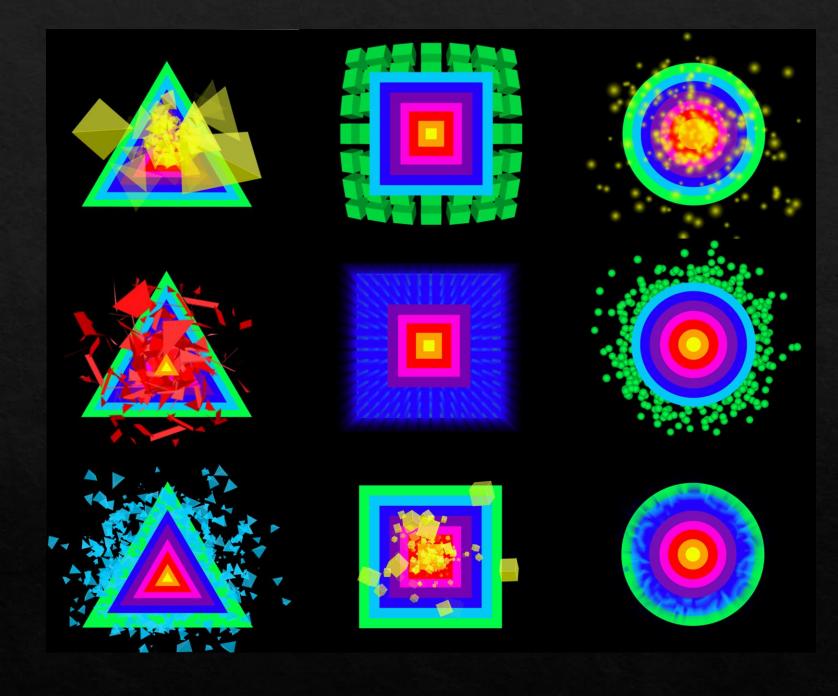


Video Design

Jelena Rubil

1 session



Technical Proficiency



Video cues and troubleshooting technical issues during rehearsals and performances to ensure seamless execution of video content.

Equipment







Equipment







High-quality video footage

Frame rate is the measurement of how quickly a number of frames appears within a second

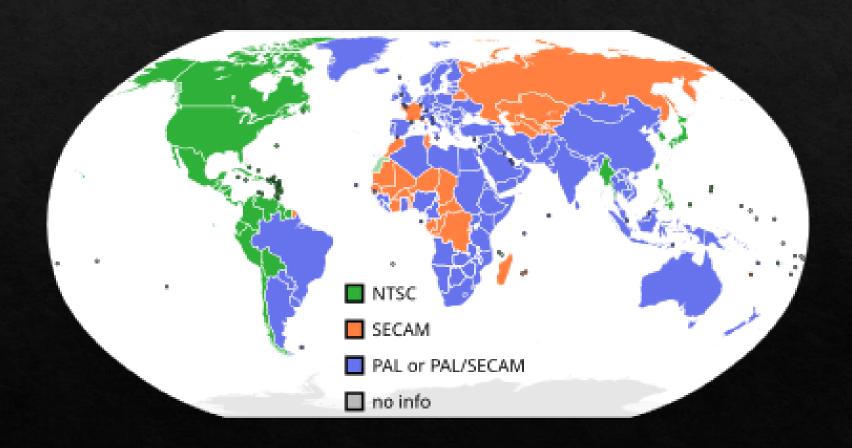
PAL video is composite video because luminance (luma, monochrome image) and chrominance (chroma, colour applied to the monochrome image) are transmitted together as one signal.

PAL is an abbreviation for Phase Alternate Line. This is the video format standard used in many European countries. A PAL picture is made up of 625 interlaced lines and is displayed at a rate of 25 frames per second.

SECAM is an abbreviation for Sequential Color and Memory. This video format is used in many Eastern countries such as the USSR, China, Pakistan, France, and a few others. Like PAL, a SECAM picture is also made up of 625 interlaced lines and is displayed at a rate of 25 frames per second. However, the way SECAM processes the color information, it is not compatible with the PAL video format standard.

NTSC is an abbreviation for National Television Standards Committee, named for the group that originally developed the black & white and subsequently color television system that is used in the United States, Japan and many other countries. An NTSC picture is made up of 525 interlaced lines and is displayed at a rate of 29.97 frames per second.

High-quality video footage



High-quality video footage

A video file format is a type of file format for storing digital video data on a computer system.

Video file format and codec basics

Because video files can be large, programs called codecs were developed to make them easier to store and share. Codecs encode data to compress it for storing and sharing. Then they decode that data to decompress it for viewing and editing. The most common codec for video compression is **H.264**.

Audio file formats or file extensions are the containers or wrappers for these codecs. As with lossy audio file formats, most video formats lose data in compression. Which format you choose depends on the balance you want to strike between quality and ease of use.

High-quality video footage

A video file format is a type of file format for storing digital video data on a computer system. MP4 (MPEG-4 Part 14) is the most common type of video file format. Apple's preferred format, MP4 can play on most other devices as well. It uses the MPEG-4 encoding algorithm to store video and audio files and text, but it offers lower definition than some others. MP4 works well for videos posted on YouTube, Facebook, Twitter, and Instagram.

MOV (QuickTime Movie) stores high-quality video, audio, and effects, but these files tend to be quite large. Developed for QuickTime Player by Apple, MOV files use MPEG-4 encoding to play in QuickTime for Windows. MOV is supported by Facebook and YouTube, and it works well for TV viewing.

WMV (Windows Media Viewer) files offer good video quality and large file size like MOV. Microsoft developed WMV for Windows Media Player. YouTube supports WMV, and Apple users can view these videos, but they must download Windows Media Player for Apple. Keep in mind you can't select your own <u>aspect ratio</u> in WMV.

AVI (Audio Video Interleave) works with nearly every web browser on Windows, Mac, and Linux machines. Developed by Microsoft, AVI offers the highest quality but also large file sizes. It is supported by YouTube and works well for TV viewing.

High-quality video footage

What is video bitrate?

Every second of video is packed with digital information. It could be a lot of information, like the high image quality of 4K video on physical media. Or less information, such as live streaming social media video from a phone with lower video and audio quality. Those two types of videos have a very different amount of data. The amount of information per second in video is known as bitrate.

"Bitrate refers to depth of information, whether in video or audio.

Bitrate is distinct from other measurements of video quality such as frame rate, resolution, or video format. Those factors represent specific things about the nature of the footage, such as frames per second or how large the image is. Bitrate is more fundamental.

High-quality video footage

What is video bitrate?

Bitrate encoding can vary a good deal given types of footage. On the **low end**, **720p** is the type of video common in older HD televisions. 720p has a bitrate of about 6.5Mbps at a standard frame rate (24–30 frames per second) or 9.5Mbps on a high frame rate (48–60fps).

High-resolution 4K video encodes at 2160p and has a bitrate between 44 and 56Mbps on a low frame rate and 65 to 85Mbps with a high frame rate. That higher quality footage will look great, but the level of quality and usability are often at odds with each other.

Video editing software



Final cut



Adobe Premier



Adobe After Effects

Video editing software

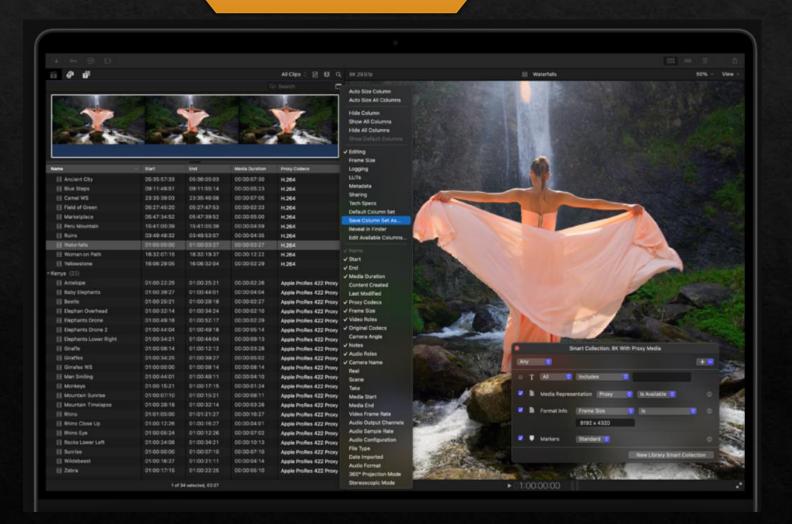
https://www.apple.com/final-cut-pro/





Video editing software





Video editing software





Video editing software



Final cut



Video editing software





Video editing software

TUTORIALS



https://www.youtube.com/watch?v=L3bZ-ETKZ8U

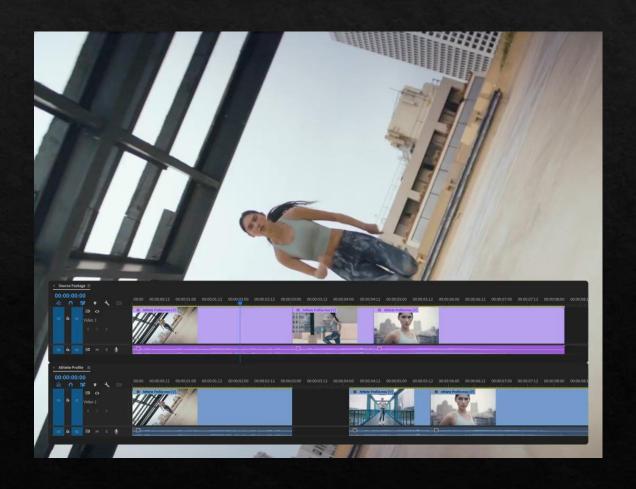
https://www.youtube.com/watch?v=xmNrB2HpIBs

https://www.youtube.com/watch?v=NQEDVGv1wRE

Video editing software

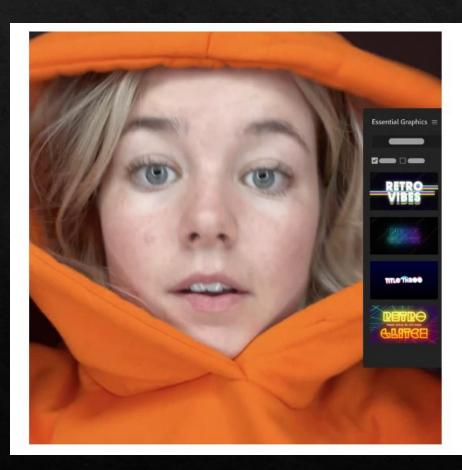
https://www.adobe.com/products/premiere.html





Video editing software

Pr



TITLES

Create animated titles.

Design polished, professional-quality titles, captions, and graphics fast with templates. Customize them to fit the feel of your video directly inside Premiere Pro.

Video editing software

Pr

COLOR

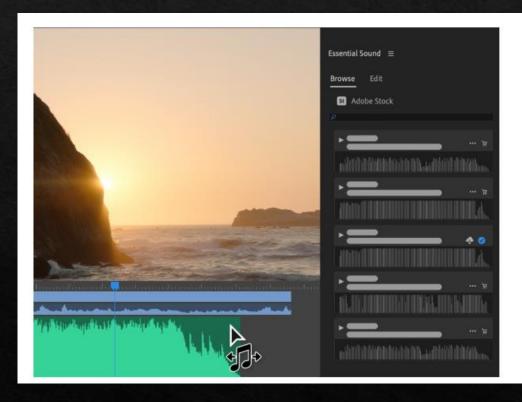
Balance color and set the tone.

Get the right look for your video with powerful color correction and grading tools. Balance color fast with AI, use professional color wheels and curve controls, and check your results with built-in video scopes.



Video editing software

Pr



AUDIO

Mix audio for a memorable soundtrack.

Reduce noise and enhance dialogue with pro audio tools, and add advanced effects as you master sound design.

Browse music tracks, use AI to auto-fit them to your clips, and license them — all within Premiere Pro.

Video editing software

TUTORIALS



https://www.youtube.com/watch?v=yO52Tx60Keg

https://www.youtube.com/watch?v=ihHwLflg_Dk

https://www.youtube.com/watch?v=OQhhtOf4Cd0

https://creativecloud.adobe.com/learn/premiere-pro/web/export-video-share-social-media

Video editing software

https://www.adobe.com/products/aftereffects.htm





MOTION DESIGN

Set text and graphics in motion.

Animate still images and illustrations to create striking motion graphics. Add motion to text for cinematic title sequences and simple credit rolls. Work faster with presets or turn your unique vision into reality with power animation tools.

Video editing software



3D ANIMATIONS

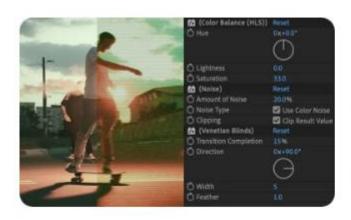
Design dynamic 3D animations.

Bring dimension into your videos in a true 3D workspace right inside After Effects. Get the lighting and shading just right for a realistic look. Or combine 2D and 3D images to create any scene you can imagine.



Video editing software







Speed up projects with presets.

Design social videos and more, fast. Choose from hundreds of high-quality presets, and then customize them to fit your unique vision.

Get advanced color support.

Work natively in any color space and simplify your Academy Color Encoding System (ACES) workflow with OpenColorlO (OCIO) integration.

Video editing software

TUTORIALS

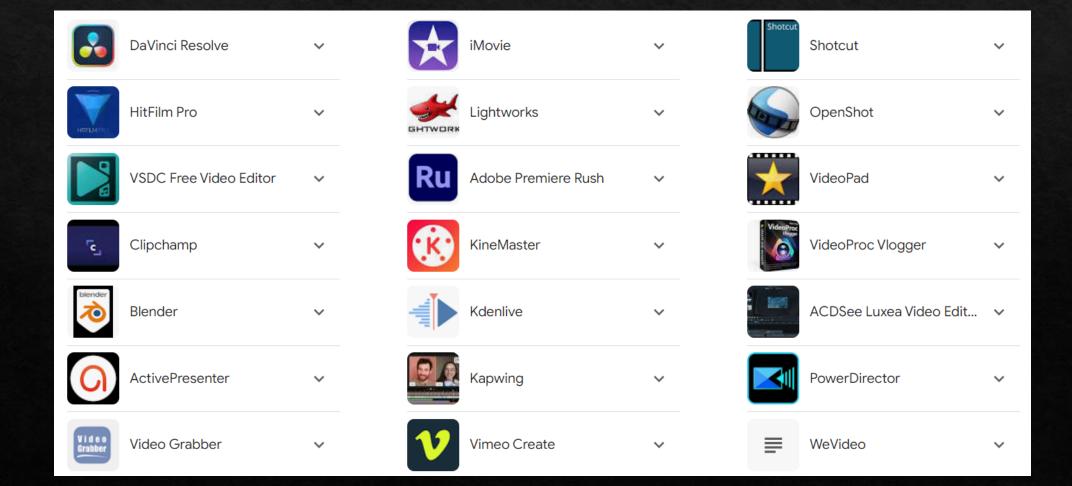


https://www.youtube.com/watch?v=hb2bbfiNBXA

https://www.youtube.com/watch?v=jFbRZZmMW7c

https://www.youtube.com/watch?v=yO52Tx60Keg

Free video editing software



Free video editing software

DaVinci Resolve is a proprietary color grading, color correction, visual effects, and audio post-production video editing application for macOS, Windows, and Linux





Free video editing software

TUTORIALS

https://www.youtube.com/watch?v=g52gP_bR65E

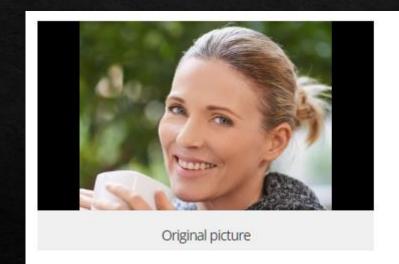
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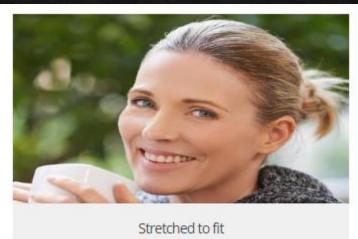


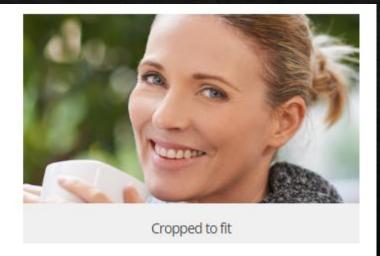
The aspect ratio is the ratio between the width and the height of a display. It defines its overall shape, and it is usually presented as W:H (where W is the width, and H is the height).

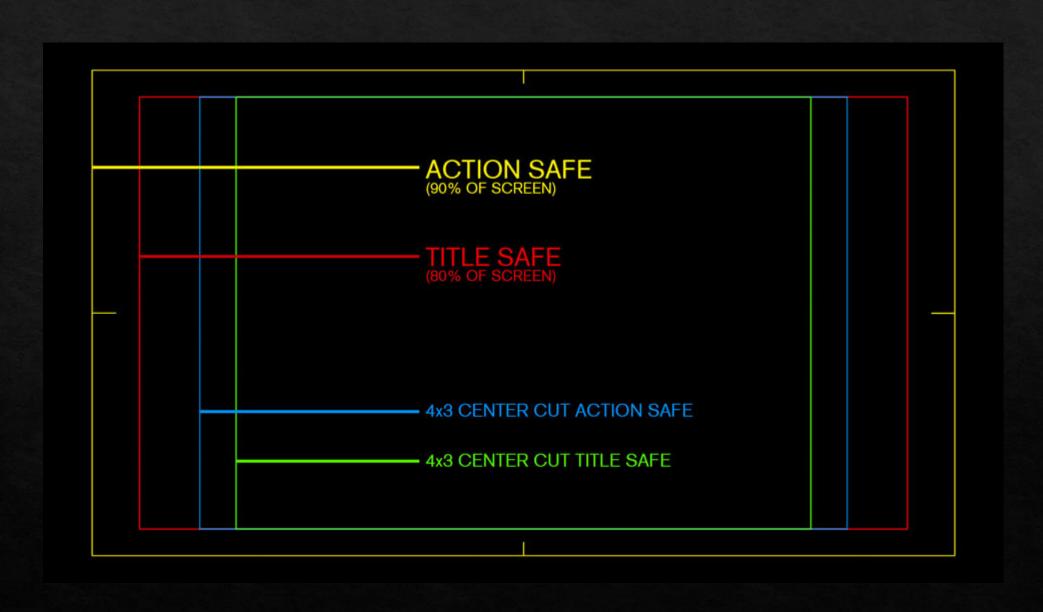


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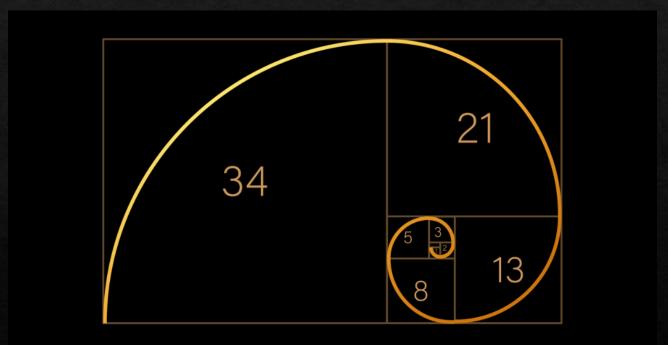




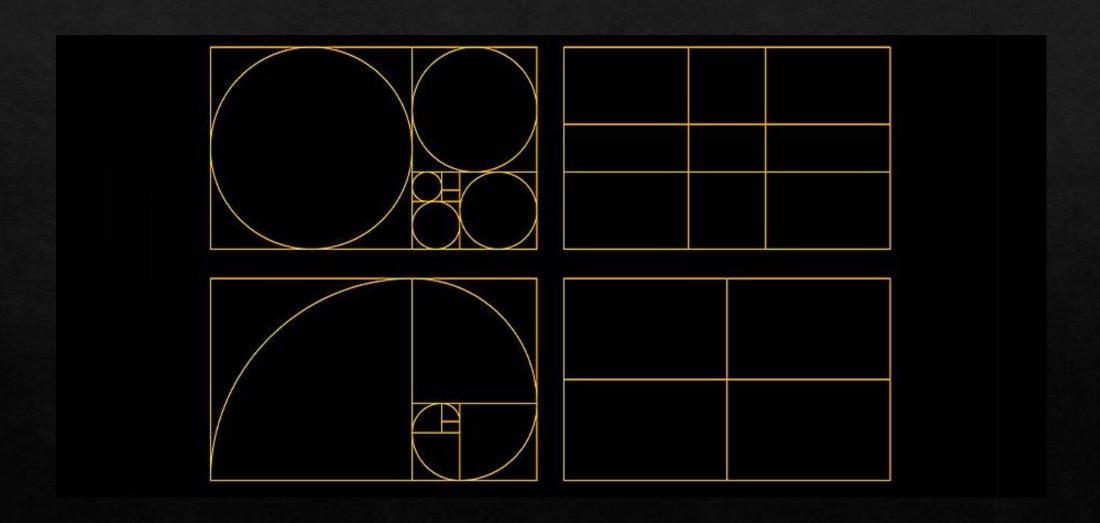


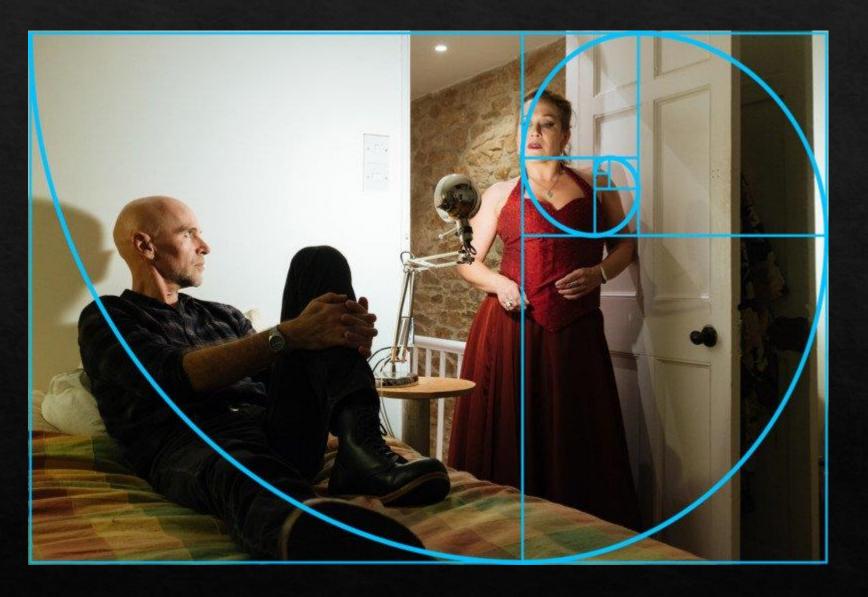






The Golden Ratio has been used to create aesthetically pleasing compositions. Conventional theatrical frames that "directs perfectly the audience's attention to the object of focus"





Projection Mapping



https://madmapper.com/



BY DERIVATIVE

https://derivative.ca/feature/projection-mapping/14

Projection Mapping



The mapping software

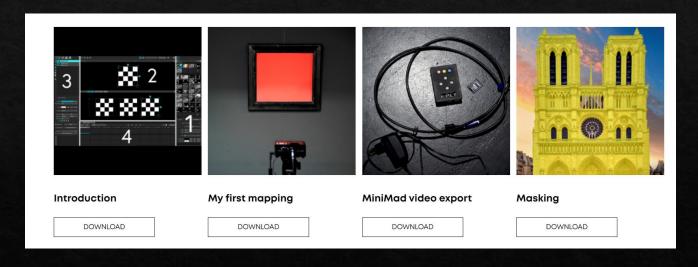
https://madmapper.com/



Projection Mapping

TUTORIALS





https://www.youtube.com/channel/UCC9p0fzuYik453n9fXFjpgg

Projection Mapping



https://resolume.com/software

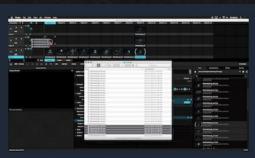


Projection Mapping

TUTORIALS



https://resolume.com/software



1.1 Loading Content



1.2 Triggering a Clip



1.3 Layer Opacity & Ejecting a Clip



1.4 Apply an Effect



1.5 Output

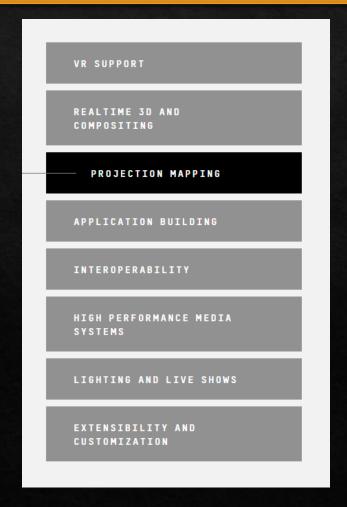


1.6 Resolution

Projection Mapping



<u>https://derivative.ca/feature/ projection-mapping/14</u>



Projection Mapping



https://derivative.ca/feature/projection-mapping/14

PROJECTION MAPPING

Projection mapping involves custom solutions to every job, no two projection setups are the same. TouchDesigner's suite of features and customization options ensure any projection project is possible.

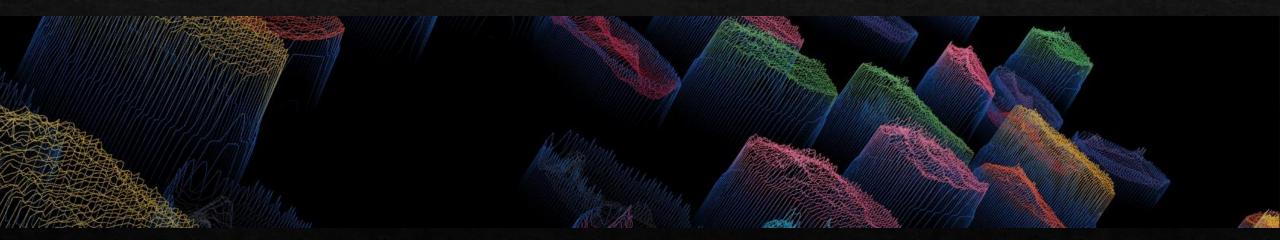


Projection Mapping



TUTORIALS

https://www.youtube.com/TouchDesignerOfficial



Projection Mapping

You can also find free softwares.

1. MapMap

A free, open-source video mapping software designed for real-time projection mapping.

Supports multiple video inputs and outputs.

Simple and easy to use, great for beginners.

2. Blender (with Add-ons)

Blender is a powerful open-source 3D creation suite that can also be used for projection mapping with certain add-ons.

Add-ons like BlendAr or Project Mapping Tools can enhance its mapping capabilities.

Ideal for more advanced users who want to integrate 3D elements into projection mapping.

3. MadMapper (Trial Version)

Although it's a paid software, MadMapper offers a free demo version with some limitations.

It's highly popular in the projection mapping community for its ease of use and powerful features.

4. VDMX (Trial Version)

A versatile software for real-time video mixing and mapping.

It offers a free trial version with access to many of its core features.

Video cues and troubleshooting technical issues during rehearsals and performances to ensure seamless execution of video content.

Chotto Desh - Akram Khan Company



Video cues and troubleshooting technical issues during rehearsals and performances to ensure seamless execution of video content.

https://www.youtube.com/user/akramkhancompany





Video Design

Jelena Rubil

