

# SnapDragonAR

Drag and Drop 2D  
Augmented Reality  
Version 1.0.8+



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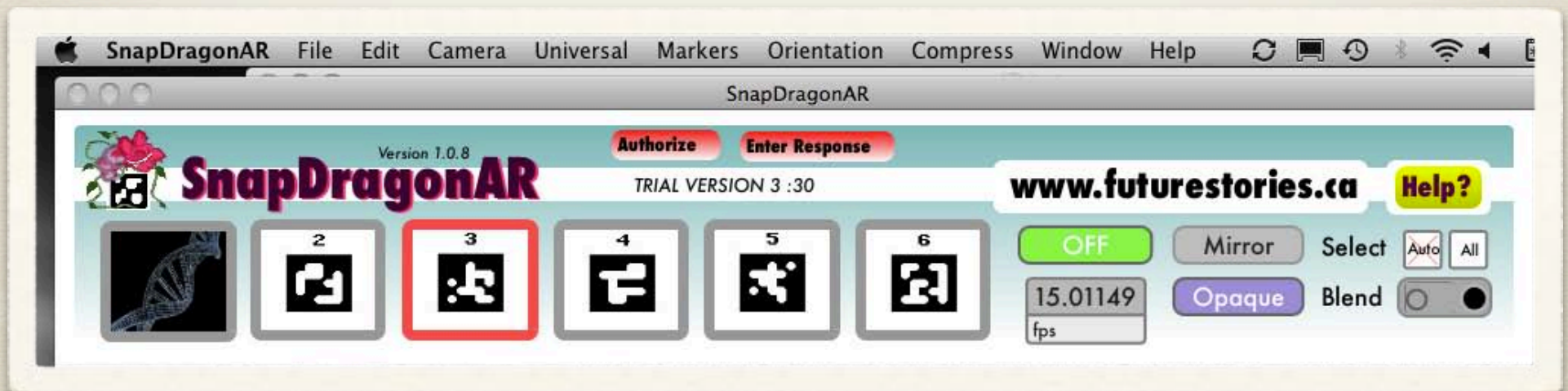


## System Requirements:

- Mac (Intel Processor Only) OS X v 10.5 or higher.
- Webcam (built-in iSight or firewire webcam. Most USB cameras will require 3rd party components to work: see Troubleshooting).
- Working internet connection for Authorization (first time only) or updates.
- Quicktime version 7.

# Trial Version

- \* The free trial of SnapDragonAR is a 6 marker version. You have five minutes to try out many of the core features that SnapDragonAR has to offer before it needs to be restarted.
- \* Even compress videos for free in the trial version!





# Augmented Reality for Everyone.

SnapDragonAR makes it easy...

1. Open SnapDragonAR.
2. Click on Help. Print the markers you want to use.
3. Turn on the Camera (⌘ R).
4. Drag and Drop your favourite Movies and Images into the markers on your screen (even directly from iPhoto).

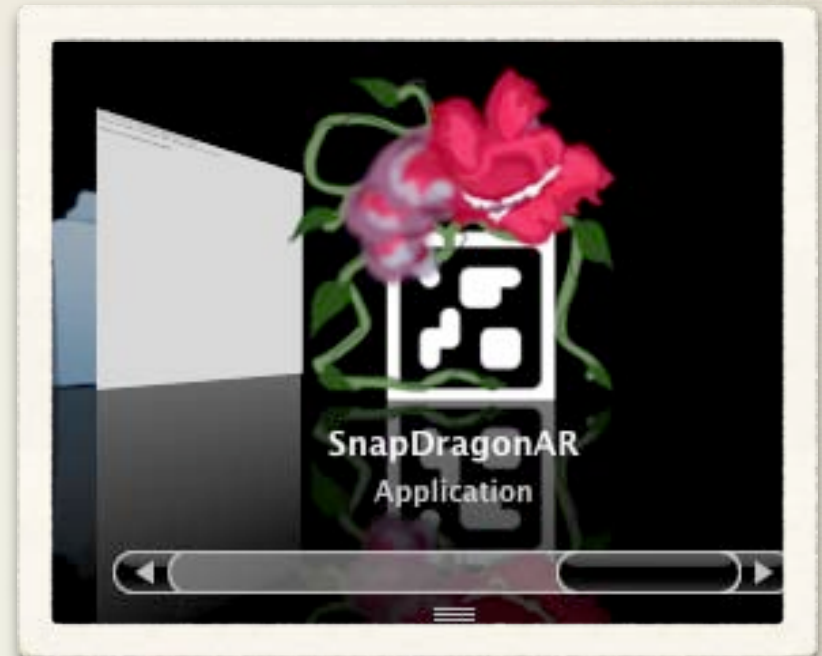
When you hold up the marker to the camera you will see your media clip attached to the marker.

Bring your favourite clips to life!



# Open the Application

- \* This program is designed to run on intel Mac computers only (OS X 10.5 or later).
- \* You will need to connect a USB or Firewire webcam if your mac does not have a built in iSight. If the camera isn't recognized right away you may need to restart the application.

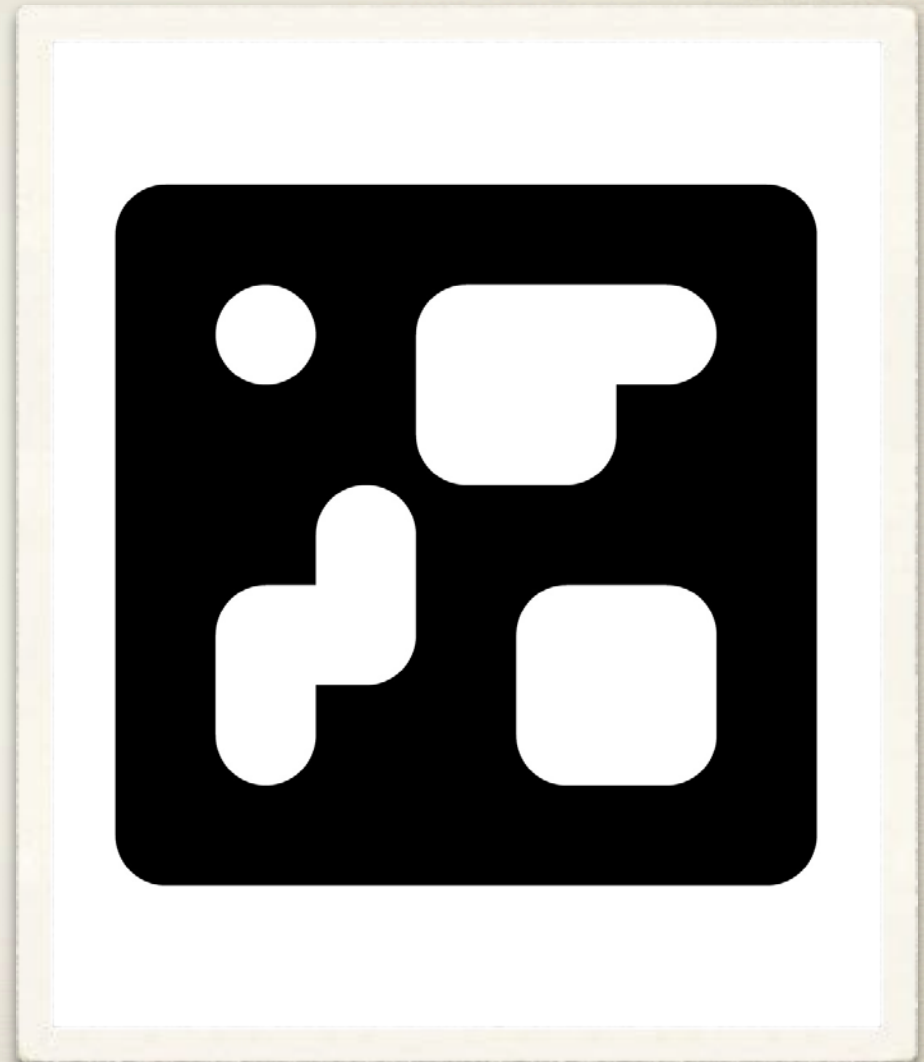


# Print Your Markers

\* Click



\* The appendix to this .pdf document contains all the markers you need to run the software, simply print them off ensuring there is a thick white border around the black square.





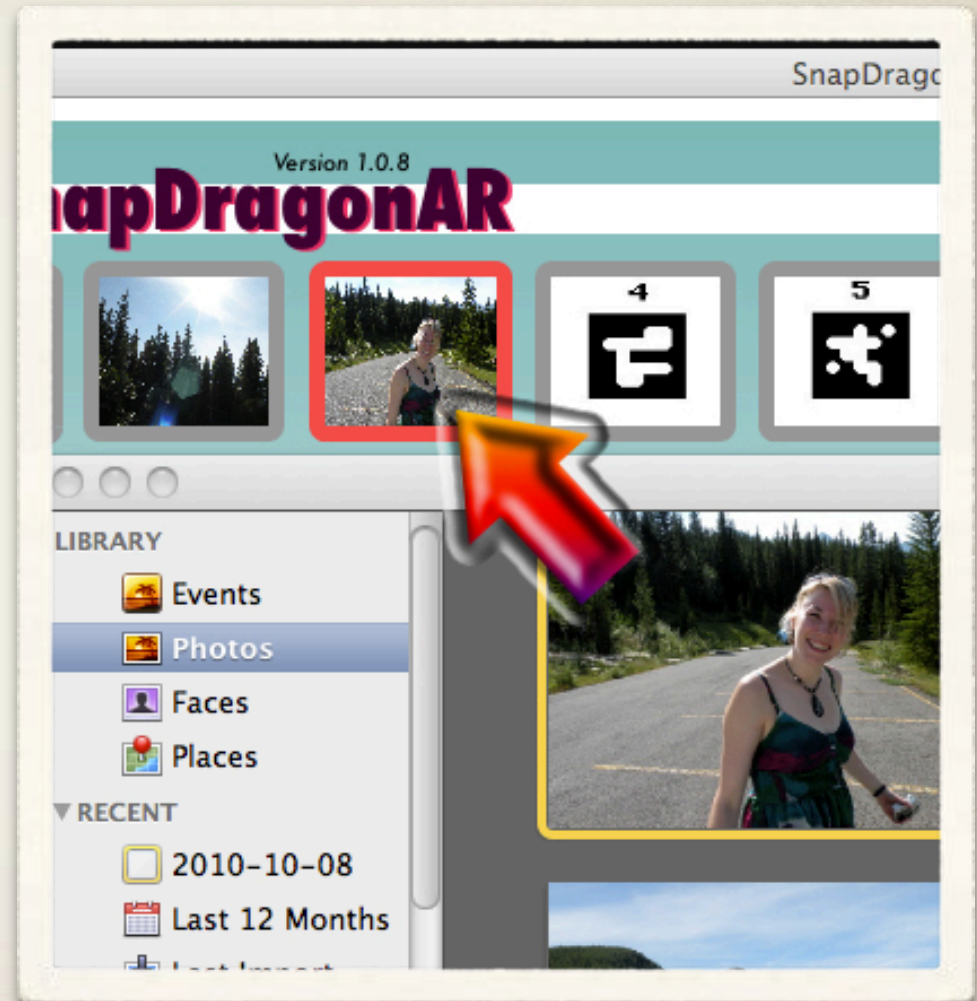
# Turn on the Camera

- \* To turn on your camera:
  - \* Click 'ON'
  - \* *or* ⌘R
  - \* *or* Camera Menu>Run.
- \* Be sure any external camera is plugged in before starting the app and that your webcam isn't in use by another application.



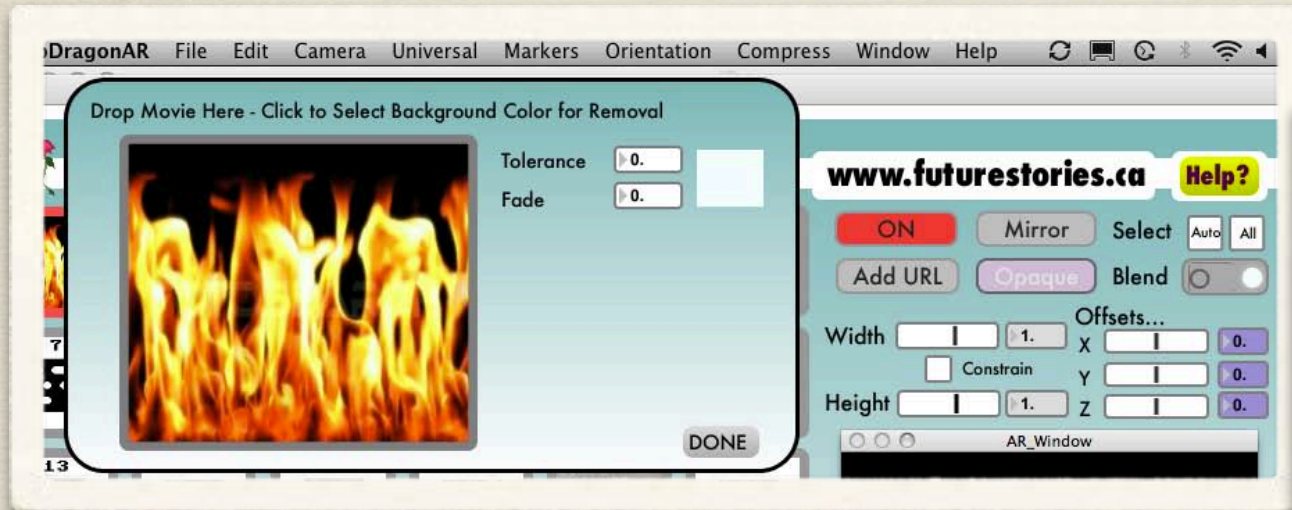
# Drag and Drop

- \* Dragging and dropping quicktime movies or images into the drop zones attaches them to the corresponding markers. The video will play when visible and the sound will increase and decrease based on the markers distance from the camera. You can drag objects directly from iPhoto!



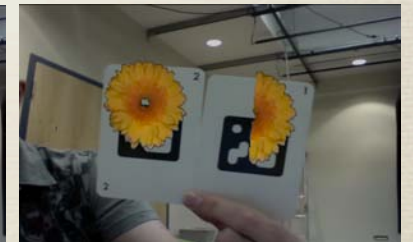
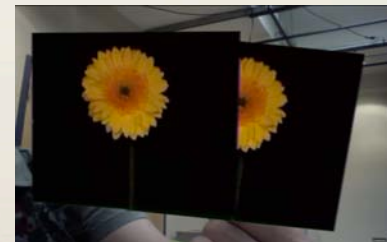


# Green Screen your Videos



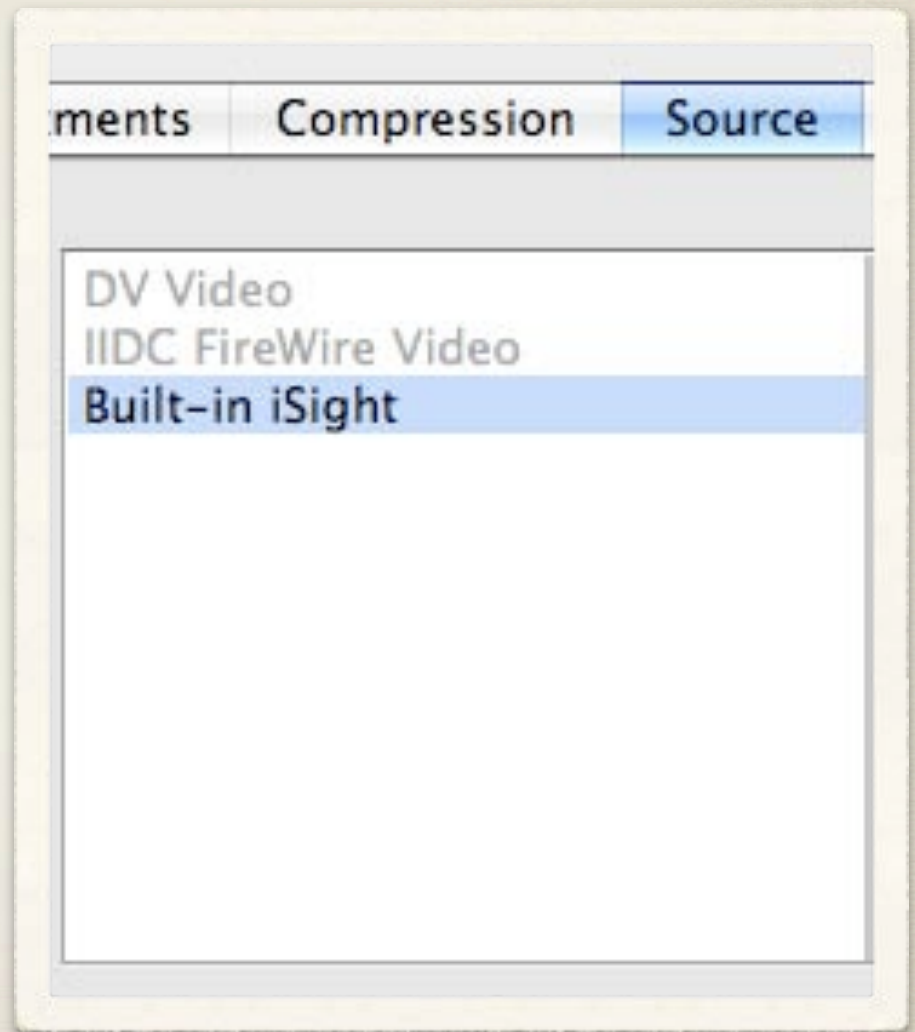
1. Drop in a video.
2. Click on the Alpha button to make a colour transparent.
3. Choose the colour to remove by clicking on the preview video.
4. Adjust the fade and tolerance to achieve the proper transparency.
5. Adjust and reopen using the Blend controls.

\* NOTE: This effect is created using chromakey. You may notice artifacts or “blank space” where the videos overlap.



# To Change the Camera

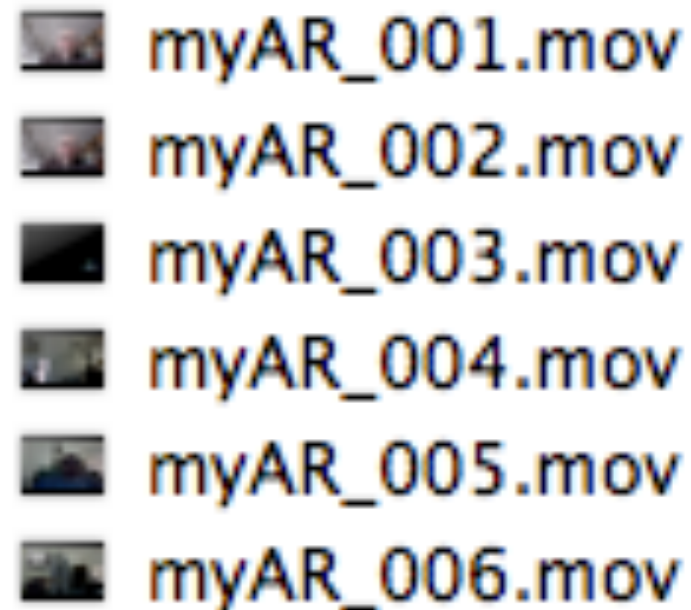
- \* Under the Camera Menu, click 'Settings...' and a quicktime Preview window will open. Under the Source tab you will be able to select which camera to use as an input device.





# Record your Video

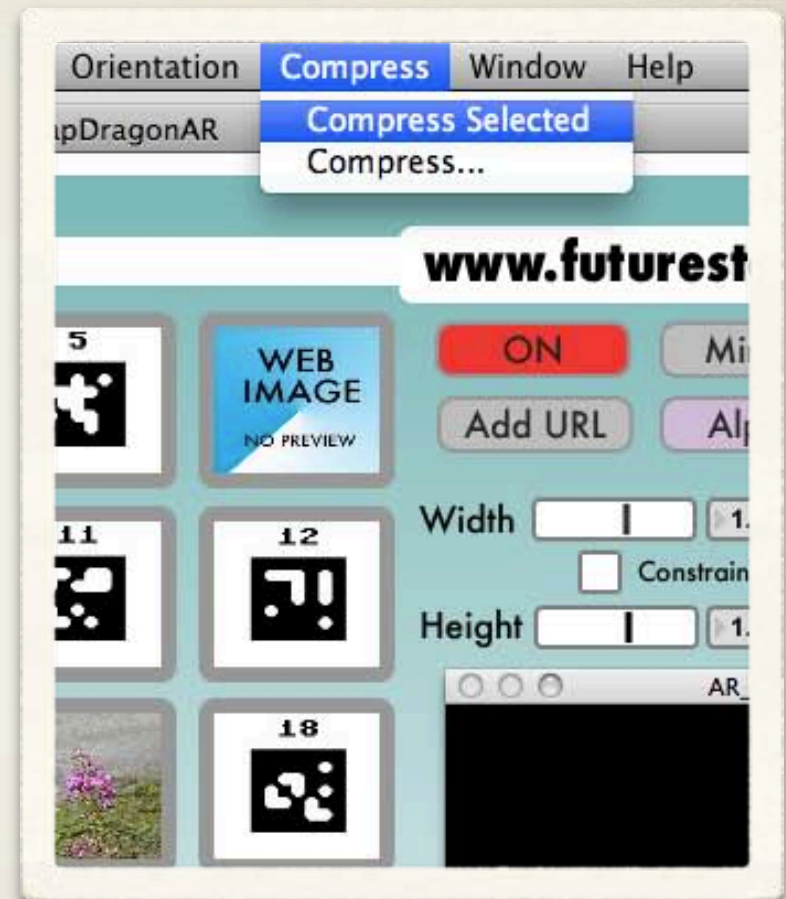
- \* Just tap the spacebar and screen capture your video (audio is recorded through the computers microphone). Tap the spacebar again to stop.
- \* Your video will be named and ordered:  
myAR\_001.mov



myAR\_001.mov  
myAR\_002.mov  
myAR\_003.mov  
myAR\_004.mov  
myAR\_005.mov  
myAR\_006.mov

# Compress your Movies

- \* Compress any or all of your movies right in SnapDragonAR! No third-party software is necessary.
- \* Compressed Movies are saved to Applications>SnapDragon>Library
- \* Your project will automatically be updated with the optimized file in your Library





# Ready to Purchase? Unlock these amazing features...

- \* No timeout, No menus in fullscreen mode.
- \* Use up to 30 markers.
- \* Scale up your videos and offset them beyond the marker boundaries.
- \* Save and Open Projects.



# Before you Authorize...

When you are ready to purchase SnapDragonAR, you will be asked to authorize the software to unlock all of its features. You may authorize the software before you purchase.

**IMPORTANT:** Each copy of SnapDragonAR is signed a specific computer so please send in the authorization code generated on the computer you wish to sign. Please see our FAQ's or Problem's Authorizing? at the end of this manual.



# How to Purchase & Authorize

Visit <http://futurestories.ca/snapdragonar/>

Click on the Buy Now PayPal button.

You will be taken to the WE SAVE LIVES express checkout PayPal page. Enter Payment.



In SnapDragonAR: Click the authorize button and enter the SAME e-mail address you used for your PayPal Purchase.

If automatic signing doesn't work: Choose File Menu> Authorize by Email... and send the email to [info@futurestories.ca](mailto:info@futurestories.ca)

Oops! Mac Mail client not configured? Choose File Menu> Authorize Manually (webmail)... copy/paste the code in the email to [info@futurestories.ca](mailto:info@futurestories.ca)



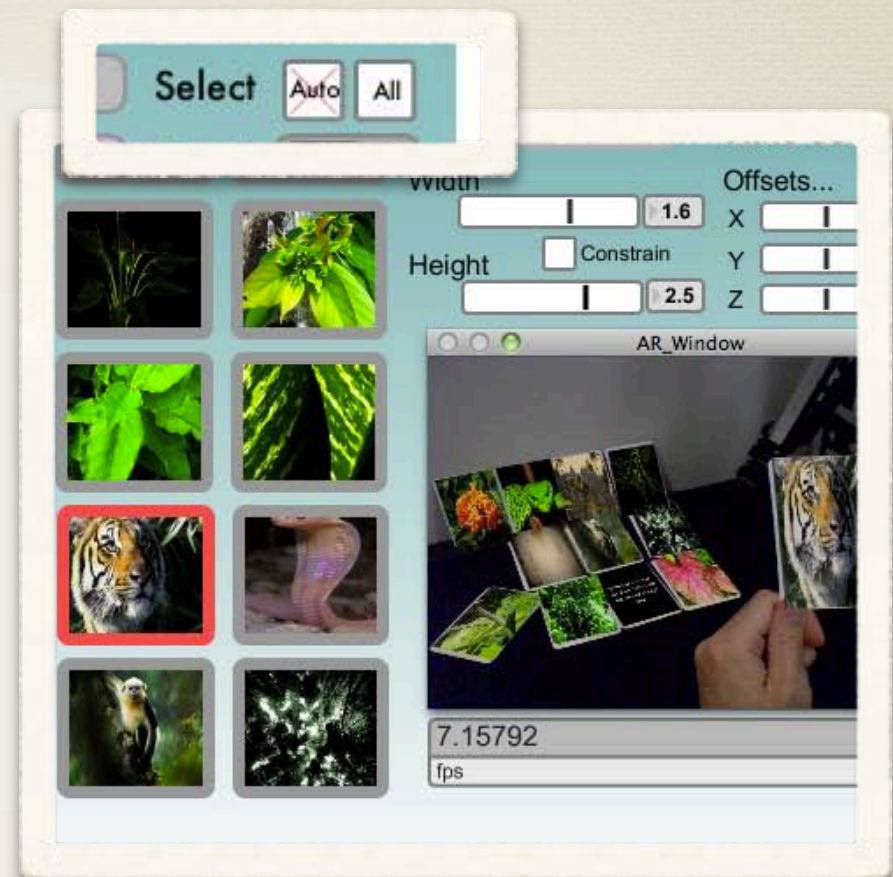
# Save Your Progress

- \* You can save all of your progress to a project file.
- \* Select “Save” from the file menu and choose a name for your file. To reload those settings just choose “open” and select your file from the dialog. NOTE: if your movies have changed locations since you last opened your project you will need to add them again and re-save your project.
- \* When you load from a previous project you clear the current settings, make sure you save before you do!



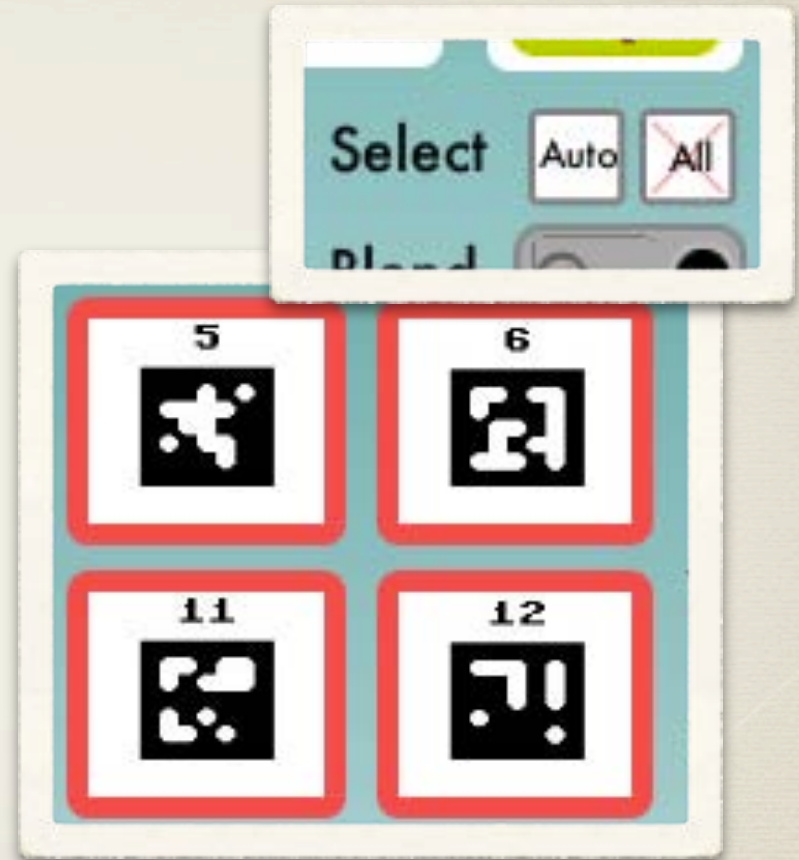
# Auto-Select: how does it work?

- \* Auto-select will tell you which marker the camera is looking at by highlighting it in red. If multiple markers are in the scene, the one that appears largest to the camera turns red. If you want to manually select one of the markers, just click on it, and auto select will turn off. Click the Auto-select toggle to turn it back on.



# Select All

\* Select all allows you to scale all markers to the same dimensions at once, but because it does so in real time it may be a little slow to present the change. It allows you to quickly make major changes to all the planes. But be careful, if you select all and start changing the size you will overwrite the sizes you've already changed.





# From the Web

- \* Hosting movies and images on the web is a great way to share your project. Select the marker you wish to use, then click Add URL.



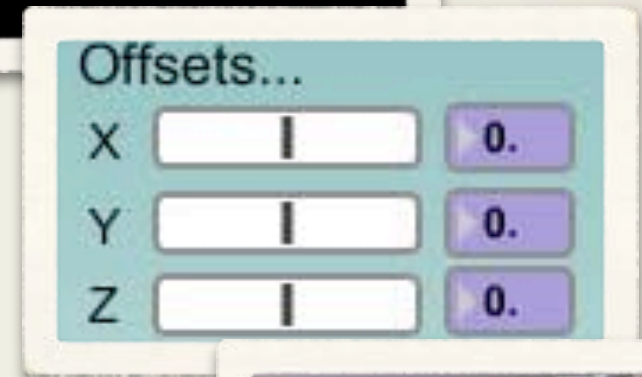
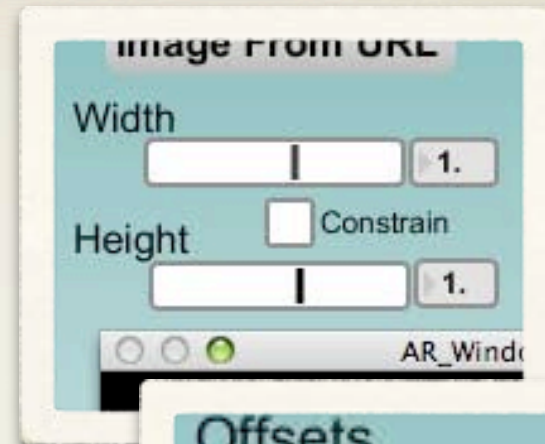
- \* Cut and paste the full URL from your browser of the .mov or .jpg hosted on the web. You can even read from an RTSP link! (version 1.0.8+)

eg. <http://www.example.ca/images/not-a-real.jpg>

eg. <rtsp://www.example.ca/picture/not-a-real.mov>

# To Change Media Dimensions

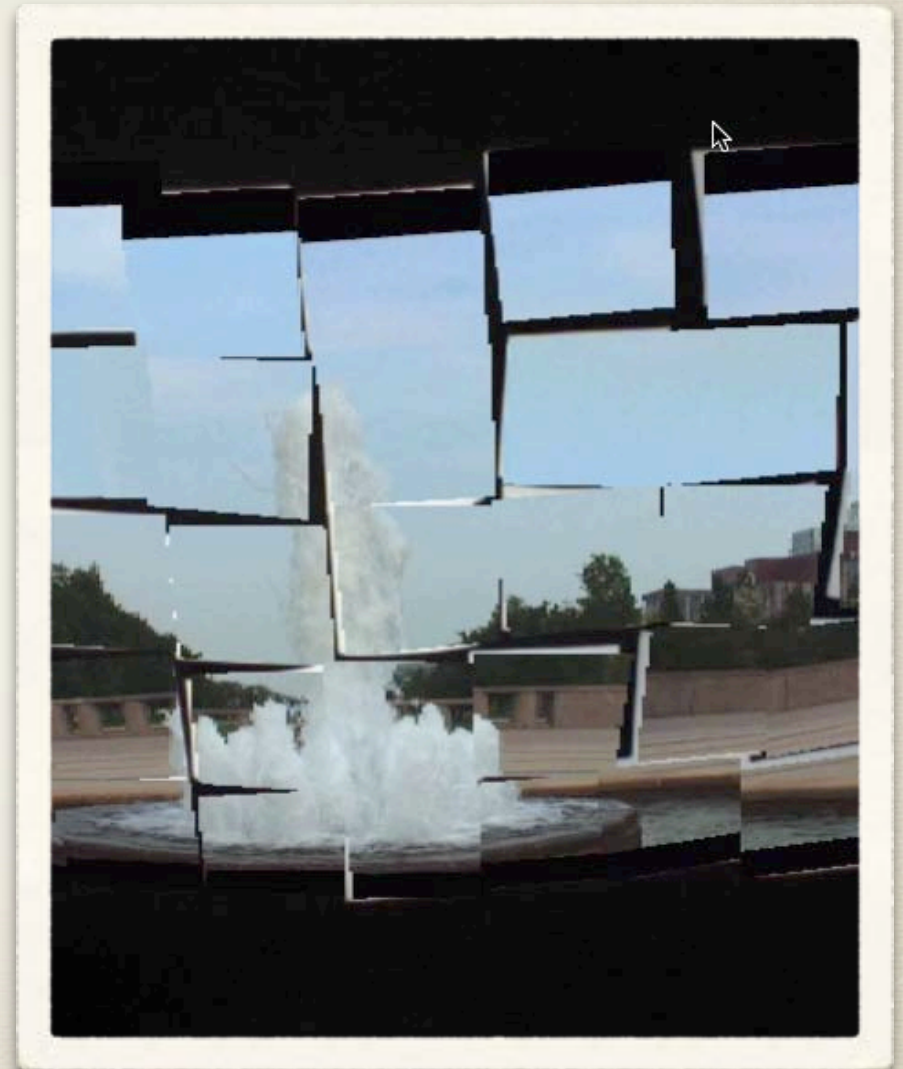
- \* You can adjust the size of the image relative to the marker in real time by changing the Width and Height boxes.
- \* You can also adjust the X, Y and Z to control how far the media clips sits offset relative to the marker.
- \* NOTE: the further you move the video from the centre the less stable the tracking may appear.





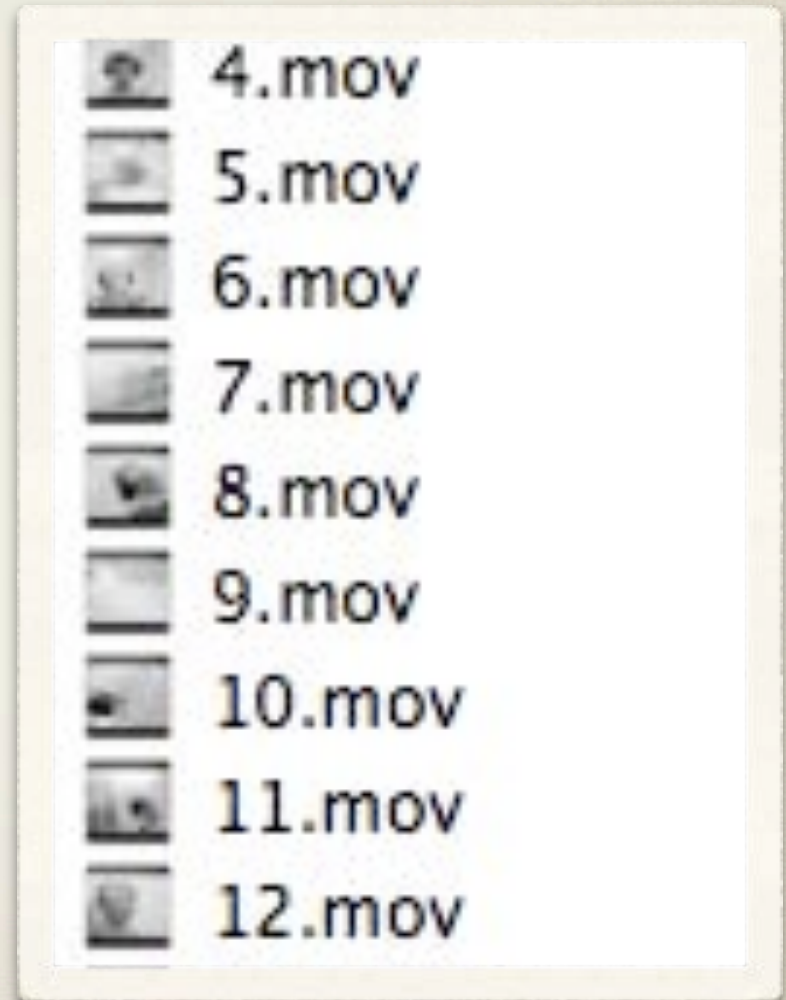
# Optimizing your Videos for Playback

- \* When using multiple files, the right size and compression are important. Try compressing or re-exporting your movies as follows:  
mjpegA, with streaming, less error correction turned on, 320X240 or 160x120, 12fps, audio with aac 24hz.



# “Automagically” load

- \* You can also choose to automatically load movies into the application simply by naming your movies 1.mov to 30.mov. If you place the movies in the SnapDragon>Library Folder it will automatically load all 30 movies to their corresponding markers when you open the application.





# Trouble Shooting

- \* **Camera Doesn't Work** - Check 'Settings...' > Source to see if your camera is recognized. You may need to restart SnapDragonAR after plugging in a camera. If your USB camera does not have Mac specific drivers you may need to install Macam or other 3rd party components.
- \* **Videos aren't loading into Project anymore** - SnapDragonAR looks for the absolute paths of your image files. If have moved your source image files you will have to open the project and re-add them.
- \* **Images Are Too Pixellated** - Try the following: Run at medium or High Quality (Camera Menu: 800x600 or 1024 x 768), or try changing the quality at which you are compressing your images or videos. Still images will always look more pixellated than videos due to the nature of the compression.
- \* **Playback is Slow** - This is a processor intensive app. Try closing other applications. We recommend using high resolution playback on a Macbook Pro/Mac Pro. Integrated graphics cards will mean slower playback, see "Hints for Smoother Playback".

# Problems Authorizing?

\* Please confirm the following:

1. Was the response ONLY used on the same machine that the authorization code was generated on?
2. Did you run the installer while logged in as an administrator?
3. Does your hard drive have the default name (Macintosh HD/)?
4. Is the Application installed at Macintosh HD:/Application/SnapDragon/SnapDragonAR?

More at: <http://www.futurestories.ca/snapdragonar/faq.html>



# Known Issues v1.0.8

- \* Audio Recording is through external Microphone only.
- \* Screen Capture is better recorded in fullscreen and will appear pixellated if recorded while video screen is small.
- \* No Preview Available for Web Images Loaded in to Markers.
- \* The video transparency is “green screen”, therefore you will likely notice artifacts or blank space where the videos overlap.





More info at:

[www.futurestories.ca](http://www.futurestories.ca) or [www.futurestories.ca/snapdragonar/](http://www.futurestories.ca/snapdragonar/)



