Creating a macOS 10.14 Mojave installation ISO

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I previously wrote up my version of creating a macOS High Sierra ISO <u>HERE</u>.

For Mojave there's a fix that needed to be applied (delete a bad hard link on the image, replace with a directory) but otherwise it works. I also changed it to use your CURRENT DIRECTORY as the working directory. So do this on your fastest disk (SSD hopefully).

First, download Mojave from the App Store and then cancel the installation after it starts (Command-Q). This will leave the "Install macOS Mojave" installer in your /Applications folder.

Then copy this code and save it as a shell script named "mk-mojave-iso.sh"

#!/usr/bin/env bash hdiutil attach /Applications/Install\ macOS\ Mojave\.app/Contents/SharedSupport/InstallESD.dmg -noverify -mountpoint /Volumes/moiave hdiutil create -o ./MojaveBase.cdr -size 7316m -layout SPUD -fs HFS+J hdiutil attach ./MojaveBase.cdr.dmg -noverify -mountpoint /Volumes/install build asr restore -source /Applications/Install\ macOS\ Mojave\.app/Contents/SharedSupport/BaseSystem.dmg -target /Volumes/install build -noprompt -noverify -erase rm -rf /Volumes/OS\ X\ Base\ System/System/Installation/Packages mkdir -p /Volumes/OS\ X\ Base\ System/System/Installation/Packages cp -R /Volumes/mojave/Packages/* /Volumes/OS\ X\ Base\ System/System/Installation/Packages/ hdiutil detach /Volumes/OS\ X\ Base\ System/ hdiutil detach /Volumes/mojave/ mv ./MojaveBase.cdr.dmg ./BaseSystem.dmg # Restore the 10.13 Installer's BaseSystem.dmg into file system and place custom BaseSystem.dmg into the root hdiutil create -o ./Mojave.cdr -size 8965m -layout SPUD -fs HFS+J hdiutil attach ./Mojave.cdr.dmg -noverify -mountpoint /Volumes/install build asr restore -source /Applications/Install\ macOS\ Mojave\.app/Contents/SharedSupport/BaseSystem.dmg -target /Volumes/install_build -noprompt -noverify -erase cp ./BaseSystem.dmg /Volumes/OS\ X\ Base\ System hdiutil detach /Volumes/OS\ X\ Base\ System/ hdiutil convert ./Mojave.cdr.dmg -format UDTO -o ./Mojave.iso mv ./Mojave.iso.cdr ~/Desktop/Mojave.iso rm ./Mojave.cdr.dmg

Run the code from a clean working directory on a fast SSD. The output will contain a few errors highlighted below but you can ignore them:

→ mojave ./mk-mojave-iso.sh /dev/disk5 GUID_partition_scheme /dev/disk5s1 EFI /dev/disk5s2 Apple_HFS /Volumes/mojave created: /Volumes/Data/mojave/MojaveBase.cdr.dmg /dev/disk6 Apple_partition_scheme /dev/disk6s1 Apple_partition_map /dev/disk6s2 Apple_HFS /Volumes/install_build Validating target...done Validating source...done Retrieving scan information...done Validating sizes...done Restoring10....20....30....40....50....60....70....80....90....100 Restored target device is /dev/disk6s2. Remounting target volume...done Personalization succeeded asr: Couldn't personalize volume /Volumes/OS X Base System "disk6" ejected. "disk5" eiected. created: /Volumes/Data/mojave/Mojave.cdr.dmg /dev/disk5 Apple partition scheme /dev/disk5s1 Apple partition map /dev/disk5s2 Apple_HFS /Volumes/install_build Validating target...done Validating source...done Retrieving scan information...done Validating sizes...done Restoring10....20....30....40....50....60....70....80....90....100 Restored target device is /dev/disk5s2. Remounting target volume...done Personalization succeeded asr: Couldn't personalize volume /Volumes/OS X Base System "disk5" ejected. Reading Driver Descriptor Map (DDM : 0)... Reading Apple (Apple partition map : 1)... Reading disk image (Apple_HFS : 2)... Elapsed Time: 1m 6.068s

Speed: 135.7Mbytes/sec Savings: 0.0% created: /Volumes/Data/mojave/Mojave.iso.cdr

The ISO will be in your working directory.

Best not to do this on your Desktop or Documents folder if you use iCloud Drive, as it will try to move several GB up to iCloud as soon as you are done.