

# Munki 5 and More

Changes for 2020 and Big Sur

Greg Neagle, Walt Disney Animation Studios





**Munki 5**

software update

unreliable

- After an **attempted install** of a macOS update or Security Update, the Mac boots into "**Boot Recovery Utility**", requiring **manual intervention** to get the machine to start up in macOS.
- Installing/preparing the macOS update or Security Update **hangs indefinitely**.



# Manual macOS updates

3 pending updates **Restart Required**



### Important Apple Updates

There are one or more pending Apple Software Updates that require a restart.

You must install these updates using Software Update in System Preferences.

Skip these updates

Install now

UPDATE ALL



#### macOS Catalina 10.15.6 Update

Apple  
Version

**Restart Required** ◀



#### Totally Legit Apple Update

Apple  
Version 12.0.1

A completely legitimate update from Apple that does not require a restart.

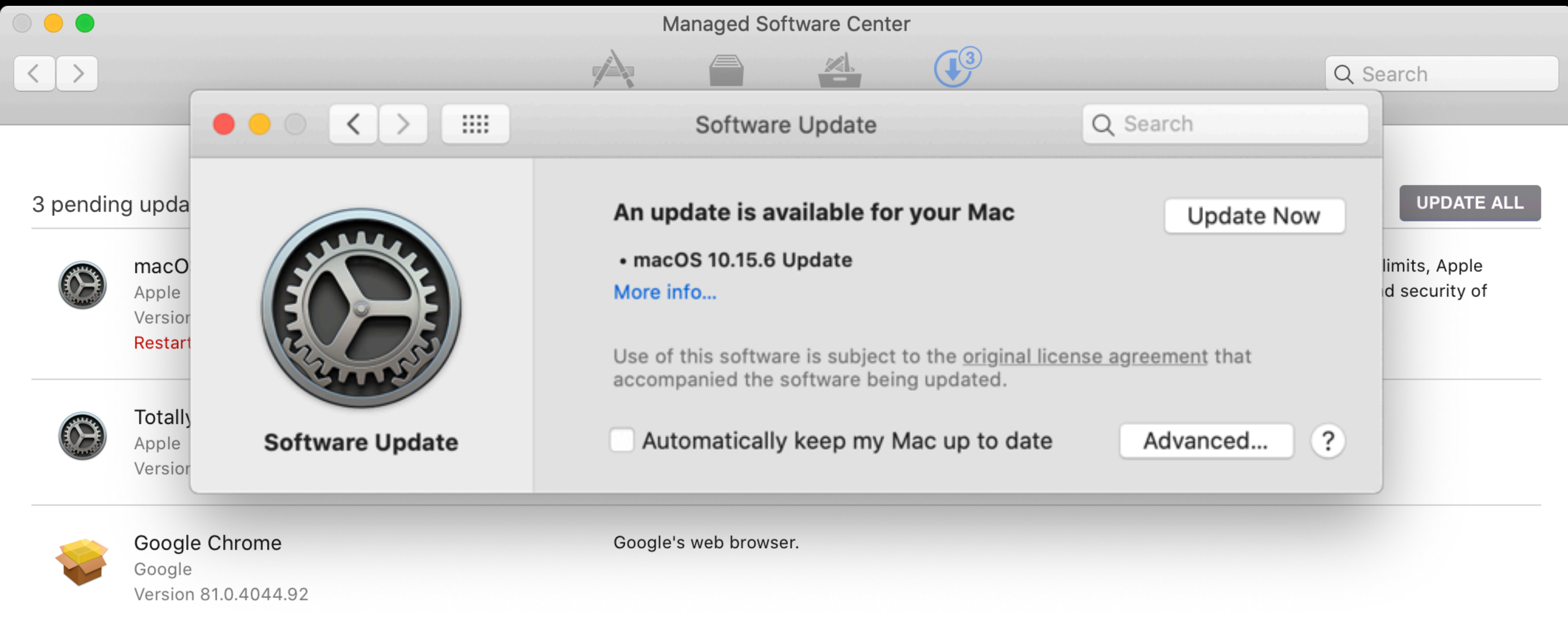


#### Google Chrome

Google  
Version 81.0.4044.92

Google's web browser.

g, Screen Time communications limits, Apple proves the stability, reliability, and security of










<

>

Software Update

Search



Software Update

An update is available for your Mac

• macOS 10.15.6 Update

[More info...](#)

Use of this software is subject to the [original license agreement](#) that accompanied the software being updated.

☐ Automatically keep my Mac up to date

Update Now

Advanced...

?

GamInform

8.5/10

GameSpot

8/10

WCCFTech

8/10

"A fun blend of strategy and tense, palm-sweating action"

9/10

BLOODY DISGUSTING

9/10

GAMESPEW

8.5/10

IGN

8/10

US GAMER

8/10

WCCFTech

8.5/10

THE GAMES MACHINE

9/10

ATTACK OF THE FANBOY

8/10

GOD IS A GEEK

8.5/10

THE GAMES MACHINE

8.5/10

SONS

8.4/10

POWERUP

8/10

GAMERWATCHER

9.5/10

PLAYER.ONE

8/10

GAMERBLOC

THE SURGE 2





# Games on Steam

Browse the newest, top selling and discounted PC games on Steam

# THE SURGE 2

**GameInformer**  
**8.5/10**

**Gamespot**  
**8/10**

WCCFTech  
8/10

**"A fun blend of strategy and tense, palm-sweating action"**





# Munki 5

- **Will not** directly install macOS updates that require a restart
- **Will** nag users to install them manually
- **Cannot** truly "force" an OS update



# Munki 5.1



# Big Sur compatibility





- 
- The Python logo, consisting of two interlocking snakes, one blue and one yellow, is centered in the background. The blue snake is on the left and the yellow snake is on the right, both facing each other.
- Updated Python and PyObjC

- 
- `/usr/bin/softwareupdate` changes



- 
- Big Sur OS installer changes



Configuration profiles



```
bash-3.2# sw_vers
```

```
ProductName: macOS
```

```
ProductVersion: 11.0
```

```
BuildVersion: 20A5364e
```

```
bash-3.2# profiles -IF /tmp/foo.mobileconfig
```

```
profiles tool no longer supports installs. Use System Preferences  
Profiles to add configuration profiles.
```



**Munki 5.2(?)**





Software



Categories



My Items



Updates

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## All items



Adobe Acrobat Reader DC  
Productivity - Adobe

INSTALL



Amazon WorkSpaces  
Remote Access - Amazon  
Installed

REMOVE



Aspera Connect  
Utilities - IBM Corp

INSTALL



Atom  
Text Editors - GitHub, Inc.

INSTALL



Autodesk Maya 2018  
Production - Autodesk

INSTALL



Autodesk Maya 2019  
Production - Autodesk

INSTALL



Autodesk Meshmixer  
Production - Autodesk

INSTALL



Blender  
Production - Blender.org

INSTALL



BlueJeans  
Communication - Blue Jeans Netw...  
Installed

REMOVE



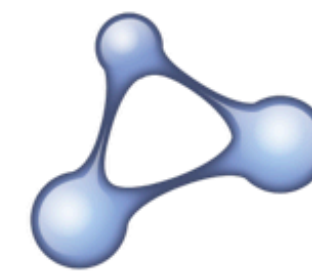
Box Sync  
Cloud Storage - Box

INSTALL



BoxDrive  
Cloud Storage - Box

INSTALL



cineSync  
Production - Cospective

INSTALL

## Quick Links

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Featured

☰  
Top Charts

📁  
Categories

🏷️  
Purchased

⬇️  
Updates

🔍 Search

## Categories



### Business

Antivirus Zap - Virus & A...  
Word Document Writer P...  
iSheets for Google



### Developer Tools

ResolutionTab  
PHP Runner  
CodeRunner 2



### Education

Typing Instructor Platinum  
iRedstone for Minecraft  
Mental Math - Train of T...



### Entertainment

Play+ for Hulu  
Aquarium Live HD+ Scre...  
h+ for Hulu - Streaming ...



### Finance

Fudget: Budget Planner ...  
Banktivity 6: Personal FI...  
Chronicle - Bills & Income



### Games

The Sims™ 2: Super Coll...  
Quiplash  
Call of Duty® 4: Modern ...



### Graphics & Design

Affinity Designer  
Pixelmator Pro  
Pixelmator



### Health & Fitness

BpGrapher - BloodPress...  
iMuscle 2  
PersonalPrescriptionTrac...



### Lifestyle

Wallpapers HD  
Thermo Watch for Nest®  
Backgrounds



### Medical

Essential Anatomy 5  
Muscle Premium - Huma...  
3D Heart & Circulatory P...



### Music

Logic Pro X  
MainStage 3  
djay Pro 2



### News

Hourly News  
News Explorer  
RSS Reader



### Photography

Affinity Photo  
Image Resizer - Resize P...  
Duplicate Photos Fixer Pro



### Productivity

Notability  
BetterSnapTool  
GoodNotes



### Reference

e-Sword X: Bible Study ...  
Atlas for Google Maps  
Bible for YouVersion



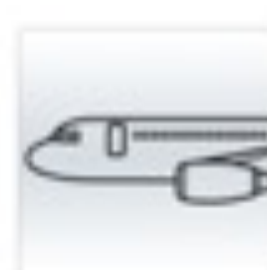
### Social Networking

AppPro for Facebook  
Direct Message for Insta...  
Messenger for Tinder



### Sports

DiverLog  
Sports Calculators  
DiveLogDT



### Travel

Flight status tracker  
Hail, powered by Lyft  
Passenger for Uber



### Utilities

Airmail 3  
The ROBLOX Browser  
Disk Clean Pro



### Video

Final Cut Pro  
Mirror for Samsung TV  
Mirror for Roku



### Weather

Weather Live  
Deluxe Moon HD - Moon...  
Barometer Atmospheric ...

## Quick Links

Welcome Stephen

[Account](#)

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Search

Discover

Arcade

Create

Work

Play

Develop

Categories

Updates

1

GN Greg Neagle

LEARN SOMETHING NEW

# Get Schooled in Science

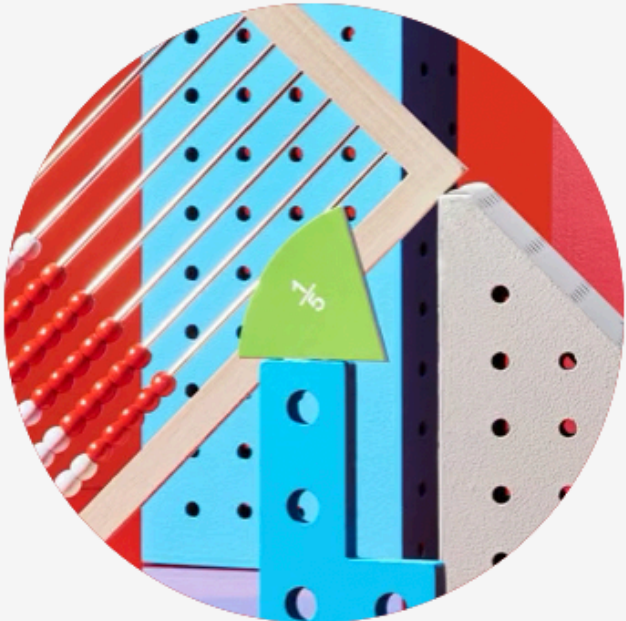
Never stop learning with these apps.



TRY SOMETHING NEW

## 3.14 Great Calculator Apps

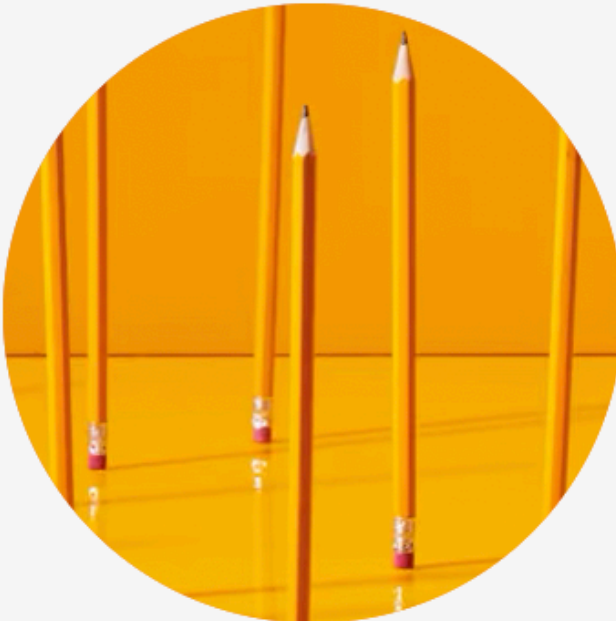
You'll find these standouts infinitely useful.



FEATURED APP

## Take Your Notes to a New Level

Noted syncs your words and recordings.



### Apps and Games We Love Right Now

[See All](#)



Magnetic - Master your lists  
To-do list with super powers

GET

In-App Purchases



Pixelmator Pro  
Pro image editing for everyone

\$27.99



Copied  
Utilities

\$5.99



Spike - Email, Chat, Notes

GET



Talon - Webhooks & More

GET



LiquidText

GET



Groups

New conversation

My groups

Recent groups

Favorite groups

munki-dev

Conversations

99+

Approved

99+

Pending

People

Members

Pending members

Banned users

About

My membership settings

Group settings

Privacy • Terms

Managed Software Center Mojave Design

95 views

steve...@gmail.com

<steve.kueng@gmail.com>

to munki-dev

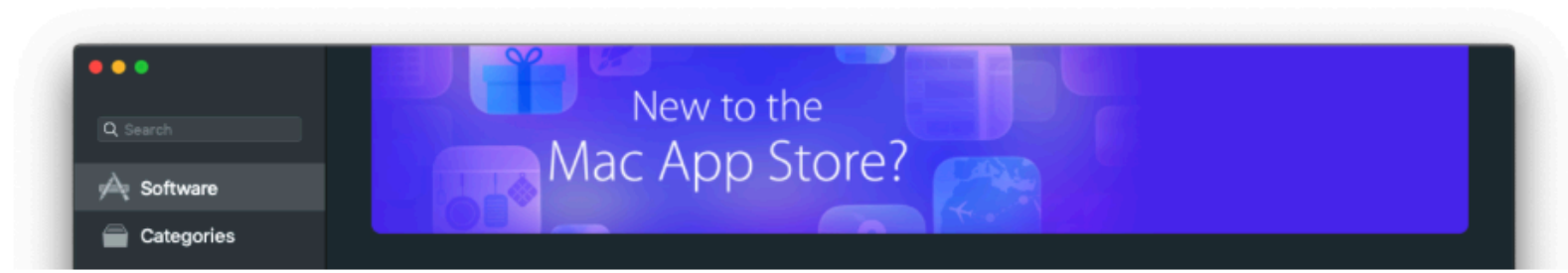
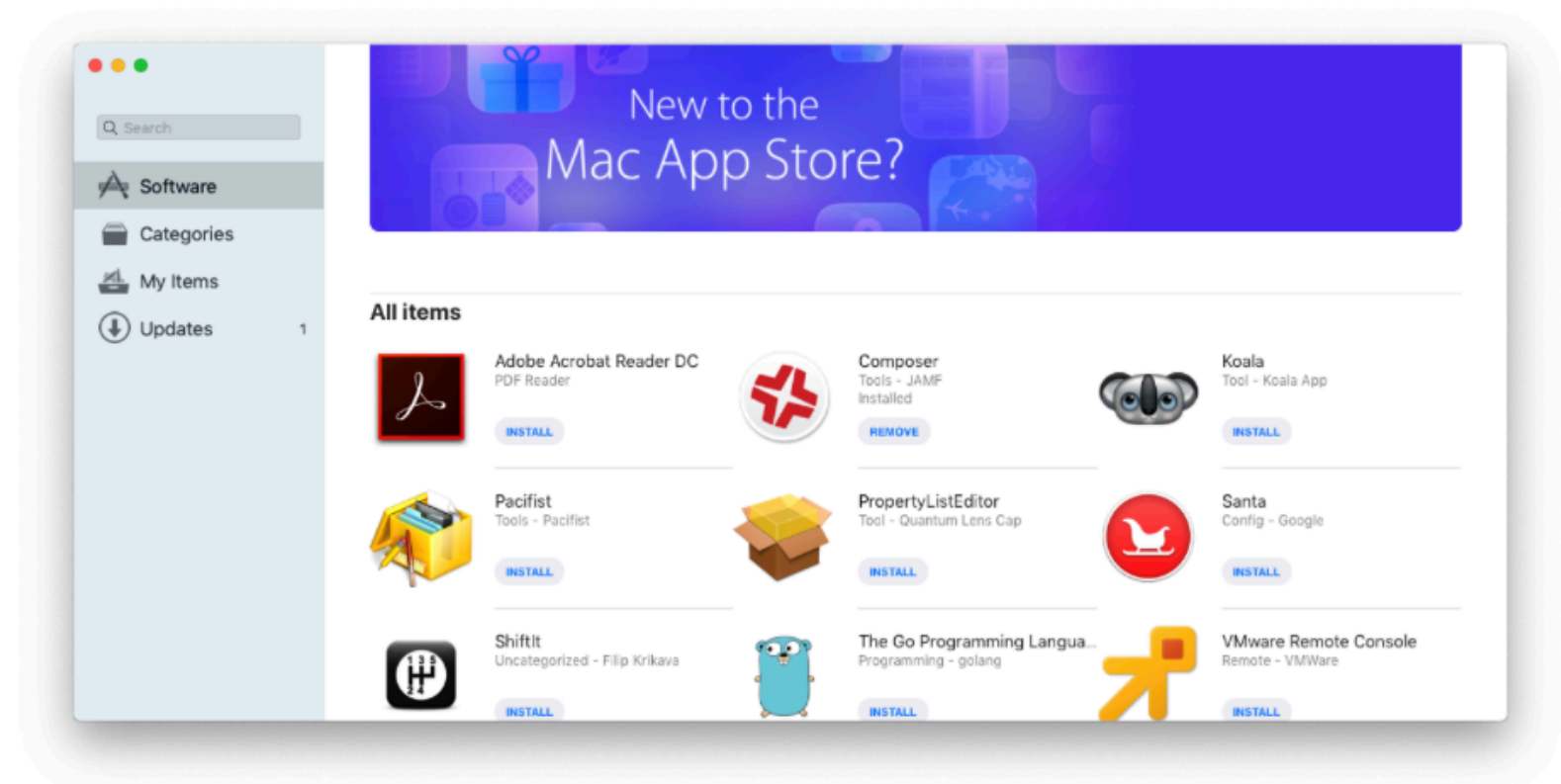
Hi!

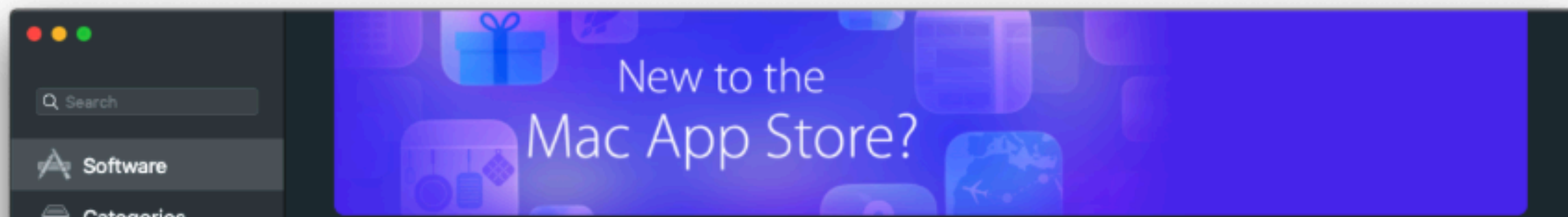
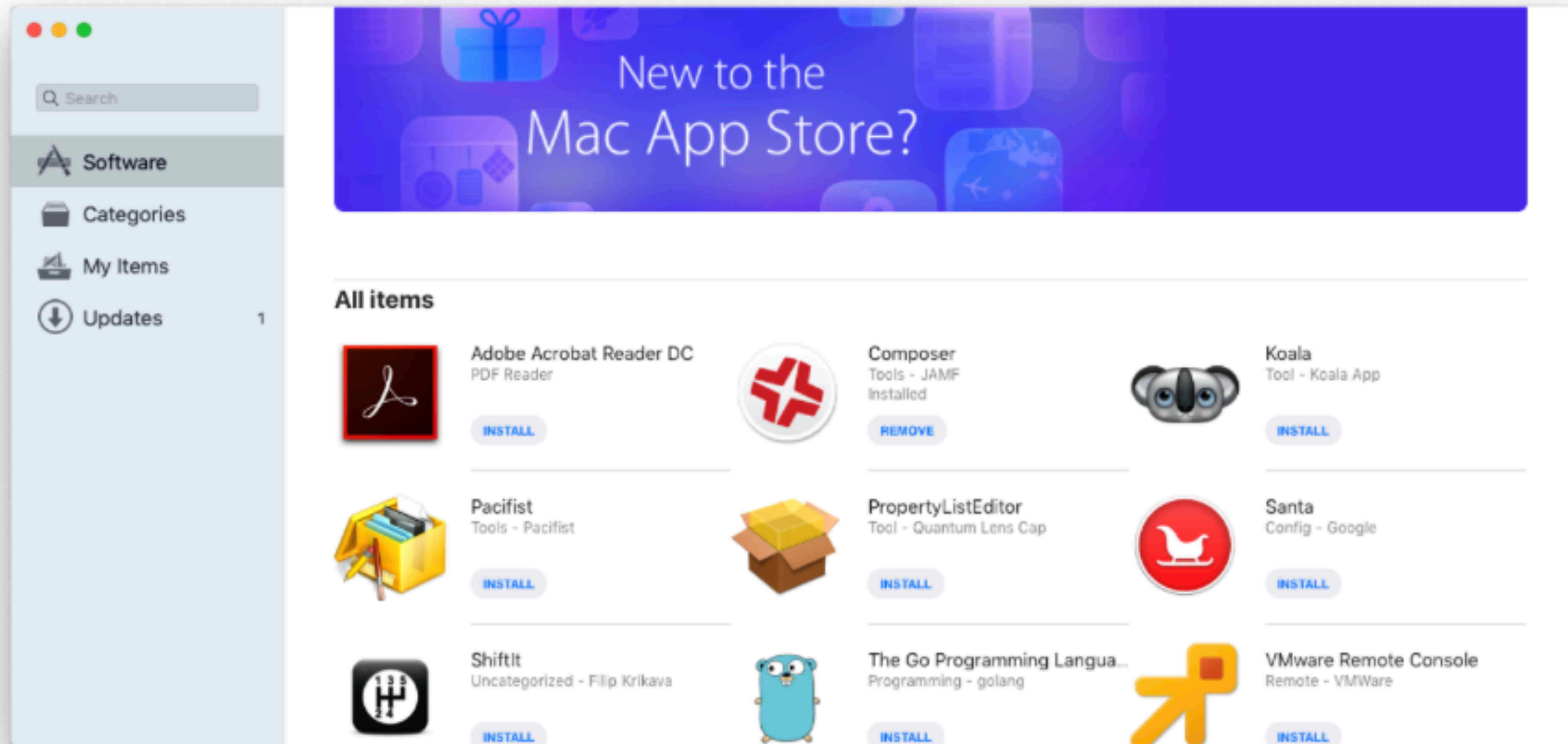
I created a new version of the Managed Software Center Swift app witch looks more like the new Mojave Mac AppStore.

I pushed everything to my github repo (<https://github.com/SteveKueng/munki>) branch **swiftapps**

<https://github.com/SteveKueng/munki/releases/tag/v3.6-alpha>

Oct 18, 2018, 4:28:17 AM







macOS

# Big Sur



Search

Favorites

Home

Nearby

Work

23 min drive

Reveille Coffee Co.

22 min drive

My Guides

Beach Spots

9 places

Best Parks

Lonely Plan

Hiking De

5 places

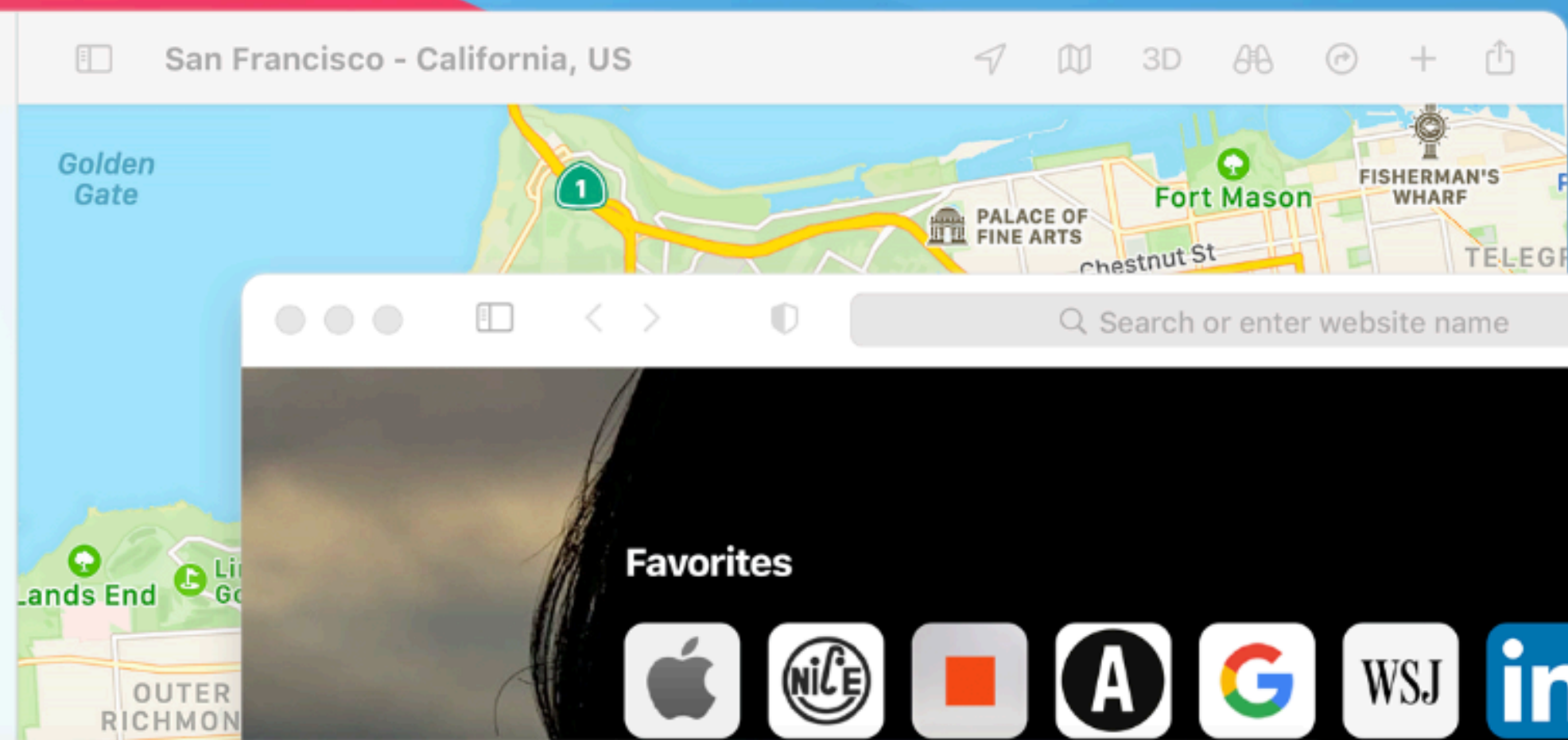
The One T

The Infatua

New York

23 places

Recents



Search or enter website name

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Apple

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A

G

WSJ

LinkedIn

T.

The Design Files

WSJ

LinkedIn

Tait

The Design Files

Ones to Watch

itsnicethat.com/ones...

Ones to Watch

Iceland A Caravan, Caterina and Me

openhouse-magazine....

Search

Home!

Family

Kristen

Amber

Neighborhood

Kevin

Ivy

Janelle

Velosa Studio

Simon

To: Velosa Studio

The driving scenes are working well.

Simon Pickford

I think the new sequence made a huge improvement with the pacing and flow.

Simon, I'd like to finesse the night scenes before color grading.

Amber Spiers

Agreed! The ending is perfect!

Simon Pickford

I think it's really starting to shine.

Super happy to lock this rough cut for our color session.

iMessage

Wi-Fi

Home

Bluetooth

AirDrop

Contacts Only

Keyboard Brightness

AirPlay Display

Do Not Disturb

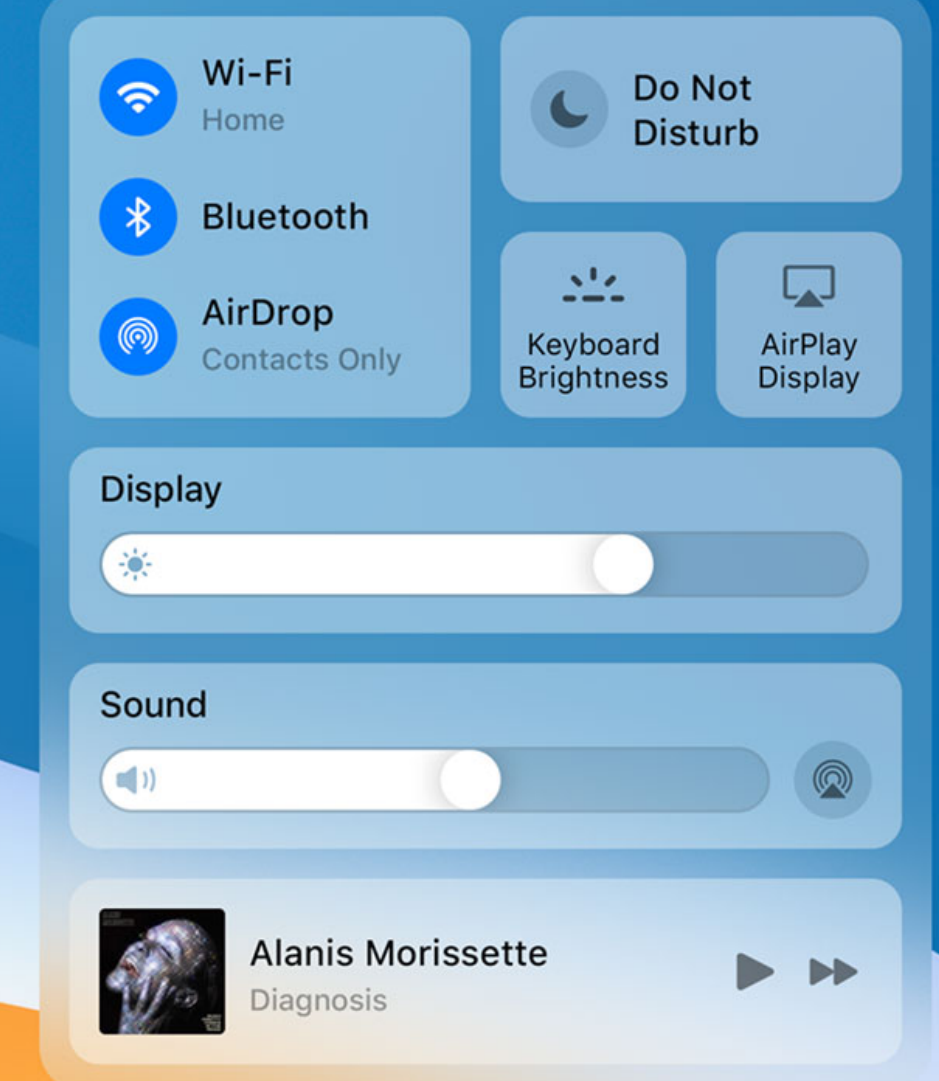
Display

Sound

Alicia Keys

ALICIA - Underdog









All items



Adobe Acrobat Reader DC  
Productivity - Adobe

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Amazon WorkSpaces  
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Autodesk Maya 2018  
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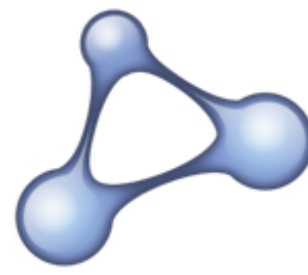
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cineSync  
Production - Cospective

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Production - Blender.org

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Communication - Blue Jeans N...  
Installed

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Box Sync

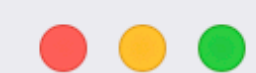


BoxDrive




cineSync






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# Autodesk Meshmixer

[Autodesk](#)

free software for making awesome stuff

INSTALL

To learn how to use Meshmixer visit [mmmanual.com](#) and [meshmixerforum.com](#).  
On first launch, you'll be prompted to Install/Repair the meshmixer folder in your ~/Documents folder.  
This is expected.

## Information

Developer  
Autodesk

Size  
93.9 MB

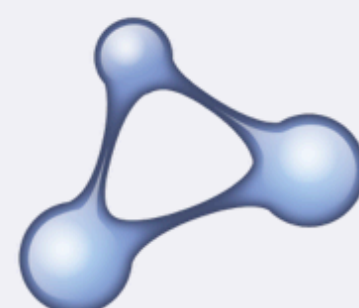
Category  
Production

Version  
3.4

Status  
Not installed

## More in Production

[See All](#)



cineSync  
Production - Cospective

INSTALL



Final Draft 11  
Production - Final Draft  
No licenses available

UNAVAILABLE



Krita  
Production - Krita Foundation

INSTALL

## More by Autodesk

[See All](#)




Autodesk Maya 2018  
Production - Autodesk




Autodesk Maya 2019  
Production - Autodesk



Q Search

 Software

 Categories

 My Items

 Updates 1

# My Items



**BlueJeans**  
Blue Jeans Network  
Version 2.23.0.226 – 36.4 MB  
Installed

REMOVE



**Docker Desktop**  
Docker Inc  
Version 2.3.0.4 – 430.0 MB  
Installed

REMOVE



**HP RGS Receiver for Mac**  
HP  
Version 7.7.1 – 14.1 MB  
Installed

REMOVE



**iMovie**  
Apple  
Version 10.1.15 – 2.0 GB  
Update will be installed ➔

CANCEL



**Keynote**  
Apple  
Version 10.1 – 443.5 MB  
Installed

REMOVE



**Microsoft Edge**  
Microsoft  
Version 85.0.564.51 – 146.0 MB  
Installed

REMOVE



**Microsoft Remote Desktop**  
Microsoft  
Version 10.4.0 – 26.1 MB  
Installed

REMOVE



**Numbers**  
Apple  
Version 10.1 – 231.5 MB  
Installed

REMOVE



**Pages**  
Apple  
Version 10.1 – 313.1 MB  
Installed

REMOVE



**ThinLinc Client**  
Cendio  
Version 4.11.0 – 18.7 MB  
Installed

REMOVE



**Visual Studio Code**  
Microsoft  
Version 1.49.0 – 93.0 MB  
Installed

REMOVE



Search



Software



Categories



My Items



Updates

1

# Updates

1 pending update

UPDATE



iMovie  
Apple  
Version 10.1.15 – 2.0 GB

CANCEL

## Other available updates



Xcode 11  
Apple  
Version 11.7 – 8.2 GB

UPDATE



# Munki 5.2





Tack!