 - less dependent on connectivity
 - public/private keys easy to use once setup



Our own basic infrastructure



- Initialization
- Network
 - Static IP, DNS server -- why IPv6 and why not
 - DHCP: get ip and dns server -- vast improvement
- Servers
 - Feed, chat, device, anything new
 - too many servers & must always be up
- What will naive user do?





Let's design it right

- What do we want?
 - Should just work without setup
- Observation
 - most interaction is local
 - remote interaction is rare
 - overhead for rare cases is ok
- How to setup/find a chat server without a fixed name or ip address?
 - Interactive class discussion





Python overview

Borrow from the web



Online Tutorials



- Tutorials
 - <http://www.python.org/doc/tut/tut.html>
 - <http://diveintopython.org/>
 - http://www.intelinfo.com/newly_researched_free_training/Python.html
- use google or go to python.org

