

Bash Your Macs Up...

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MacSysAdmin 2010 Bingo

Whistle-stop tour in 75 minutes!

- Scripting Overview
- Using the environment
- Building what you need using all the tools at your disposal
- Services & Automator

Overview

- Applescript
- Shell (sh, tcsh, zsh, bash, ksh)
- Perl
- Python
- Ruby
- tcl
- php
- expect

Picking a Language

- Does it do what you need?
- Do you know it?
- Will it work where you need it?
- Is it the best choice?

Scripting is not...

- Not a “hack” job
- Not a SysAdmin replacement
- Not always faster than a compiled application... but...

Where to Start?

Get a Problem

- Hard to do anything without a purpose
- Find a real problem
- Make sure it's useful...

Get a Script

- AppleScript or Shell?
- Leave the big guns at home until you're comfortable

Get The Tools

- Script Editor
 - AppleScript Editor
 - Xcode
 - vi, emacs, pico
 - Text Edit
 - BBEdit
 - Sub Etha Edit

Get Hunting

- Write some code
- Google for an example
- Tweak your code
- Write more code
- Google more code
- Tweak some more...

She Sells C Shells...

Shell Scripting

- Built-in to OS X
- One of the oldest forms of scripting
- Lots of samples, examples and knowledge already out there
- Quick and easy to get something up and running

Shell Disadvantages

- No GUI
- Interactive shell is hard to script
- Not all shells are created equal

Diving into the Deep
End...

Become an Environmentalist

- env
- bashrc & profile
- ~/.MacOSX/environment.plist
- Michael Safyan - building the environment.plist from bashrc
 - <http://bit.ly/cUTTJS>

Onto Some Basics

- top
- tail
- grep
- |
- ps
- du
- df
- reboot
- shutdown
- chmod
- chown
- hostname
- file
- sw_vers
- diskutil
- hostinfo
- installer
- history
- sudo
- system_profiler
- plutil
- pbcopy/pbpaste
- open
- Using `ctl+R`

Build it and they shall come...

- Stringing multiple commands together for more power
- Use everything in your toolbox

```
cat production.xml  
| grep 'Keywords'  
| awk 'NR==2'  
| sed -e "s/^\</mdValue\>//g"  
| sed -e "s/^\<mdValue fieldName  
\="Keywords\" dataType\="string  
\" \>//g"
```

Services & Automator
For You and Your Users

www.macosexautomation.com

Have fun...

- man languagesetup
- man lsm
- say

Credit where credit's due

- @bynkii - John C. Welch
- @pmbuko - Peter Bukowinski
- @kilbo - Chris Kilbourn
- @marczak - Ed Marczak
- @macshome - Josh Wissenbaker



Just for Charles...

