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How to create a "DMG Installer" for Mac OS X

HOWTODMG.md

## Creating a "DMG installer" for OS X

A DMG Installer is convenient way to provide end-users a simple way to install an application bundle. They are basically a folder with a shortcut to the Applications directory but they can be customized with icons, backgrounds, and layout properties. A DMG file (.dmg) is a Mac OS X Disk Image file and it is used to package files or folders providing compression, encryption, and read-only to the package.

##Creating the DMG file #Disk Utility Type `Disk Utility` into Spotlight **CMD+SPACEBAR** from Finder or from Terminal:

```
open /Applications/Utilities/Disk\ Utility.app/
```

**File -> New -> Disk Image from Folder** or **CMD+SHIFT+N**

Select the folder `myapp.app/` when prompted then click `Image` .

In the `Save As` field enter a name for the file like `myapp.dmg` .

From the `Image Format` drop-down select `read/write` then click `Save` .

#Edit Folder Preferences Mount the dmg and open it by double-clicking the file in Finder or from Terminal:

```
open myapp.dmg
open /Volumes/myapp/
```

Create a link/shortcut to /Applications folder by right-clicking on the `Applications` folder and selecting `Make Alias` then drag it into the dmg folder or from Terminal:

```
cd /Volumes/myapp/
ln -s /Applications Applications
```

In Finder press **CMD+1** to switch to icon view and arrange icons as needed.

Press **CMD+J** to show the View Options window and adjust view settings as needed.

From `Background:` section choose `Picture` then Drag and drop the image you want to use as the background where it says `Drag image here` .

Unmount/Eject the dmg when finished with View Options or from Terminal:

```
umount /Volumes/myapp/
```

#Compress and convert to Read-only From Disk Utility right-click on myapp.dmg disk image and select `Convert "myapp.dmg"` .

In the `Save As` field enter a new name for the file like `myappfinal.dmg` .

From the `Image Formate` drop-down select `read-only` then click `Save` or from Terminal:

```
hdiutil convert -format UDZO -o myappfinal.dmg myapp.dmg
```

#FIN Congratulations you are finished! Mount the new dmg to verify it is working properly.