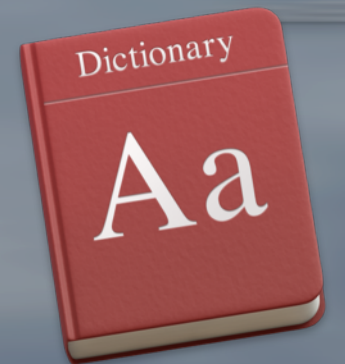


Automation

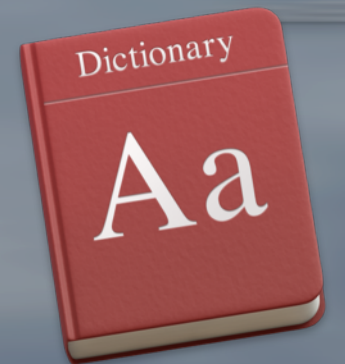
Automation:



the use of largely
automatic equipment in a
system of manufacturing
or other production
process



Automation:



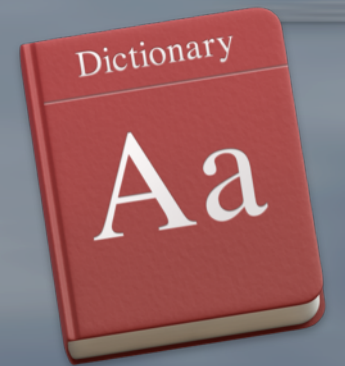
the use of largely **automatic** equipment
in a system of manufacturing or other
production **process**

ORIGIN

1940s (originally US): irregular
formation from automatic + -ation.



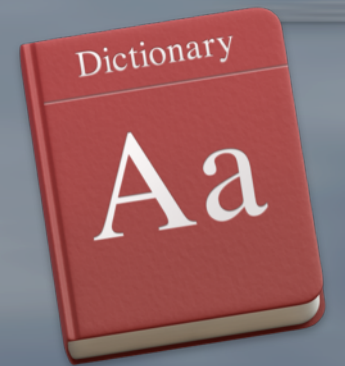
Automagically:



(especially in relation to the
operation of a **computer process**)
automatically and in a way that
seems ingenious, inexplicable, or
magical



Automagically:



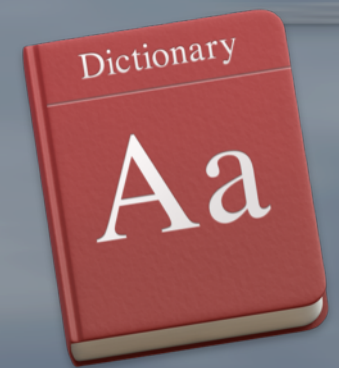
(especially in relation to the operation of a **computer process**) **automatically** and in a way that seems ingenious, inexplicable, or **magical**

ORIGIN

1940s: blend of automatic and magically.



Dork out:



Use over time for: Automatic



Use over time for: Automagically



-Google



Sal Soghoian:



- Product Manager for Automation Technologies @ Apple Inc.
(godfather of Automation)



Sal Soghoian:



- "...automation can give you the speed, the accuracy, the consistent output, and the scalability that you need when you're dealing with solutions."

-WWDC 2015



Marc Grayson:



- Product Manager of Apple Support and Development Team @ Montefiore Medical Center



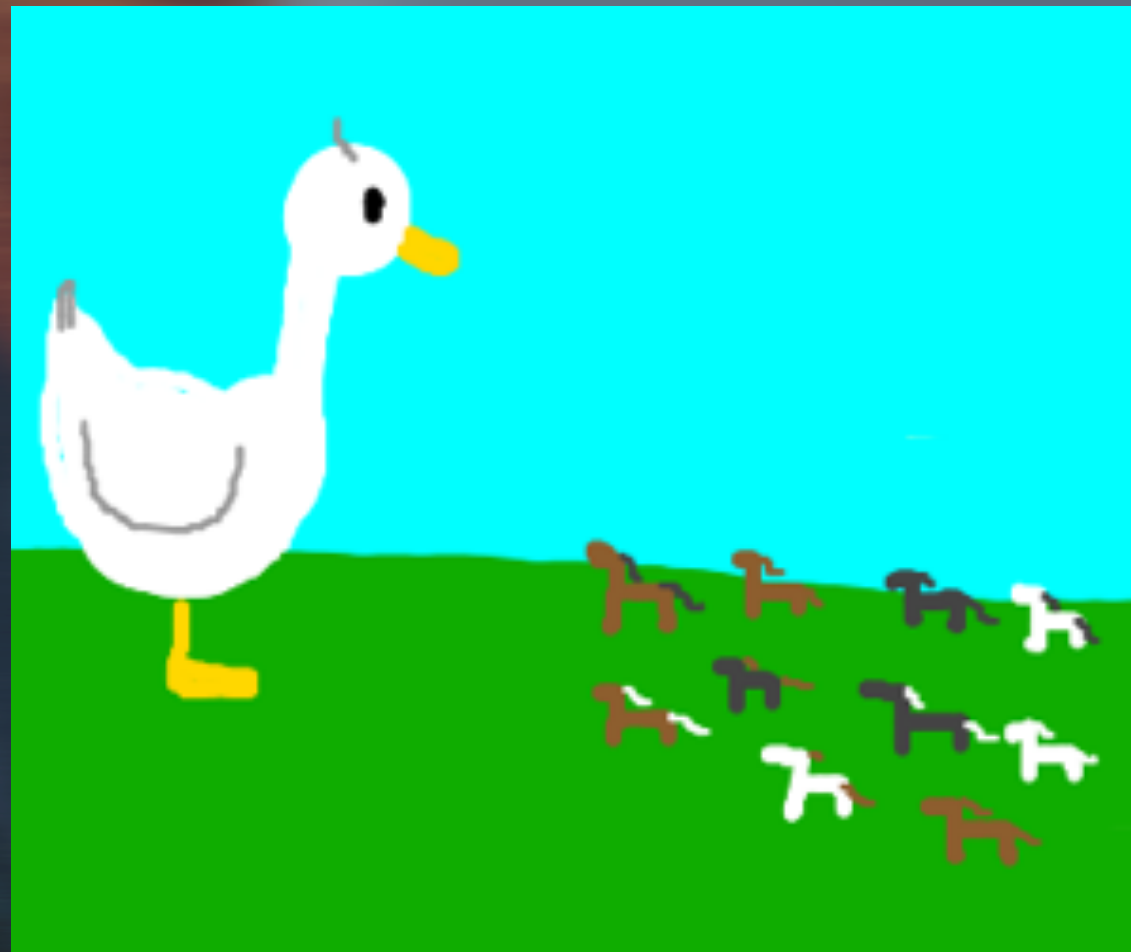
Marc Grayson:



- “If you have to do it more than once try to automate it.”

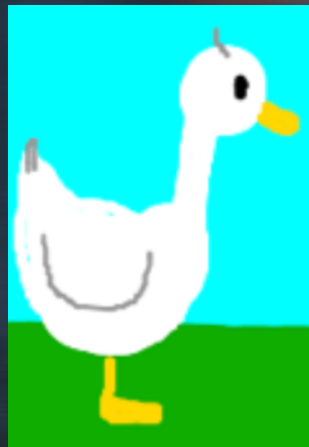


Economy of Scale:



Economy of Scale:

- Migrate a set of OD users to AD.

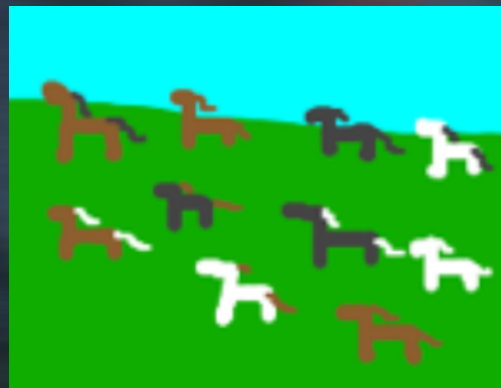


Duck ~~Automate~~ size Horse



Economy of Scale:

- Re-image iPads for a classroom each period.

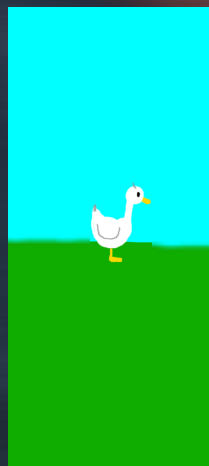


Duck+size+Horses



Economy of Scale:

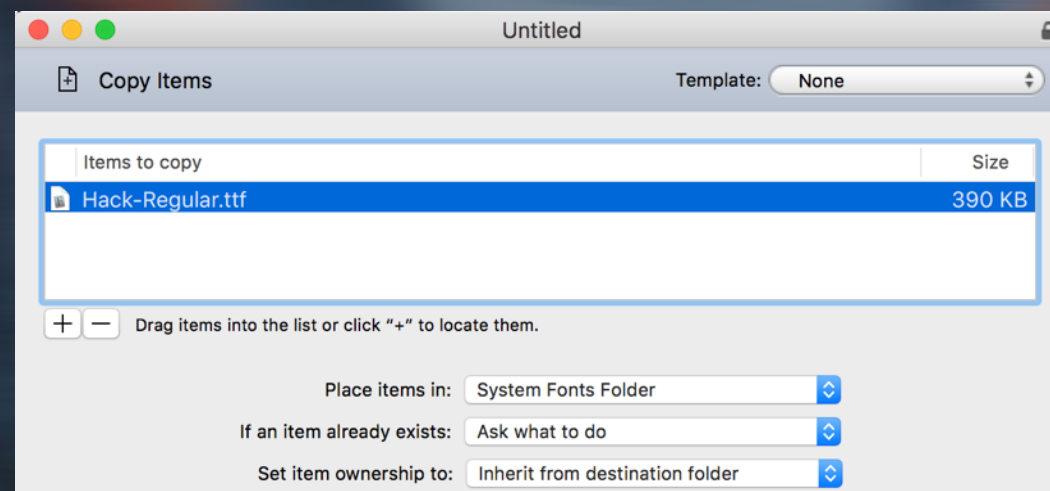
- Install the **Hack F0nt** for that **one** Developer that will not leave you alone.



Manualy



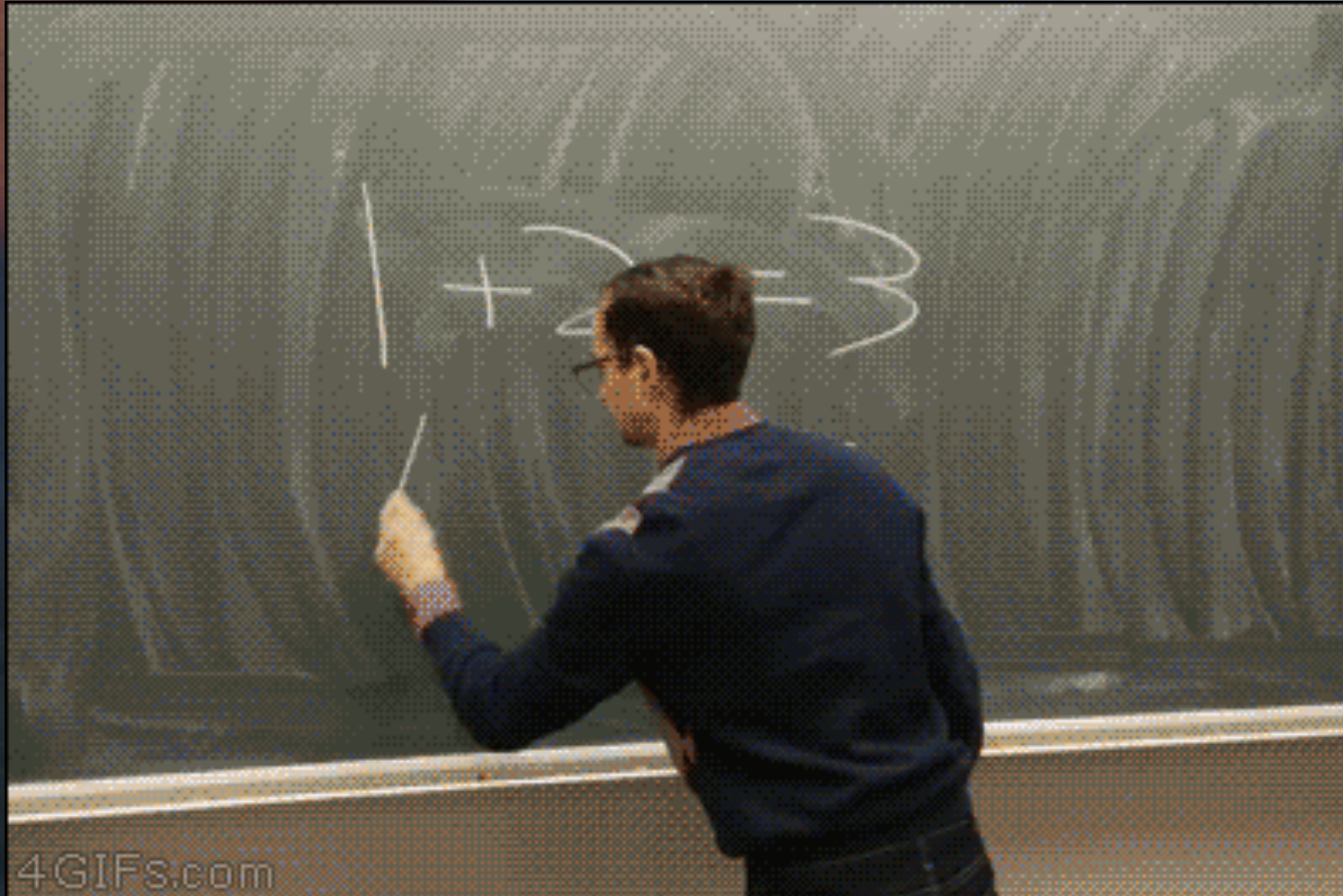
Economy of Scale:



Existing Workflow



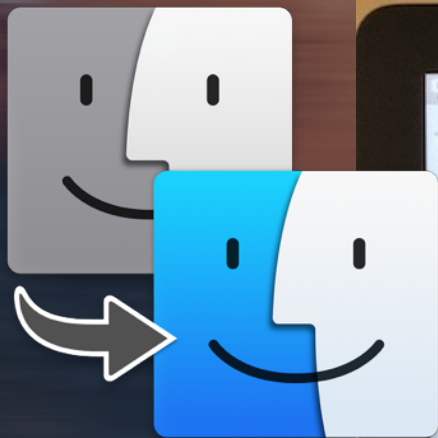
Tools:



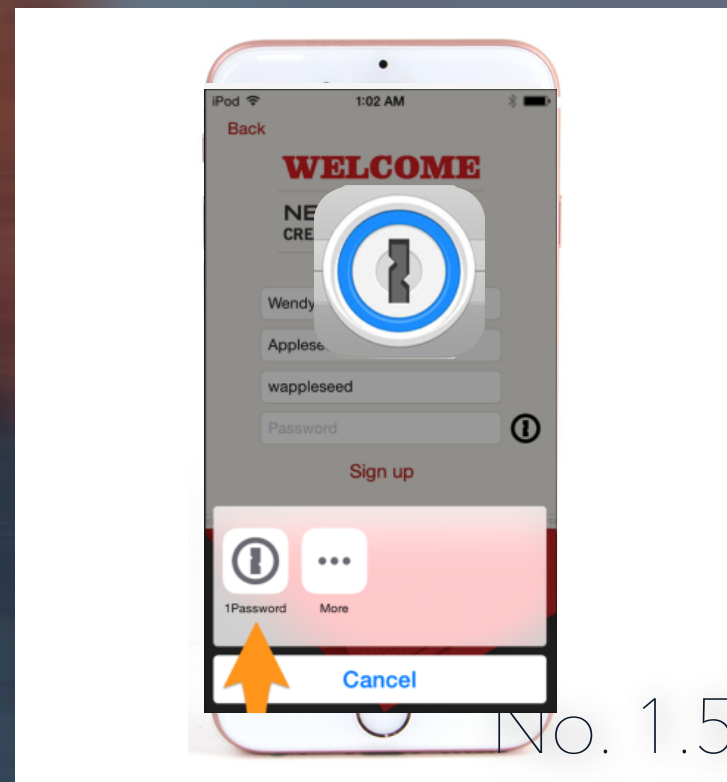
Simple \rightarrow Complex



Tools:



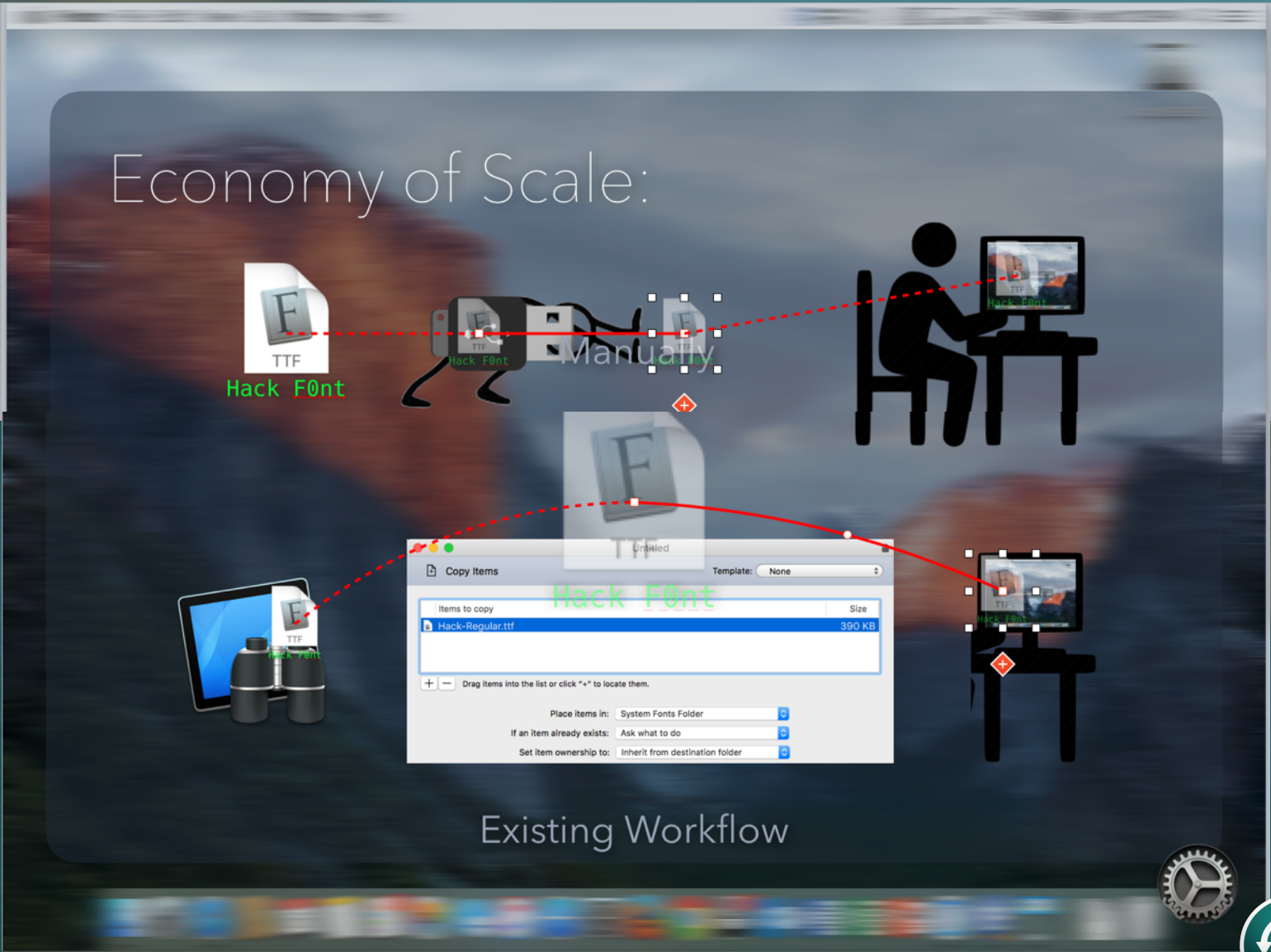
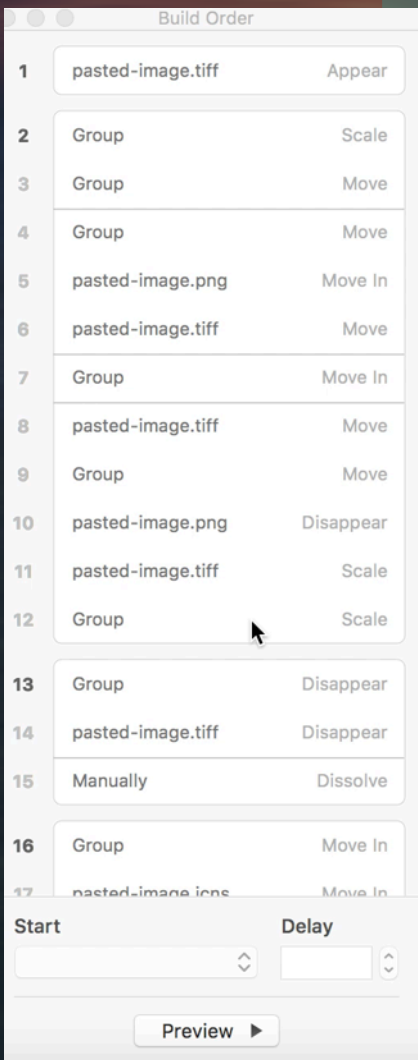
Tools:



Tools:




Tools:



Tools:

Transitions



Magic Move

ChangePreview ▶

Duration

2.00 s

☒ Fade Unmatched Objects

Match

By Object

By Word

By Character

Acceleration

Ease In & Ease Out

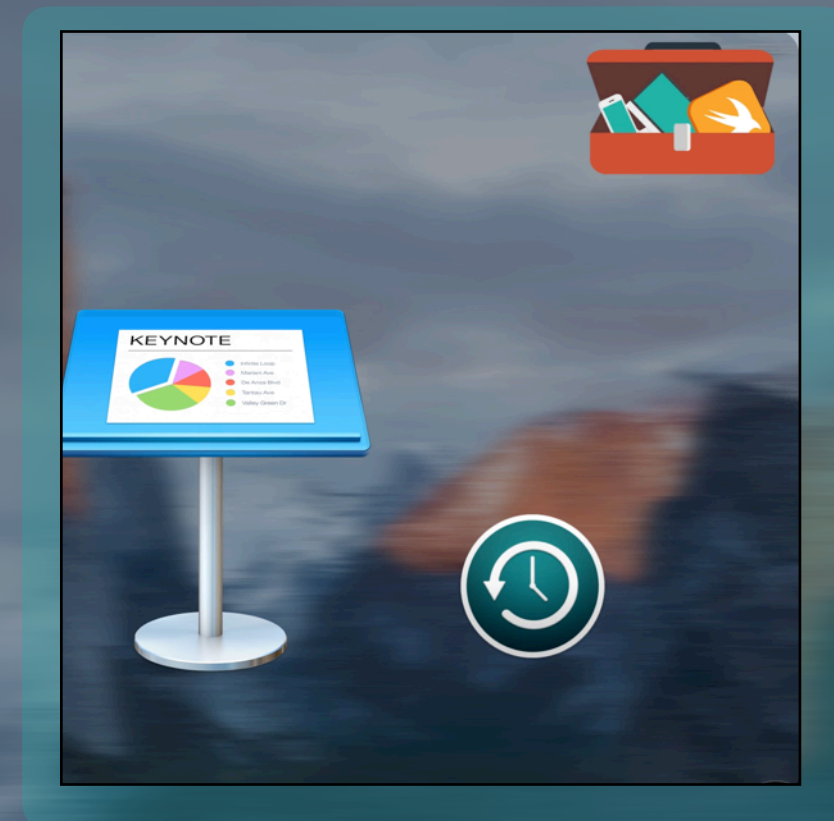
Start Transition

On Click

Delay

0.50 s

Build Order



Tools:



AppleScript



AppleScript Editor



Tools:

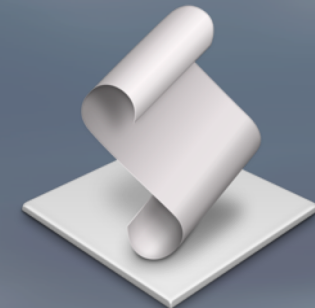
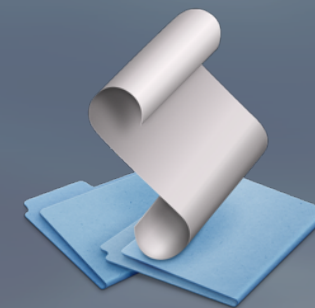
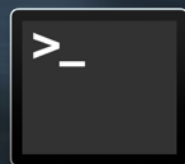
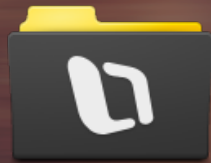


"AppleScript is a scripting language created by Apple. It allows users to directly control scriptable Macintosh applications, as well as parts of OS X itself."

-AppleScript Language Guide



Tools:



Save As: ▼

Tags:

Where: Images ^

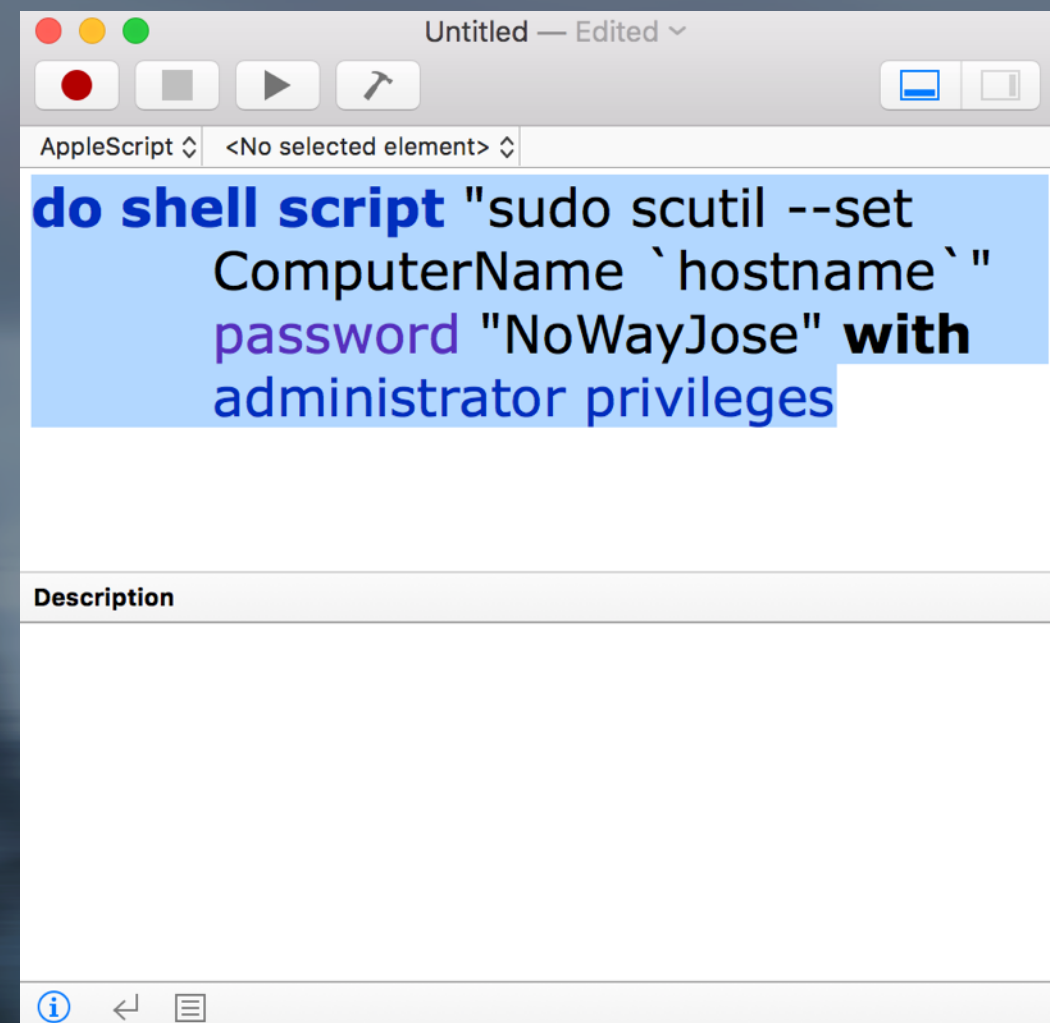
File Format: Script
Script bundle
✓ Application
Text

Options: ☐ Stay open after run handler

Cancel Save



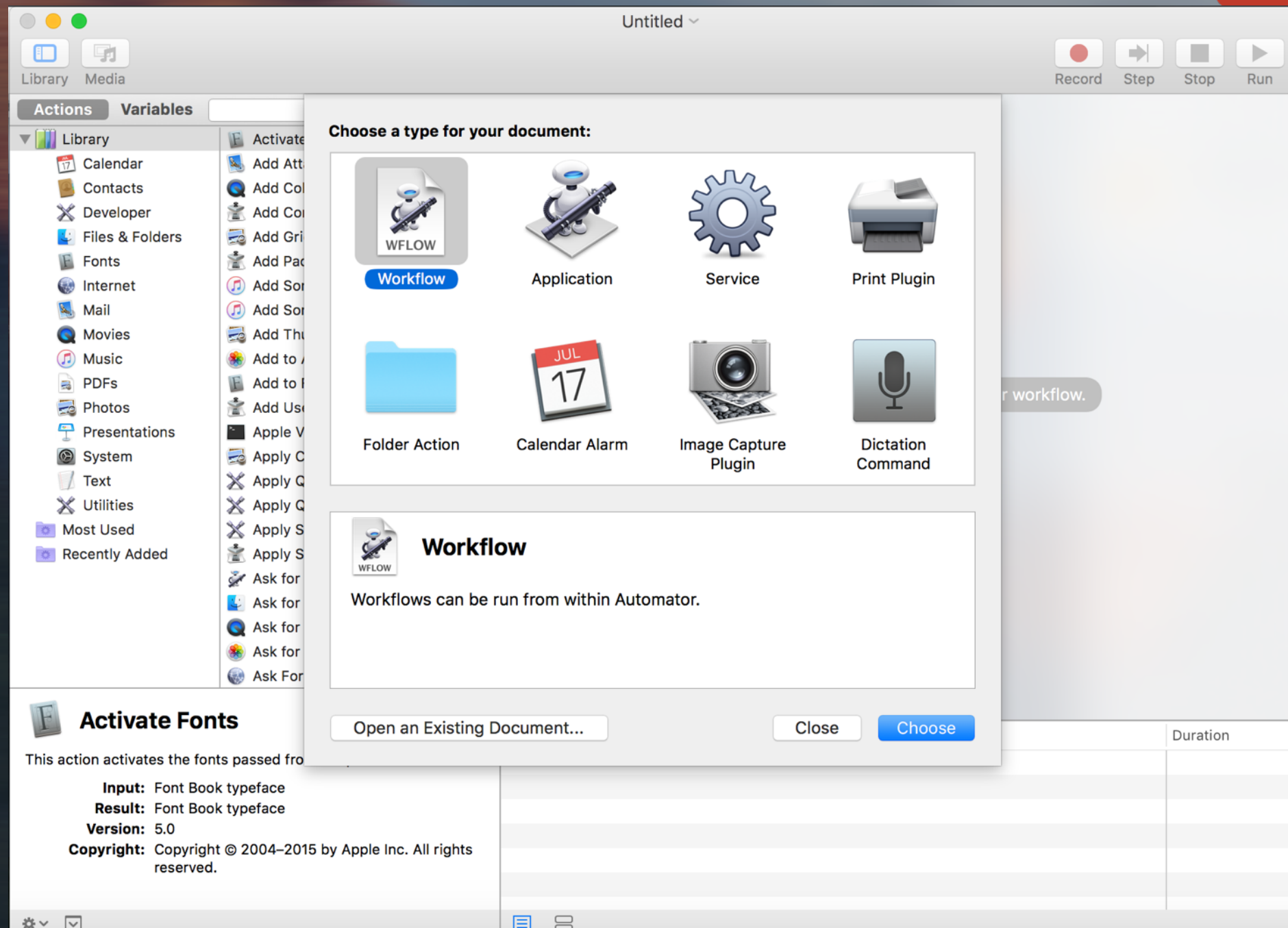
Tools:



Tools:



Tools:



Tools:



Untitled — Edited ▾

Library Media

Actions Variables

Q Name

Library

Calendar

Contacts

Developer

Files & Folders

Fonts

Internet

Mail

Movies

Music

PDFs

Photos

Presentations

System

Text

Utilities

Most Used

Recently Added

Ask for Confirmation

Burn a Disc

Choose Computer List

Choose from List

Choose Remote Computer

Close Every Safari Window

Close Every Window in Finder

Copy Items to Computer Lists

Copy Items to Computers

Copy to Clipboard

Delete Desktop Items

Display Notification

Eject All Disks

Empty Trash

Enable-Disable Dashboard

Execute AppleScript

Execute New UNIX Task

Filter Remote Desktop Items

Find Remote Desktop Items

Force Quit All Applications

Force Quit Remote Application

Get Contents of Clipboard

Get Every Computer

Ask for Confirmation

This action displays a dialog with a message, an explanation, and two buttons. If the user selects the affirmative button the action continues. The negative button stops the workflow.

Input: Anything
Result: Anything
Version: 1.0.2
Copyright: Copyright © 2004-2012 Apple Inc. All rights reserved.

Record Step Stop Run

Choose Computer List

Select the computer lists:

Computer Lists

All Computers

All None Update

Results Options

Execute New UNIX Task

Task Name: Uptimes

Script uptime

User name: macadmin ☒ Show output

Results Options

Restart Computers

☒ User can save changes or cancel

Results Options



Resources:



MACOSXAUTOMATION.COM

OS NOTES: Lion | Mavericks | Yosemite

The Mac OS X Automation Sites

PhotosAutomation.com

A website about automating the Photos application using Automator and AppleScript



MacOSXAutomation.com/Automator

Learn how to use OS X's Automator application to create "automation recipes"

iWorkAutomation.com

A website about automating the iWork suite of applications using AppleScript and Automator



MacOSXAutomation.com/AppleScript

An English-like scripting language for controlling the OS and the applications that run on it

ConfigAutomation.com

Automating the setup and management of iOS devices using the Apple Configurator application



Mac Automation Scripting Guide

Apple's official documentation for the Automation languages in OS X.

DictationCommands.com

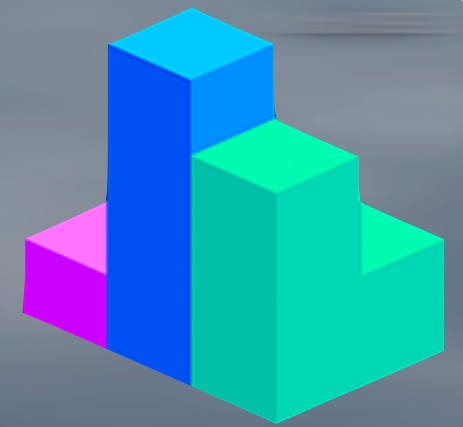
Total voice control of the Mac. Free command set with hundreds of commands for iWork, Photos, and the Finder.




<https://macosxautomation.com/index.html>



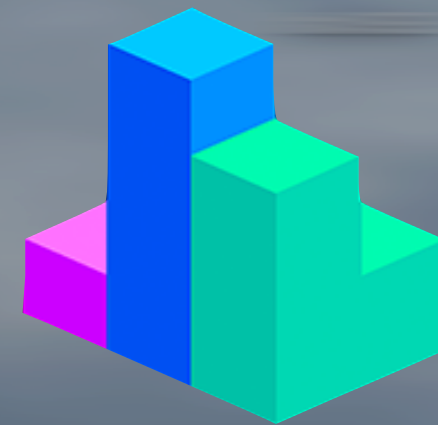
iOS EnterpriseTools:



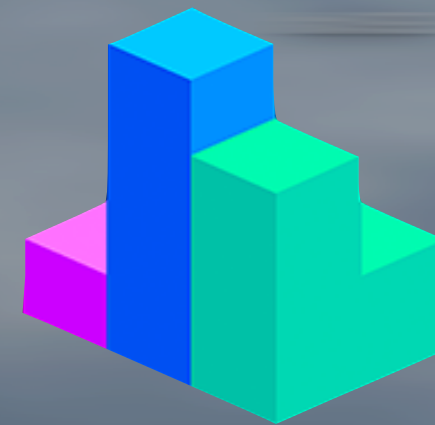
**In the beginning
Apple said unto thee;
thou shalt not have
, ergo no
automation.**



iOS EnterpriseTools:



iOS EnterpriseTools:



MDM APIs



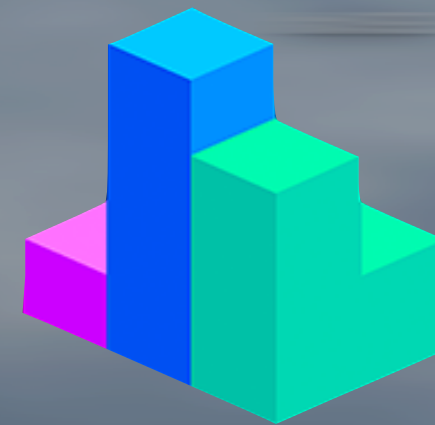
Over The Air Updates



VPP Managed
Distribution



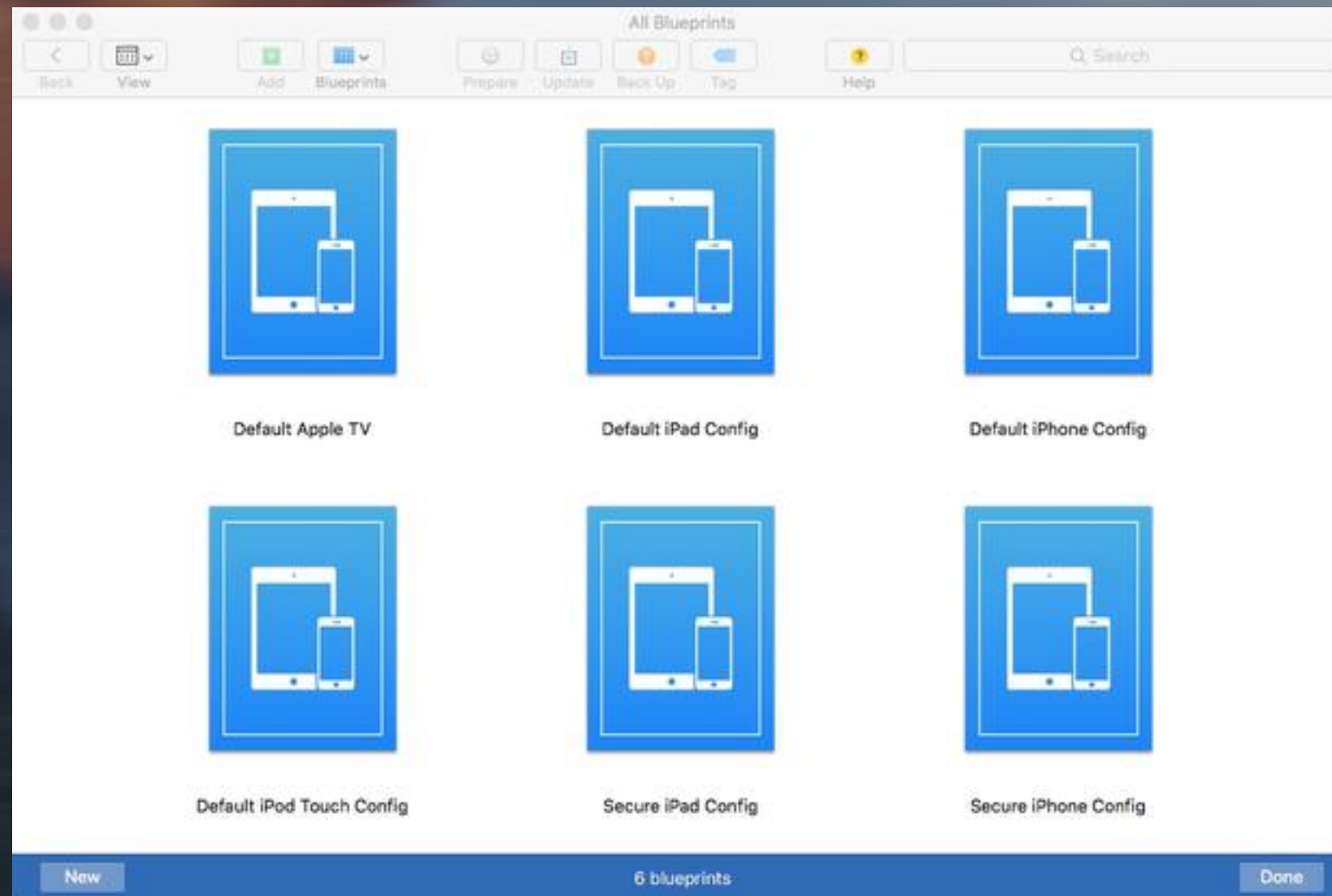
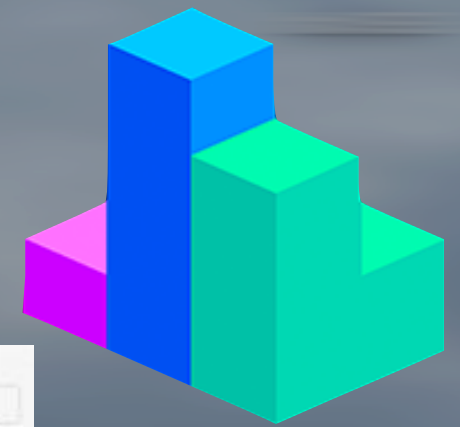
iOS EnterpriseTools:



Apple Configurator 2



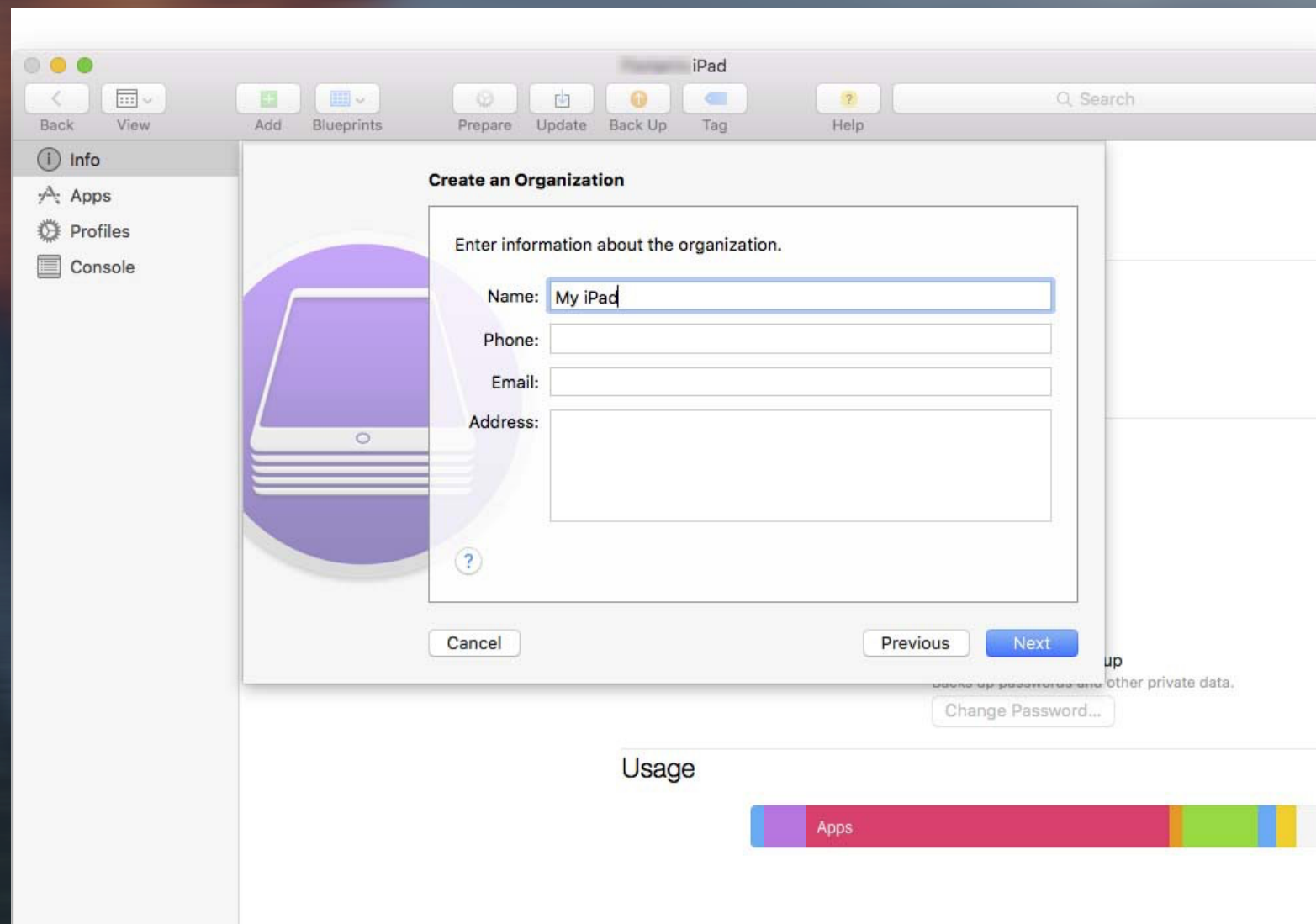
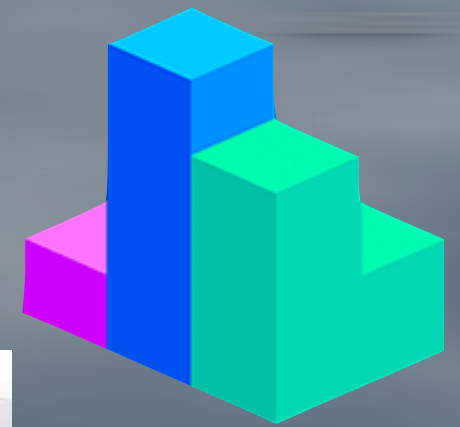
iOS EnterpriseTools:



Apple Configurator 2



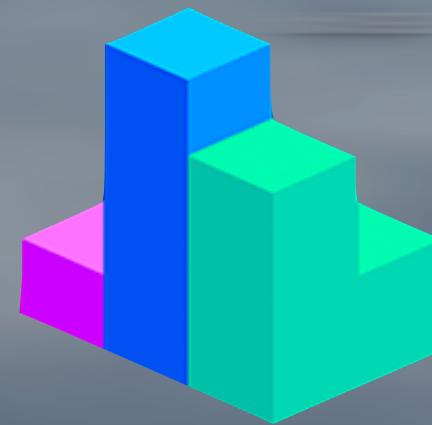
iOS EnterpriseTools:



Apple Configurator 2



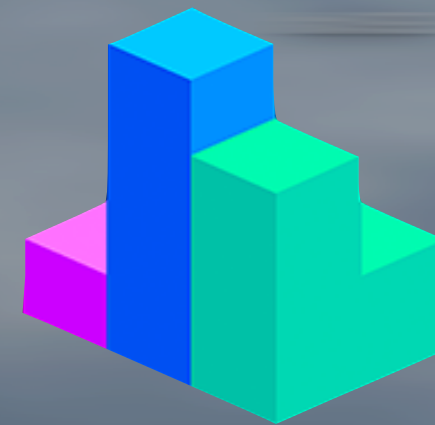
iOS EnterpriseTools:



Apple Configurator 1



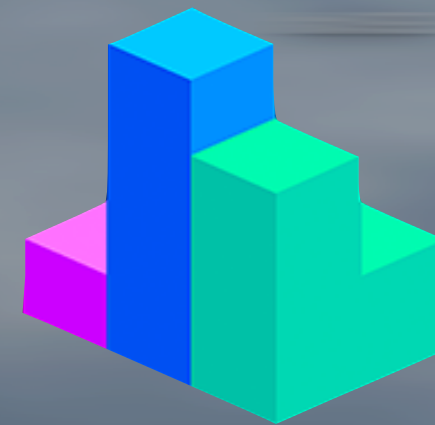
iOS EnterpriseTools:



Apple Configurator 2



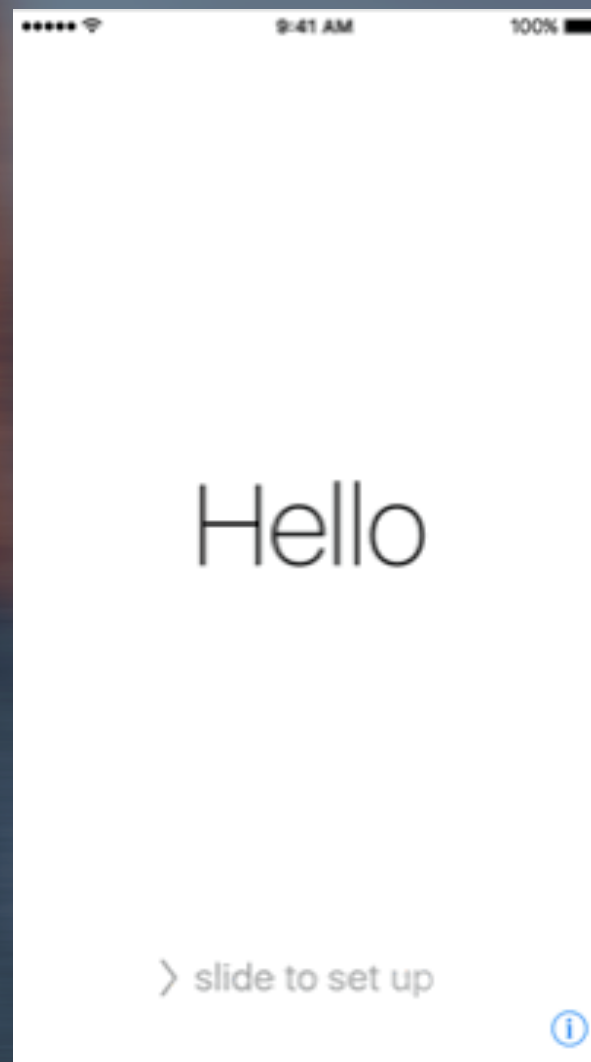
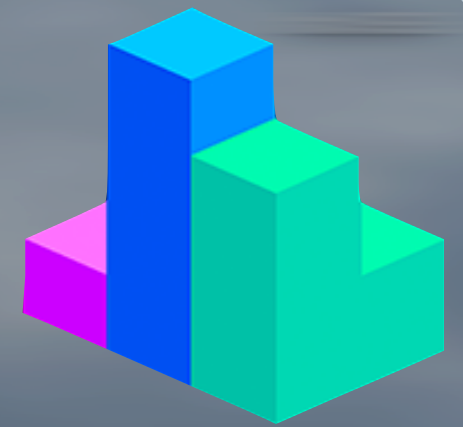
iOS EnterpriseTools:



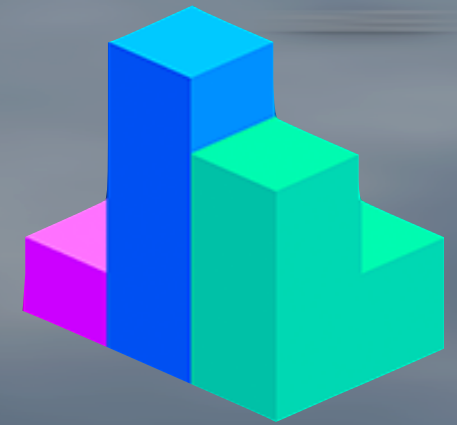
Device Enrollment Program



iOS EnterpriseTools:



iOS EnterpriseTools:



General Configuration

Initial device group

Default

- ☒ Force MDM enrollment
- ☐ Allow MDM removal by user
- ☒ Place device in Supervised mode
- ☒ Allow pairing with OS X computers
- ☐ Disable Siri
- ☒ Disable sending diagnostics info

Organization Details

This information is presented to the user of the device during the setup process.

Optional Setup Panes

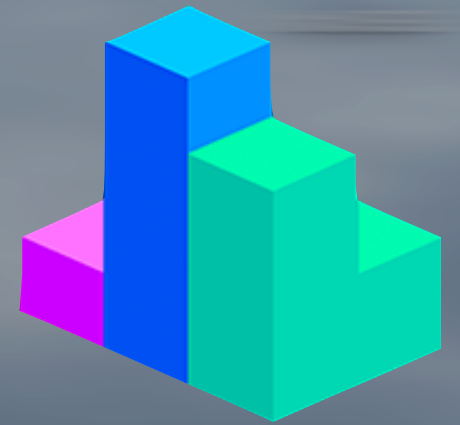
You can choose to skip any of the setup steps below.

- ☒ Skip passcode setup
- ☐ Skip location services
- ☐ Skip restoring from backup
- ☒ Remove "Move from Android" from restore options
- ☒ Skip signing in to Apple ID and iCloud
- ☒ Skip Terms and Conditions
- ☒ Skip Touch ID setup
- ☒ Skip Apple Pay setup
- ☒ Skip zoom setup
- ☒ Skip registration screen (OS X)
- ☒ Disable FileVault setup assistant (OS X)



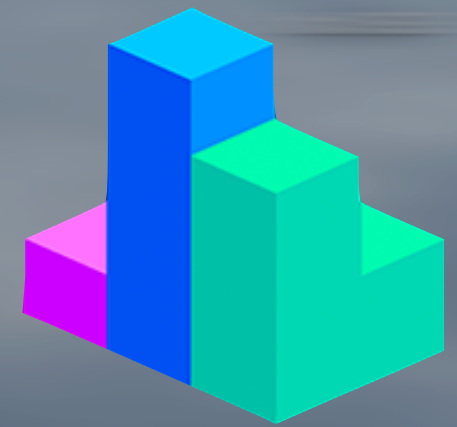
EnterpriseTools:

Deploy Studio



EnterpriseTools:

Deploy Studio



DeployStudio Admin connected to server11.pretendco.com

Runtime Control Logs

Search

Search

1	Title	Description	Identifier	Access group	Publish
67	- Restore naar Restore10f	partition disk, restore10d	ADB358FD-34CF-49BE-BD26-00659A20F4...	-	✓
9	-Restore and tweak SIP	Restore 10.11, create use...	25B8F048-874F-48F0-9514-D5DA9D6952EF	-	✓
5	Create a master from a volume	This simple workflow en...	04062220-1111-BBBB-2222-000000000000	-	✓
1	Create a master from a volume no intermediate files o...	This simple workflow en...	38AEC8F3-4413-4376-88F0-08B00C267B3F	-	✓
6	Install a package (pkg)	This simple workflow en...	04062220-1111-BBBB-2222-000000000020	-	✓
	Restore 10.11.2 and configure		29DD72C6-5418-4174-ACDF-DDE4617DCE4E	-	✓
	Restore a master on a volume	This simple workflow en...	04062220-1111-BBBB-2222-000000000010	-	✓
	Restore naar Restore10e	partition disk, restore10d	68C316C5-02C0-49D1-BD26-27386322011B	-	✓
	Triple-OS restoration	This workflow shows the...	04062220-1111-BBBB-2222-000000000030	-	✓

Configure

Target volume: Previous task target

☒ Rename computer
☐ Set computer information
☐ Set software licenses
☐ Configure network
☒ Create local users
☐ Rename ByHost prefs
☒ Automate

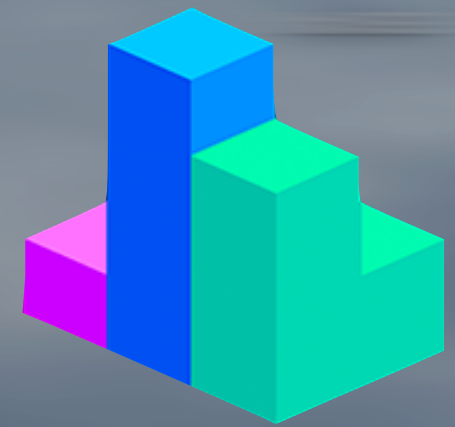
☐ Freeze home directories content (restored at reboot)
☒ Skip Apple Setup/Server Assistant
☐ Enable ARD agent admin-group (optional)
☐ Enable Firewall
☐ Disable Gatekeeper

Revert Save



EnterpriseTools:

Deploy Studio



Active Directory binding

Target volume: Previous task target

Computer ID: Computer name

Domain: newdomain.com

Computers node: OU=Mac,OU=Workstations,OU=Machines,DC=newdomain,DC=com

Active Directory computers' administrator login: serviceaccount Password: ☐ Show

Security: sign packets encrypt packets password change interval 10 days

☒ Enable mobile accounts (☐ Require user confirmation) ☒ Force local home directories

☐ Use UNC path from Active Directory with network protocol: CIFS

☐ Authenticate to domain: All Domains

☐ Allow administration by: domain admins,enterprise admins

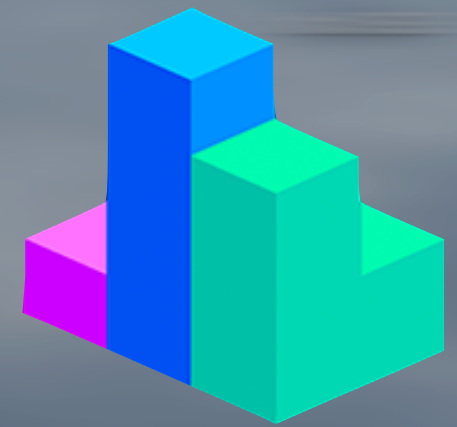
Custom mappings: UID: Optional GID: Optional GGID: Optional

☒ Automate



EnterpriseTools:

Deploy Studio

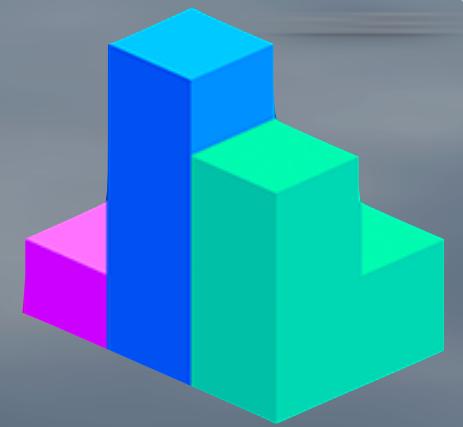


```
DeployStudio Finalize script log

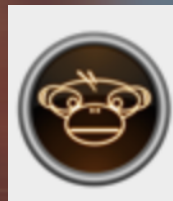
ds_finalize.sh - v1.35 (Thu Feb 26 07:52:12 PST 2015)
ds_finalize.sh - disabling Spotlight indexing...
ds_finalize.sh - updating dyld shared caches...
ds_finalize.sh - running /etc/deploystudio/bin/ds_rename_computer.sh
ds_rename_computer.sh - v1.7 (Thu Feb 26 07:52:54 PST 2015)
Setting local hostname to 'ds-workflow-test'...
Setting computer name to 'DS-WORKFLOW-TEST'...
ds_finalize.sh - running /usr/libexec/configureLocalKDC
ds_finalize.sh - Disabling iCloud and gestures preference panes auto-launch at first login.
ds_finalize.sh - Finalize script completed, system will automatically reboot.
ds_finalize.sh - end
ds_finalize.sh - v1.35 (Thu Feb 26 08:06:37 PST 2015)
ds_finalize.sh - disabling Spotlight indexing...
ds_finalize.sh - updating dyld shared caches...
ds_finalize.sh - running /etc/deploystudio/bin/ds_rename_computer.sh
ds_rename_computer.sh - v1.7 (Thu Feb 26 08:07:23 PST 2015)
Setting local hostname to
Setting computer name to
ds_finalize.sh - running /usr/libexec/configureLocalKDC
ds_finalize.sh - Disabling iCloud and gestures preference panes auto-launch at first login.
ds_finalize.sh - Finalize script completed, system will automatically reboot.
ds_finalize.sh - end
ds_finalize.sh - v1.35 (Thu Feb 26 08:20:21 PST 2015)
ds_finalize.sh - disabling Spotlight indexing...
ds_finalize.sh - updating dyld shared caches...
ds_finalize.sh - running /usr/libexec/configureLocalKDC
ds_finalize.sh - running /etc/deploystudio/bin/ds_active_directory_binding.sh
ds_active_directory_binding.sh - v1.26 (Thu Feb 26 08:21:08 PST 2015)
Checking for the default route to be active...
Testing reachability on address
round-trip min/avg/max/stddev = 3.725/3.725/3.725/0.000 ms
Ping successful!
Unbinding computer...
dsconfigad: This computer is not Bound to Active Directory. You must bind it first.
Binding computer to domain
```



EnterpriseTools:



Automate My Image



Package Management



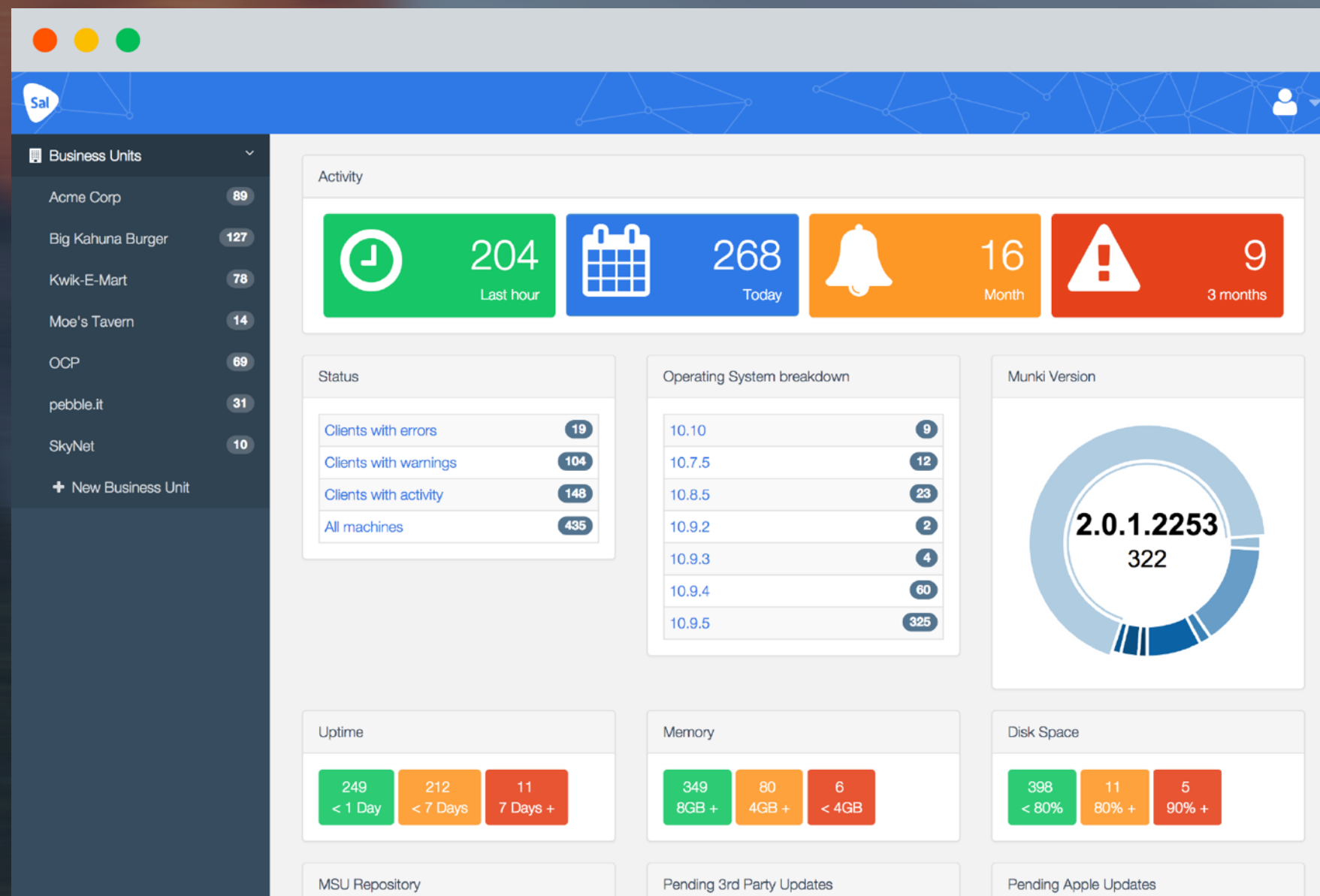
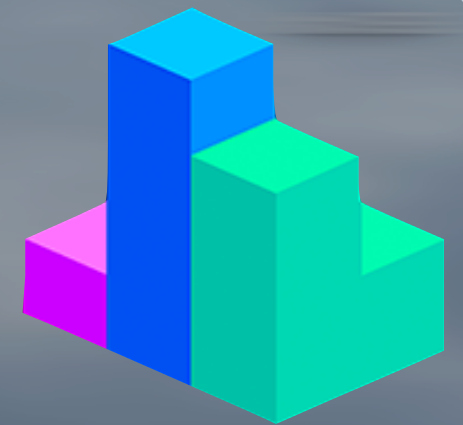
 puppet



Security



EnterpriseTools:



Sal



EnterpriseTools:

Jenkins [ENABLE AUTO REFRESH](#) [add description](#)

[New Job](#) [People](#) [Build History](#) [Manage Jenkins](#)

Build Queue
No builds in the queue.

Build Executor Status

#	Status
1	Idle
2	Idle

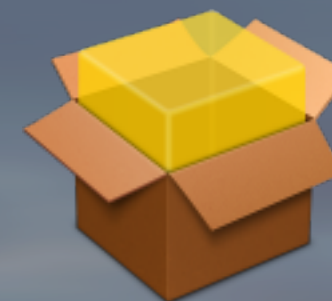
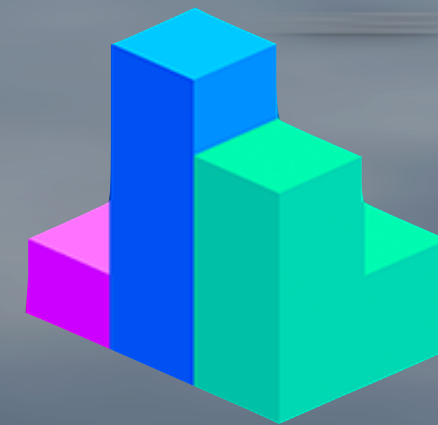
S	W	Name ↓	Last Success	Last Failure	Last Duration
		Adobe Flash Player	3 hr 3 min - #27	20 days - #2	5.1 sec
		Firefox	3 hr 3 min - #23	N/A	35 sec
		Google Chrome	3 hr 3 min - #22	19 days - #1	22 sec
		Office 2011 Updates	3 hr 3 min - #21	N/A	3.4 sec
		Start autopkg run	3 hr 4 min - #22	N/A	1 sec
		VLC	3 hr 3 min - #21	N/A	49 sec

Icon: [S](#) [M](#) [L](#)

[Legend](#) [RSS for all](#) [RSS for failures](#) [RSS for just latest builds](#)

[Help us localize this page](#) Page generated: Oct 29, 2013 9:56:48 AM [REST API](#) Jenkins ver. 1.534

Jenkins



Canaries



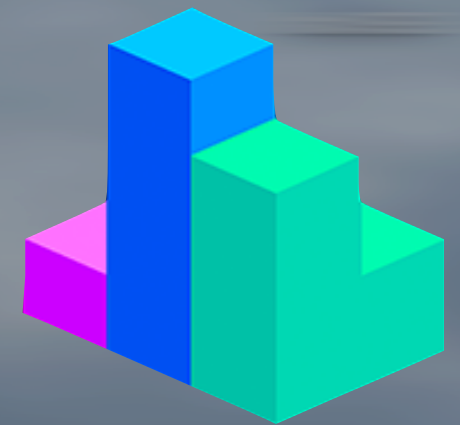
Testers



Production



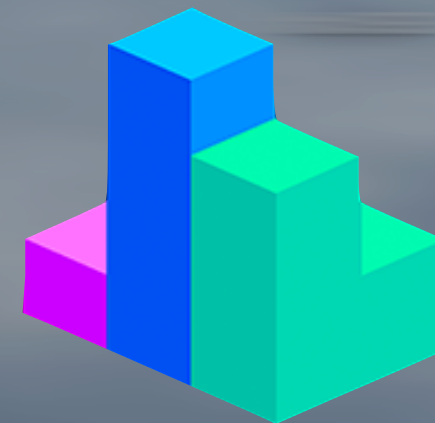
EnterpriseTools:



Munki



EnterpriseTools:



Margarita Margarita Apply queued changes 2 Hide commonly listed updates Filter...

Software Update Product	Version	Post Date	Apple branch	production branch	testing branch
BootCamp Deprecated	1.0	2015-05-19	Unlisted		Unlisted
XProtectPlistConfigData Deprecated	1.0	2015-04-21	Unlisted		Unlisted
BootCamp	1.0	2015-05-29	Listed		Listed
XProtectPlistConfigData	1.0	2015-05-28	Listed		Listed
Chinese Word List Update	3.16	2015-05-26	Listed		Listed
BootCamp	1.0	2015-05-19	Listed	Unlisted	Unlisted
Command Line Tools (OS X 10.10)	6.3	2015-05-18	Listed	Unlisted	Listed
Remote Desktop Client Update	3.8.4	2015-05-18	Listed	Listed	Delisting queued
Remote Desktop Client Shell	3.8.0	2015-05-18	Listed	Listing queued	Listed
Gatekeeper Configuration Data	67	2015-05-15	Listed	Listed	Listed

< < 1 2 3 4 5 6 7 8 9 10 > >

New branch name... Create New Branch

Reposado + Margarita



Q&A

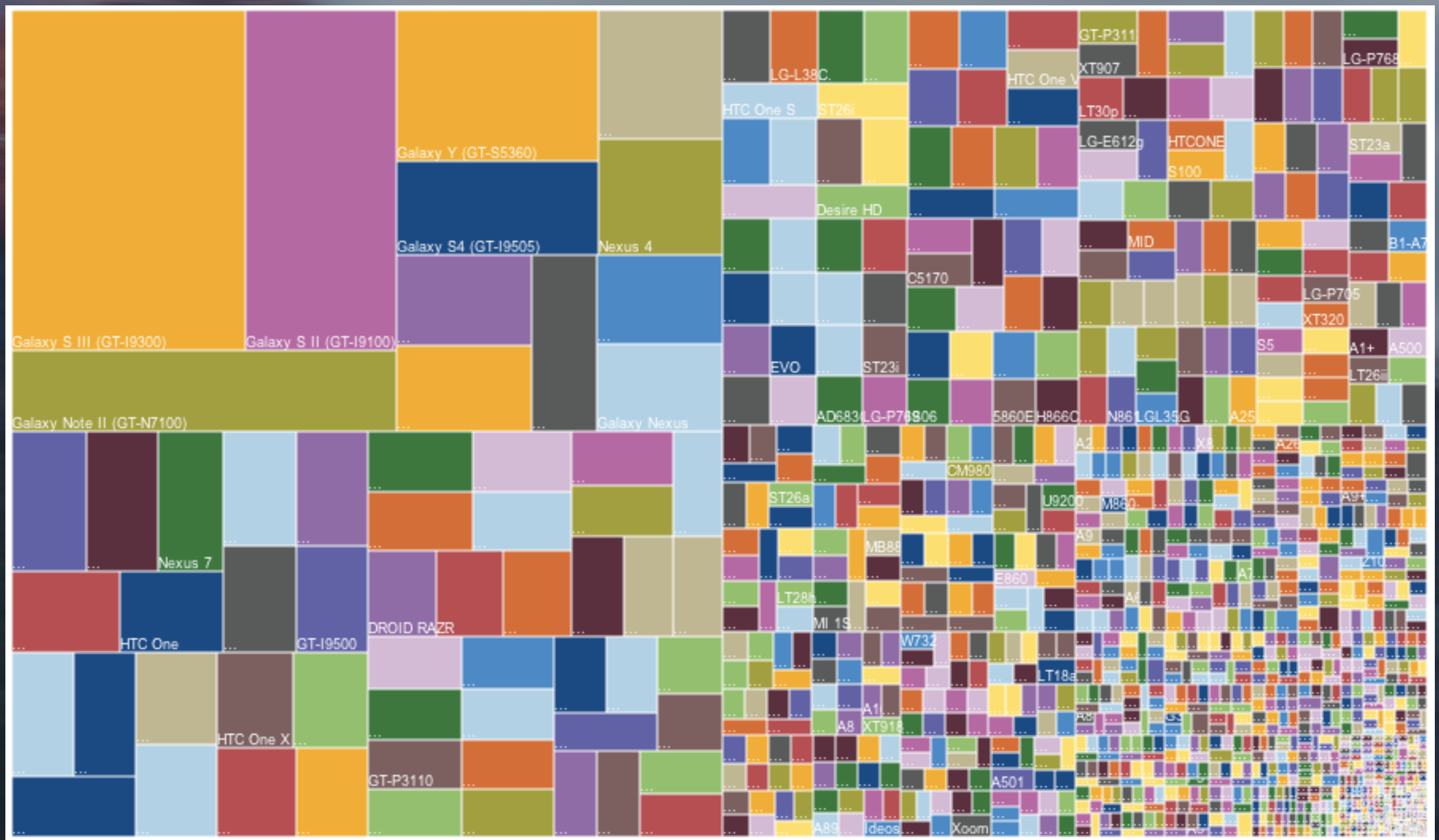


Go forth and Automate



Q&A





Automate This

