command-line tools

munkiimport

munkiimport can import:

Apple Installer packages

Drag-n-drop disk images
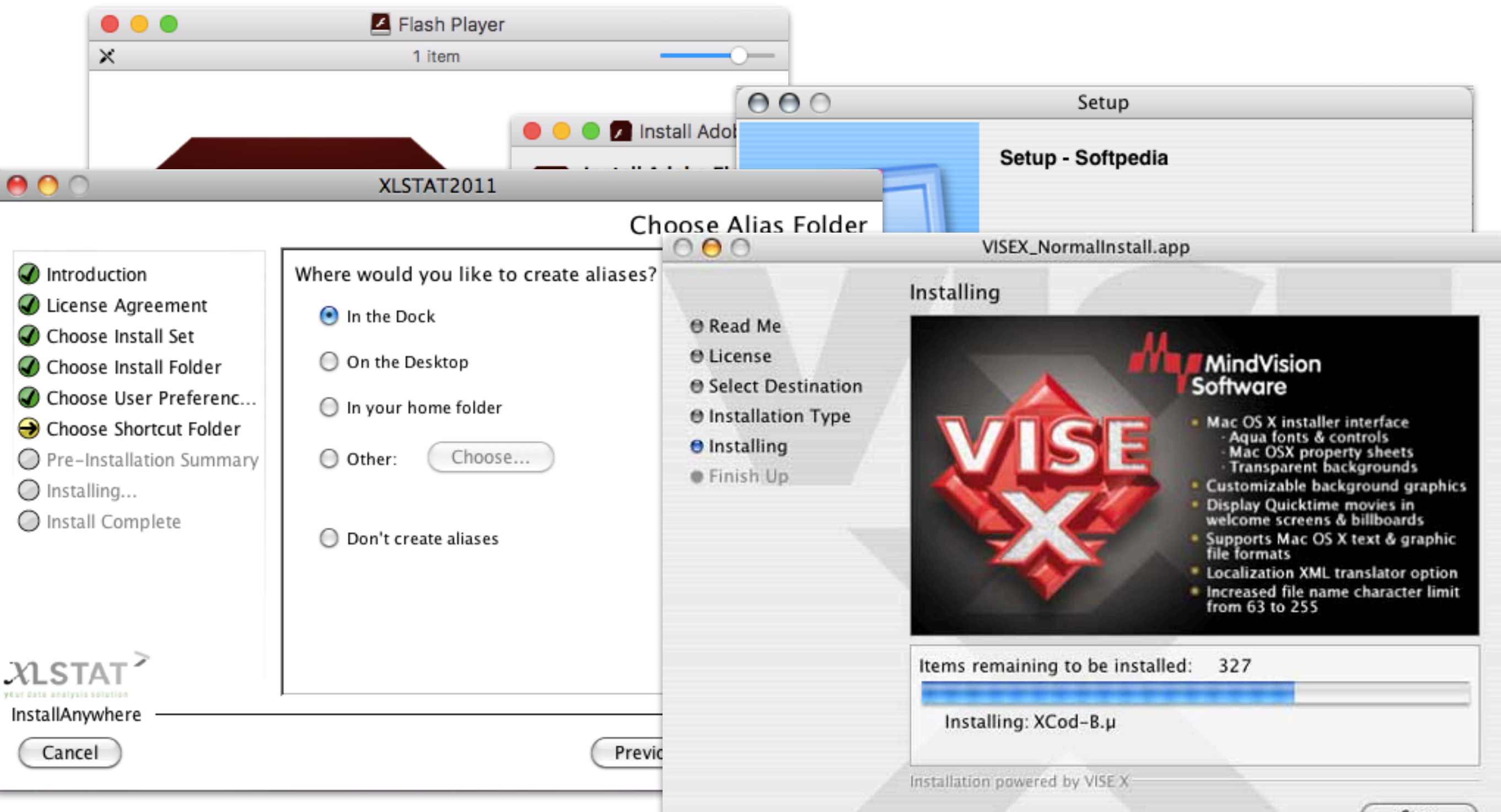
Many types of Adobe "packages"

Configuration profiles

munkiimport can't import:

Installer applications.

munkiimport

configuration

```
bash-3.2$ munkiimport --configure
Repo URL (example: afp://munki.example.com/repo): file:///Users/Shared/munki_repo
pkginfo extension (Example: .plist): .plist
pkginfo editor (examples: /usr/bin/vi or TextMate.app; leave empty to
                not open an editor after import): TextMate.app
Default catalog to use (example: testing): testing
bash-3.2$
```

munkiimport

basic operation

```
bash-3.2$ munkiimport ~/Downloads/googlechrome.dmg
This item is similar to an existing item in the repo:
            Item name: GoogleChrome
         Display name: Google Chrome
          Description: Google's web browser.
              Version: 62.0.3202.75
  Installer item path: apps/GoogleChrome-62.0.3202.75.dmg

Use existing item as a template? [y/n] y
Copying unattended_install: True
Copying category: Internet
Copying developer: Google
            Item name: GoogleChrome
         Display name: Google Chrome
          Description: Google's web browser.
              Version: 62.0.3202.89
             Category: Internet
```

Use existing item as a template? [y/n] y

Copying
Copying
Copying

    Unat
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Import
Copying   ).28
Saving   98
Rebuil
Rebuilding catalogs at /Users/Shared/munki_repo...
bash-3.2$

GoogleChrome-54.0.2840.98.plist — apps (git: master)

```xml
1  <?xml version="1.0" encoding="UTF-8"?>
2  <!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyLis
3  <plist version="1.0">
4  <dict>
5      <key>_metadata</key>
6      <dict>
7          <key>created_by</key>
8          <string>gneagle</string>
9          <key>creation_date</key>
10         <date>2016-11-11T16:19:07Z</date>
11         <key>munki_version</key>
12         <string>2.8.2.2855</string>
13         <key>os_version</key>
14         <string>10.12.1</string>
15     </dict>
16     <key>autoremove</key>
17     <false/>
18     <key>catalogs</key>
19     <array>
20         <string>testing</string>
21     </array>
22     <key>category</key>
23     <string>Internet</string>
24     <key>description</key>
25     <string>Google's web browser.</string>
26     <key>developer</key>
27     <string>Google</string>
28     <key>display_name</key>
29     <string>Google Chrome</string>
30     <key>icon_hash</key>
31     <string>5f520eb8787e2174bb e358ae055eea44e2194b52b2b7c7fd0beb6c1d089c89</string>
32     <key>installer_item_hash</key>y
                                                                        ng>
       <string>apps/googlechrome-54.0.2840.98.dmg</string>
       <key>installer_item_size</key>
```
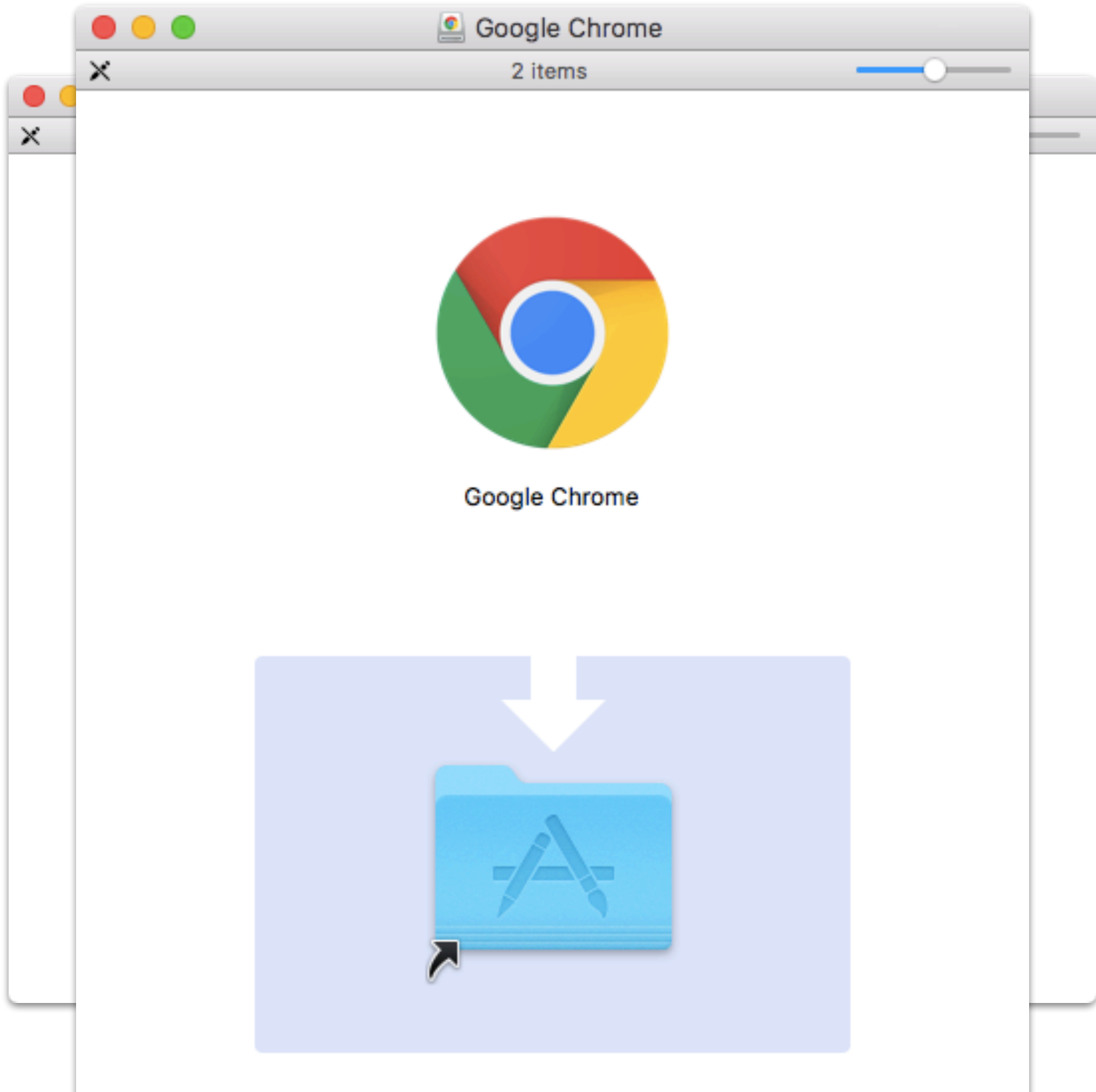
munkiimport

advanced operation

https://www.fosshub.com/Audacity.html/audacity-macosx-ub-2.1.2.dmg

```
bash-3.2$ munkiimport ~/Downloads/audacity-macosx-ub-2.1.2.dmg
Could not find a supported installer item in /Users/gneagle/
Downloads/audacity-macosx-ub-2.1.2.dmg!
Getting package info failed.
bash-3.2$
```

Google Chrome

2 items

Google Chrome
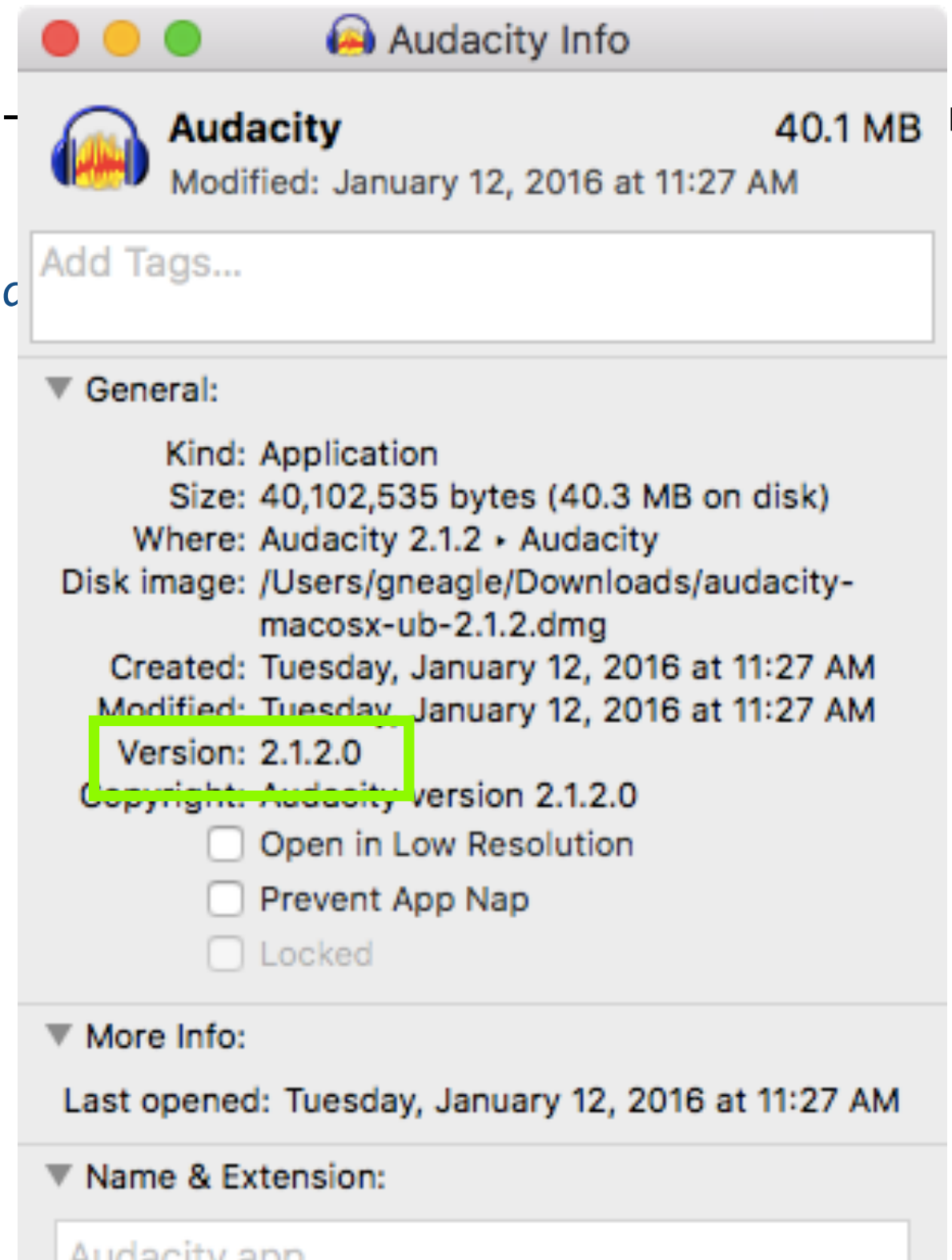
Destination on startup disk

Relative path to item to be copied

```
$ munkiimport ~/Downloads/audacity-macosx-ub-2.1.2.dmg -i Audacity -d /Applications
```

```
$ munkiimport ~/Downloads/audacity-macosx-ub-               ns
          Item name: Audacity
       Display name: Audacity
        Description: A free audio editor and
            Version: 2.1.2.0
           Category: Audio
          Developer: Audacity Team
 Unattended install: True
Unattended uninstall: True
           Catalogs: testing

Import this item? [y/n]
```

```
$ munkiimport ~/Download                                                    s
            Item name: Au
         Display name: Au
          Description: A
              Version: 2.
             Category: Au
            Developer: Au
    Unattended install: Tr
  Unattended uninstall: Tr
             Catalogs: te

Import this item? [y/n]
Upload item to subdirect
Copying audacity-macosx-                                                  ty-
Saving pkginfo to /Users                                                    .
```

```
34        <key>installer_item_location</key>
35        <string>apps/Audacity/audacity-macosx-ub-2.1.2-2.1.2.0.dmg</string>
36        <key>installer_item_size</key>
37        <integer>33890</integer>
38        <key>installer_type</key>
39        <string>copy_from_dmg</string>
40        <key>installs</key>
41 ▼      <array>
42 ▼        <dict>
43              <key>path</key>
44              <string>/Applications/Audacity</string>
45              <key>type</key>
46              <string>file</string>
47 ▲        </dict>
48 ▲      </array>
49        <key>items_to_copy</key>
50 ▼      <array>
51 ▼        <dict>
52              <key>destination_path</key>
53              <string>/Applications</string>
54              <key>source_item</key>
55              <string>Audacity</string>
56 ▲        </dict>
57 ▲      </array>
58        <key>minimum_os_version</key>
59        <string>10.4.0</string>
60        <key>name</key>
61        <string>Audacity</string>
62        <key>unattended_install</key>
63        <true/>
64        <key>unattended_uninstall</key>
65        <true/>
66        <key>uninstall_method</key>
67        <string>remove_copied_items</string>
68        <key>uninstallable</key>
69        <true/>
70        <key>version</key>
71        <string>2.1.2.0</string>
72 ▲    </dict>
73 ▲  </plist>
74
```

```
bash-3.2$ makepkginfo -f /Applications/Audacity/Audacity.app
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://
www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>_metadata</key>
  <dict>
    <key>created_by</key>
    <string>gneagle</string>
    <key>creation_date</key>
    <date>2016-11-11T19:11:33Z</date>
    <key>munki_version</key>
    <string>2.8.2.2855</string>
    <key>os_version</key>
    <string>10.12.1</string>
  </dict>
  <key>autoremove</key>
  <false/>
  <key>catalogs</key>
  <array>
    <string>testing</string>
  </array>
```

```
        <string>testing</string>
    </array>
    <key>installs</key>
    <array>
        <dict>
            <key>CFBundleIdentifier</key>
            <string>net.sourceforge.audacity</string>
            <key>CFBundleName</key>
            <string>Audacity</string>
            <key>CFBundleShortVersionString</key>
            <string>2.1.2.0</string>
            <key>CFBundleVersion</key>
            <string>2.1.2.0</string>
            <key>path</key>
            <string>/Applications/Audacity/Audacity.app</string>
            <key>type</key>
            <string>application</string>
            <key>version_comparison_key</key>
            <string>CFBundleShortVersionString</string>
        </dict>
    </array>
    <key>version</key>
    <string>1.0.0.0.0 (Please edit me!)</string>
</dict>
</plist>
```

```
$ munkiimport ~/Download                                              s
            Item name: Au
         Display name: Au
          Description: A
              Version: 2.
             Category: Au
            Developer: Au
    Unattended install: Tr
  Unattended uninstall: Tr
             Catalogs: te

Import this item? [y/n]
Upload item to subdirect
Copying audacity-macosx-                                          ty-
Saving pkginfo to /Users                                             .
```

```xml
34    <key>installer_item_location</key>
35    <string>apps/Audacity/audacity-macosx-ub-2.1.2-2.1.2.0.dmg</string>
36    <key>installer_item_size</key>
37    <integer>33890</integer>
38    <key>installer_type</key>
39    <string>copy_from_dmg</string>
40    <key>installs</key>
41    <array>
42        <dict>
43            <key>CFBundleIdentifier</key>
44            <string>net.sourceforge.audacity</string>
45            <key>CFBundleName</key>
46            <string>Audacity</string>
47            <key>CFBundleShortVersionString</key>
48            <string>2.1.2.0</string>
49            <key>CFBundleVersion</key>
50            <string>2.1.2.0</string>
51            <key>path</key>
52            <string>/Applications/Audacity/Audacity.app</string>
53            <key>type</key>
54            <string>application</string>
55            <key>version_comparison_key</key>
56            <string>CFBundleShortVersionString</string>
57        </dict>
58    </array>
59    <key>items_to_copy</key>
60    <array>
61        <dict>
62            <key>destination_path</key>
63            <string>/Applications</string>
64            <key>source_item</key>
65            <string>Audacity</string>
66        </dict>
67    </array>
68    <key>minimum_os_version</key>
69    <string>10.4.0</string>
70    <key>name</key>
71    <string>Audacity</string>
72    <key>unattended_install</key>
73    <true/>
74    <key>unattended_uninstall</key>
75    <true/>
```

Audacity-2.1.2.0.plist — Audacity (git: master)

```
$ munkiimport ~/Download                                    s
          Item name: Au
       Display name: Au
        Description: A
            Version: 2.
           Category: Au
          Developer: Au
  Unattended install: Tr
Unattended uninstall: Tr
           Catalogs: te

Import this item? [y/n]
Upload item to subdirect
Copying audacity-macosx-
Saving pkginfo to /Users
```

```
34    ▸   <key>installer_item_location</key>¬
35    ▸   <string>apps/Audacity/audacity-macosx-ub-2.1.2-2.1.2.0.dmg</string>¬
36    ▸   <key>installer_item_size</key>¬
37    ▸   <integer>33890</integer>¬
38    ▸   <key>installer_type</key>¬
39    ▸   <string>copy_from_dmg</string>¬
40    ▸   <key>installs</key>¬
41 ▾  ▸   <array>¬
42 ▾  ▸      <dict>¬
43    ▸  ▸  ▸   <key>CFBundleIdentifier</key>¬
44    ▸  ▸  ▸   <string>net.sourceforge.audacity</string>¬
45    ▸  ▸  ▸   <key>CFBundleName</key>¬
46    ▸  ▸  ▸   <string>Audacity</string>¬
47    ▸  ▸  ▸   <key>CFBundleShortVersionString</key>¬
48    ▸  ▸  ▸   <string>2
49    ▸  ▸  ▸   <key>CFBu
50    ▸  ▸  ▸   <string>2
51    ▸  ▸  ▸   <key>path
52    ▸  ▸  ▸   <string>/
53    ▸  ▸  ▸   <key>type
54    ▸  ▸  ▸   <string>a
55    ▸  ▸  ▸   <key>vers
56    ▸  ▸  ▸   <string>C
57 ▴  ▸      </dict>¬
58 ▴  ▸   </array>¬
59    ▸   <key>items_to_cop
60 ▾  ▸   <array>¬
61 ▾  ▸      <dict>¬
62    ▸  ▸  ▸   <key>dest
63    ▸  ▸  ▸   <string>/
64    ▸  ▸  ▸   <key>sour
65    ▸  ▸  ▸   <string>A
66 ▴  ▸      </dict>¬
67 ▴  ▸   </array>
68    ▸   <key>minimum_os_v
69    ▸   <string>10.6.0</s
70    ▸   <key>name</key>¬
71    ▸   <string>Audacity<
72    ▸   <key>unattended_i
73    ▸   <true/>¬
74    ▸   <key>unattended_u
```

Audacity-2.1.2.0.plist — Audacity (git: master)

www.audacityteam.org/download/m

Audacity®

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version of Audacity.

System Requirements

Audacity for Mac is a Universal Binary for **OS X 10.6 and later and macOS**. Audacity runs best with at least **1 GB RAM and a 1 GHz processor (2 GB RAM/2 GHz on OS X 10.7 and later and macOS)**.

For lengthy multi-track projects, we recommend a minimum of 2 GB RAM and 2 GHz processor (4 GB RAM on OS X 10.7 and later and macOS.

● The 2.1.1 release was the final release for PPC Macs.

```
$ munkiimport ~/Downloads/audacity-macosx-ub-2.1.2.dmg -i Audacity -d /Applications
          Item name: Audacity
       Display name: Audacity
        Description: A free audio editor and recorder.
            Version: 2.1.2.0
           Category: Audio
          Developer: Audacity Team
  Unattended install: True
Unattended uninstall: True
           Catalogs: testing

Import this item? [y/n] y
Upload item to subdirectory path []:  apps
Copying audacity-macosx-ub-2.1.2.dmg to /Users/Shared/munki_repo/pkgs/apps/audacity-
Saving pkginfo to /Users/Shared/munki_repo/pkgsinfo/apps/Audacity-2.1.2.0.plist...
Rebuild catalogs? [y/n] y
Rebuilding catalogs at /Users/Shared/munki_repo...
bash-3.2$
```

makepkginfo

```
bash-3.2$ makepkginfo ~/Downloads/googlechrome.dmg
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://
www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>_metadata</key>
  <dict>
    <key>created_by</key>
    <string>gneagle</string>
    <key>creation_date</key>
    <date>2016-11-11T20:02:39Z</date>
    <key>munki_version</key>
    <string>2.8.2.2855</string>
    <key>os_version</key>
    <string>10.12.1</string>
  </dict>
  <key>autoremove</key>
  <false/>
  <key>catalogs</key>
  <array>
    <string>testing</string>
  </array>
```

```
    </dict>
  </array>
  <key>items_to_copy</key>
  <array>
    <dict>
      <key>destination_path</key>
      <string>/Applications</string>
      <key>source_item</key>
      <string>Google Chrome.app</string>
    </dict>
  </array>
  <key>minimum_os_version</key>
  <string>10.9.0</string>
  <key>name</key>
  <string>Chrome</string>
  <key>uninstall_method</key>
  <string>remove_copied_items</string>
  <key>uninstallable</key>
  <true/>
  <key>version</key>
  <string>54.0.2840.98</string>
</dict>
</plist>
```

makecatalogs

```
bash-3.2$ makecatalogs
Using repo path: /Users/Shared/munki_repo
Adding Admin/Exceed onDemand Client-13.8.3.plist to testing...
Adding Administrative/tn3270X-3.4.0.plist to testing...
Adding Adobe/Acrobat/Adobe Acrobat DC Update-15.010.20056.plist to tes
Adding apple_update_metadata/031-18011-1.0.plist to testing...
Adding apple_update_metadata/031-20061-64.plist to production...
Adding apple_update_metadata/031-27705-73.plist to production...
Adding apple_update_metadata/031-27898-1.0.plist to production...
Adding apple_update_metadata/031-27899-1.0.plist to production...
Adding applications/GIMP-2.8.14p2.plist to testing...
Adding apps/1Password-4.4.3.plist to testing...
Adding apps/Adium-1.5.10.plist to production...
Adding apps/AlinofTimer-2.1.0.plist to testing...
Adding apps/AptanaStudio3-3.6.1.plist to testing...
Adding apps/Atom-0.209.0.plist to testing...
Adding apps/Atom-1.11.2.plist to production...
Adding apps/Atom-1.12.0.plist to production...
Adding apps/AutoDMG-1.5.3.plist to testing...
Adding apps/Bartender-1.2.39.plist to testing...
Adding apps/Blender-2.74.plist to testing...
Adding apps/BluejeansApp-1.18.15.plist to production...
Adding apps/BluejeansApp-1.19.50.plist to production...
```

```
Adding utilities/BatChmod-1.6.3.plist to testing...
Adding utilities/ClamXav-2.7.5.plist to testing...
Adding utilities/dockutil-2.0.2.plist to testing...
Adding utilities/ElectricSheep-2.plist to testing...
Adding utilities/FontNuke-1.2.6.plist to testing...
Adding utilities/PredicateInstaller-0.1409284920.plist to testing...
Adding utilities/screenFetch-v3.6.5.plist to testing...
Adding utilities/SMART Tools Notebook-11.4.558.0.plist to testing...
Adding utilities/ThinLincClient-4.2.0.plist to testing...
Adding utilities/TrimEnabler-3.3.plist to testing...
Adding utilities/XQuartz-2.7.108.plist to testing...
Adding utilities/XQuartz-2.7.112.plist to testing...
Adding utilities/gfxCardStatus/gfxCardStatus-2.3.plist to testing...
Adding utilities/osquery/osquery-1.4.6.plist to production...
Adding utilities/smcFanControl/smcFanControl-2.5.2.plist to testing...
Adding utilities/Xslimmer/Xslimmer-1.9.4.plist to testing...
Adding utility/Oracle/OracleJava8JDK-1.8.0_101.plist to testing...
Adding utility/unity/UnityWebPlayer-999.plist to testing...

Created catalog /Users/Shared/munki_repo/catalogs/all...
Created catalog /Users/Shared/munki_repo/catalogs/testing...
Created catalog /Users/Shared/munki_repo/catalogs/production...
bash-3.2$
```

manifestutil

```
$ manifestutil add-pkg GoogleChrome --manifest site_default
Added GoogleChrome to section managed_installs of manifest site_default.
```

```
$ manifestutil display-manifest site_default
 catalogs:
     testing
     production
 included_manifests:
     groups/StandardApps
     groups/AllOptionalInstalls
 managed_installs:
     Firefox
     GoogleChrome
 managed_uninstalls:
 managed_updates:
 optional_installs:
```

Demo