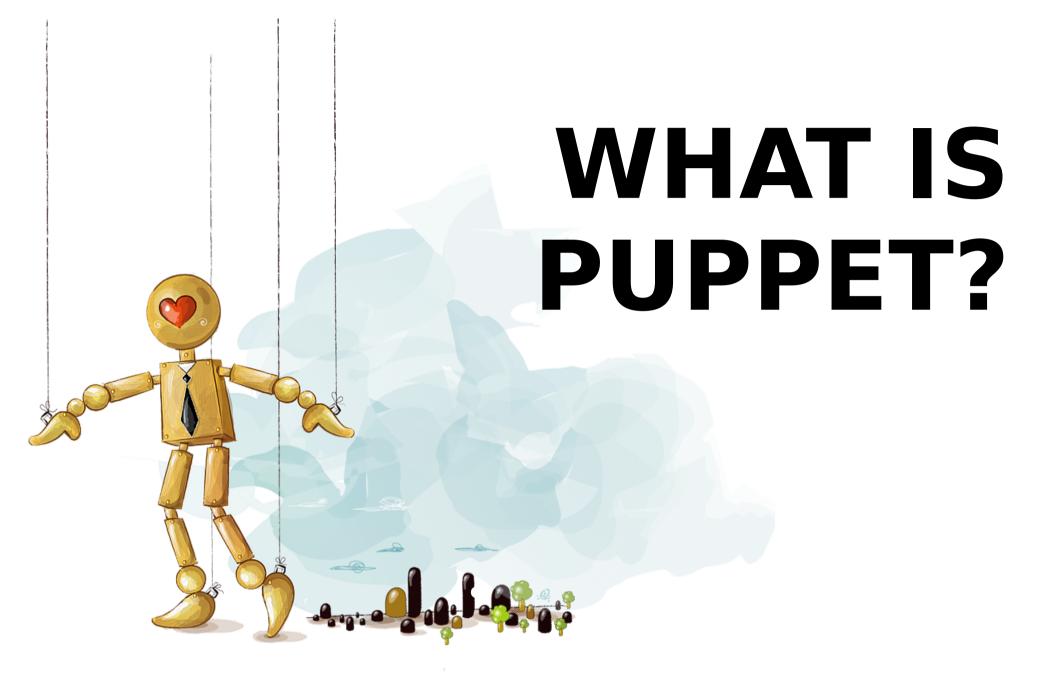
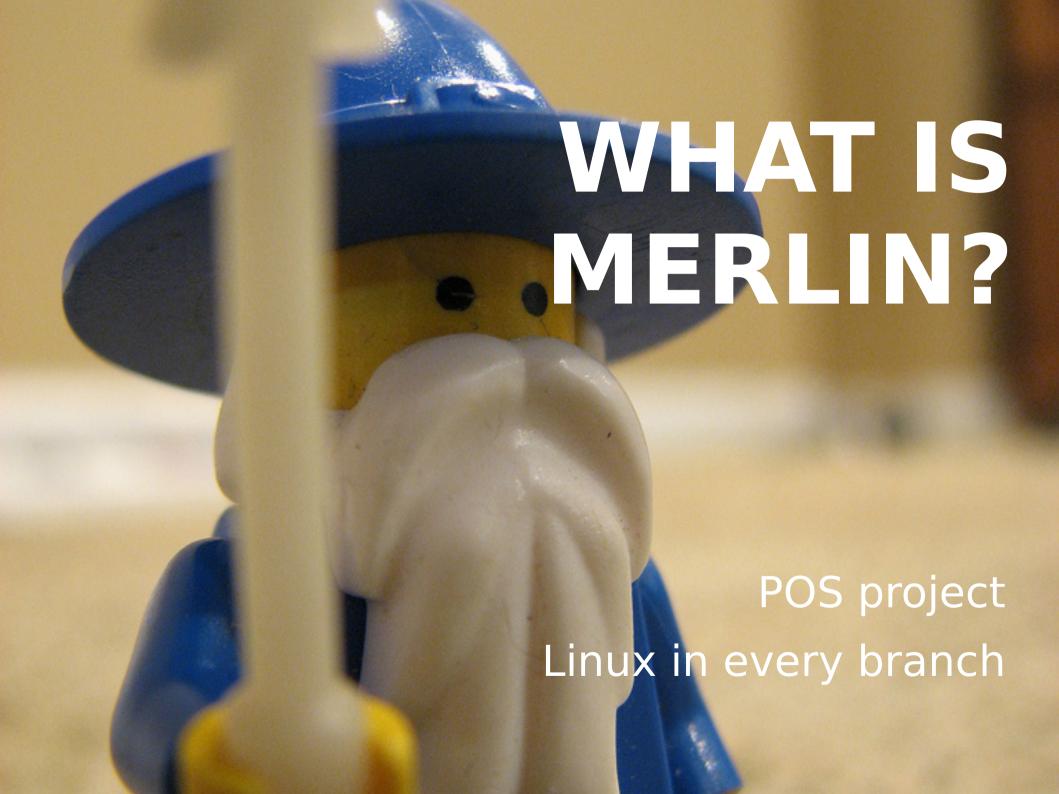
## Puppetising \$client

Lindsay Holmwood < lindsay@holmwood.id.au >



language => client/server => library





## IN THE BEGINNING...

## IN THE BEGINNING...

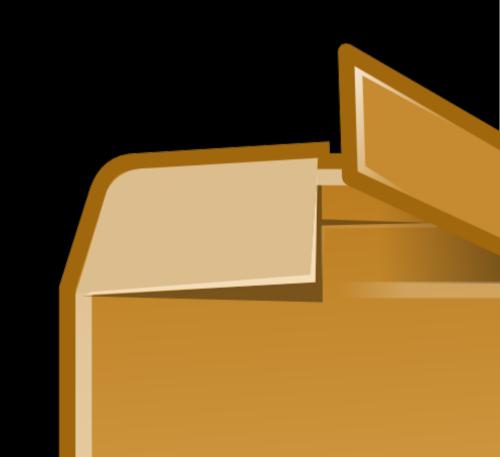
2004

FC3 + kickstart

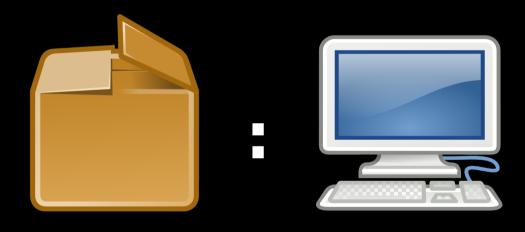
"config" packages

# "config" packages

desktop apps daemons system



#### 3 PROBLEMS



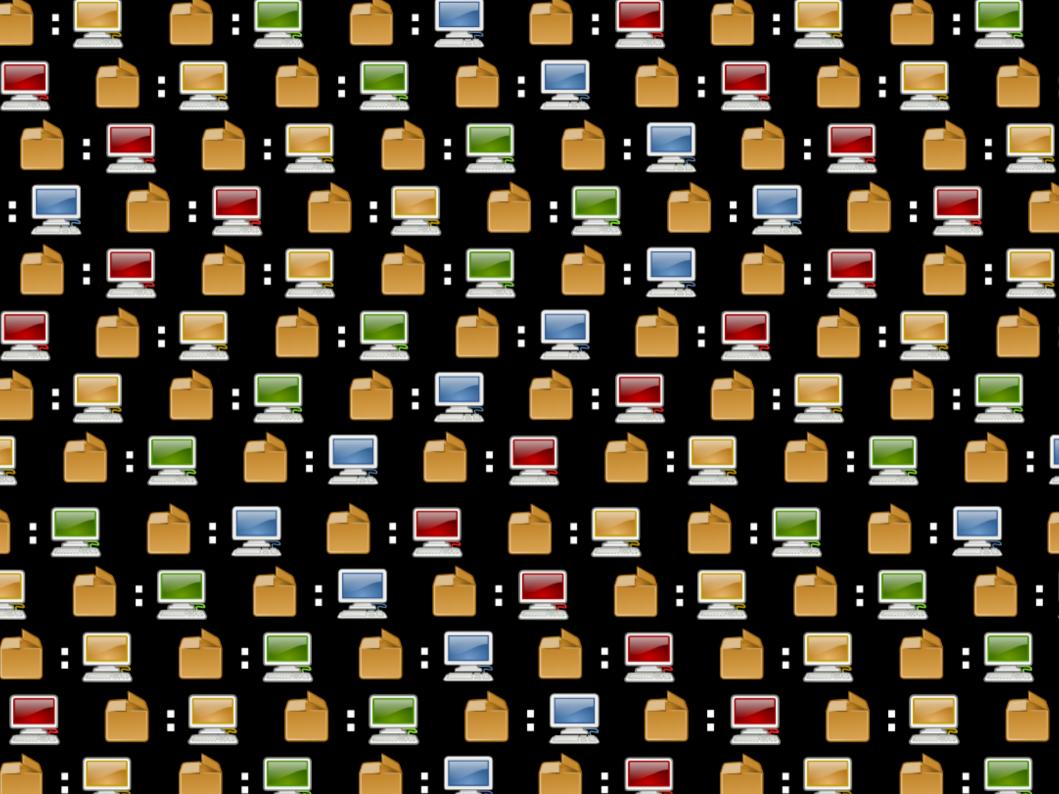
#### multiplying hardware



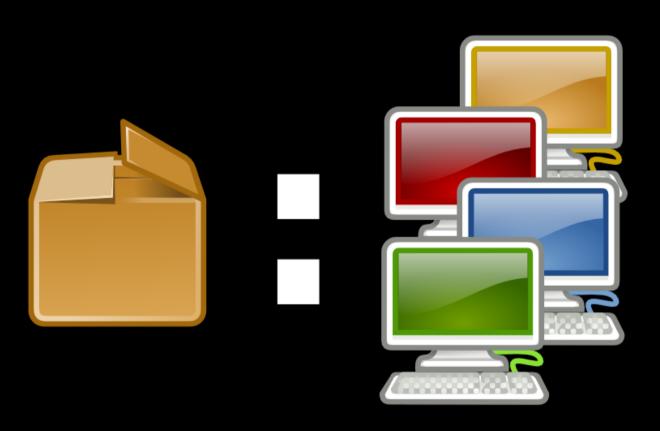








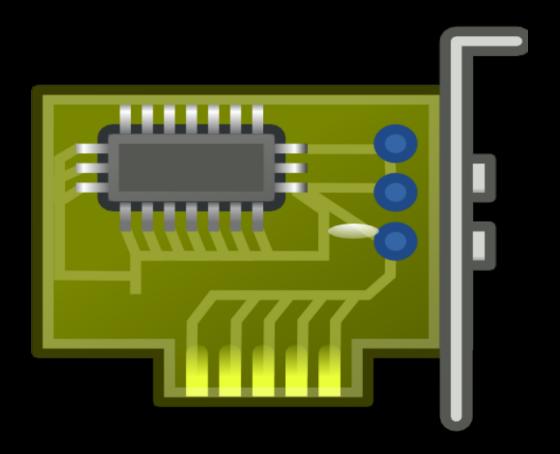
#### SHARED CONFIG







#### workload x3



the IBM lucky dip

#### QUICK FIXES

#### MODIFY KICKSTART

clone FC3 kickstart
monkey patch to perfection



#### BASTARDISE KICKSTART

not reproducible eventually abandoned



## BUILD NEW PREP PROCESS

## UPGRADE + PUPETISED SOE

# VERSION CONTROL EVERYTHING







## SETUP BOOT ENVIRONMENT

PXE kickstart

apache

## ITERATIVE DEVELOPMENT

yum repos system tools apache, samba, cups, ldap, ...

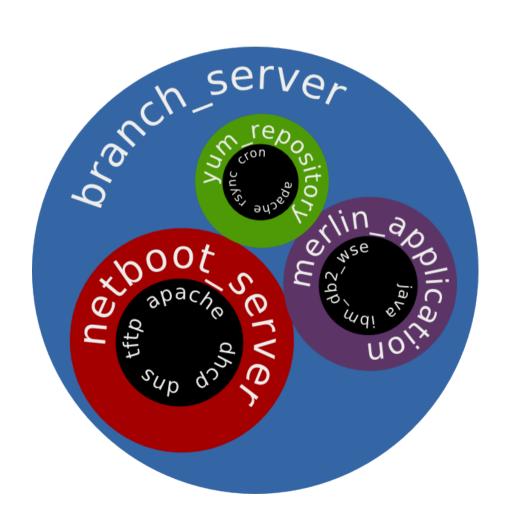
## ITERATIVE DEVELOPMENT

yum repos

system tools

apache, samba, cups, ldap, bind, dhcp, jabber, db2, pam, ssh, tftp, xorg, gnome

#### **OO for SYSADMINS**





### RESULTS?

#### RESULTS

basic: 2 weeks

bugs: 1 week

flawless deployment happy side effects



### HAPPY SIDE EFFECTS

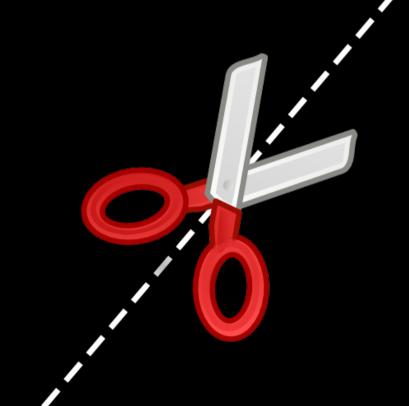
rapid development reusable infrastructure hardware auditing versionable config



## RAPID DEVELOPMENT

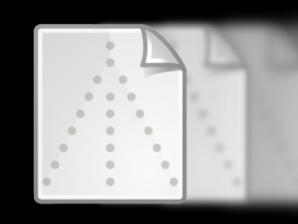
### EXTREMELY RAPID DEVELOPMENT

cut development time reduce, reuse recycle example: front counter



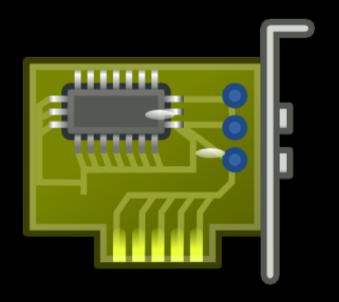
#### CODE REUSE

Don't Repeat Yourself repeat ROI shared improvements example: kenphp



## HARDWARE AUDITING

get the facts know where you stand example: xorg config



## THE SAFETY NET

"point of no return"
multiple collaborators
example:

# QUIRKS + CHALLENGES

prep order proprietary applications vcs discipline



#### PREP ORDER

many Puppet runs tagging



# PROPRIETARY APPS

DB2 hell java printing



### VCS DISCIPLINE

support != programmers