



**VIRTUAL
PRODUCTION
DOJO**

VIRTUAL PRODUCTION: SAY HELLO TO THE FUTURE



VIRTUAL PRODUCTION: A NEW ERA OF FILMMAKING

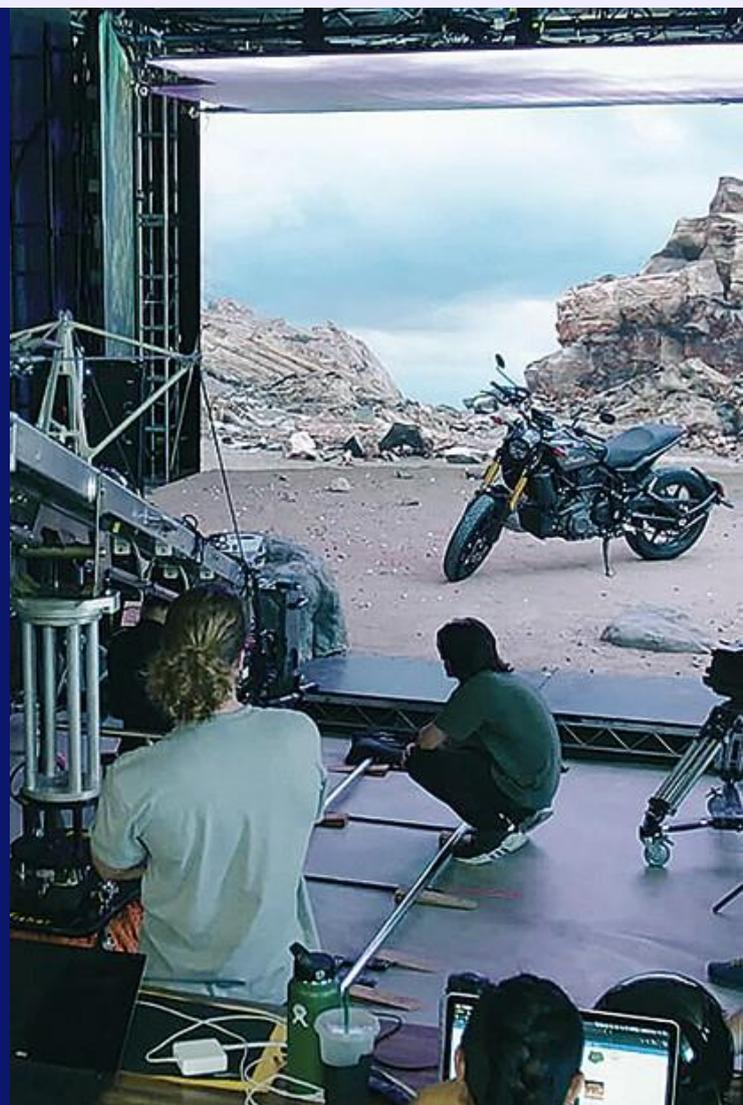


Rethinking how stories are told, a guide to getting started for the future of content creation.

Virtual Production is becoming an integral part of the VFX Pipeline by leveraging advances in computing and game engines. This cutting-edge technology gives rise to compelling photo-realism while locations from all over the world can be brought on stage through it.

Virtual Production allows to create environments which link with live-action. This in return, results in directors and filmmakers to make real time decisions and changes, where suitable, unlike traditional approaches.

Aided by game engines and VFX, moving backgrounds are created in full perspective regards to the camera position which updates in real time. Physical props and LED wall are used by the actor. This stems production which progresses from one photo-real environment to another without having the stage left. A virtual landscape is created by the simultaneous movement of camera and imagery. Final shots can be caught in camera, reducing the need for replacement of backgrounds in post-production. Thereby, reducing costs and saving on precious time.

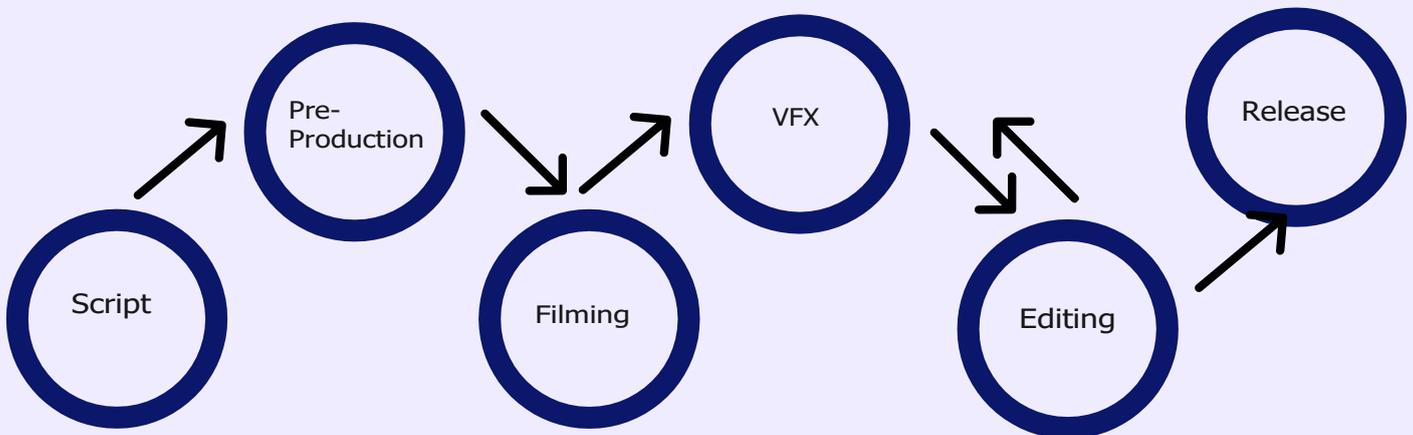




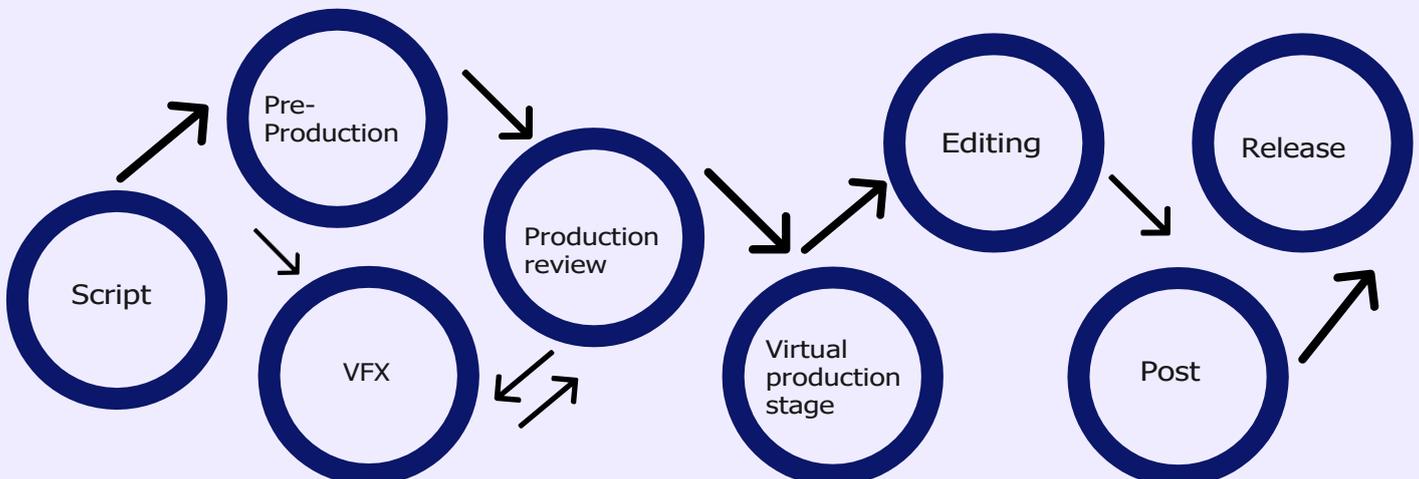
TRADITIONAL PRODUCTION VS. VIRTUAL PRODUCTION

The traditional production workflow employed in this mechanism involves a pre-vis environment which is modeled off the concept art and is scheduled to finish after relevant photography.

However, an ever-evolving filmmaking requires complex production which, in case of traditional approach not only means that iteration is wasted on finding a common point, but also is a manifestation of uncertainty. It results in visual disconnection and a degree of creative compromise.



Virtual production is where physical and digital worlds meet. It lets directors view a virtual environment with characters. Thus, it utilizes a plethora of software tools in order to allow amalgamation of live action footage with computer graphics in real time.





THE CRITICAL IMPORTANCE OF ADOPTING VIRTUAL PRODUCTION

Why is it gaining momentum?

Natural Lighting

In contrast to green screens which require specific lighting states to work and requires extra labor in post-production process to have desired dim/moody scenes, the ambient light from LED screens allows correct and automatic light to be utilized negating the need for post-production hassle and reducing the hassle for expensive reshoots involved in compositing and rotoscoping.

Design Freedom

Filmmakers are given complete independence over how things appear in film and hence compromise on design for elements such as hairstyles, costumes or props is reduced. Performing alongside LED screens amplifies natural performance and allows performers to react instinctively.

Realizing Vision

The flexible technology allows for experimentation, increasing to the creativity. Seeing the finished element in real time allows for adjustments beforehand.

Photogrammetry and 3D Scanning

Visualizing enhances planning and increases shoot efficiency. Whatever the filmmaker has in mind, can be created through visualization of real-time sets and environments. Moreover, game engines enable reshaping of the landscape. It can also be accompanied with XR. to create 360 degree environment.

Cost Reduction

Delays due to unforeseen elements such as unfavorable weather, location mismanagement etc. are reduced which in turn reduces cost allowing the budget to be allocated clearly.





VIRTUAL PRODUCTION TOOLS

POST-VIS

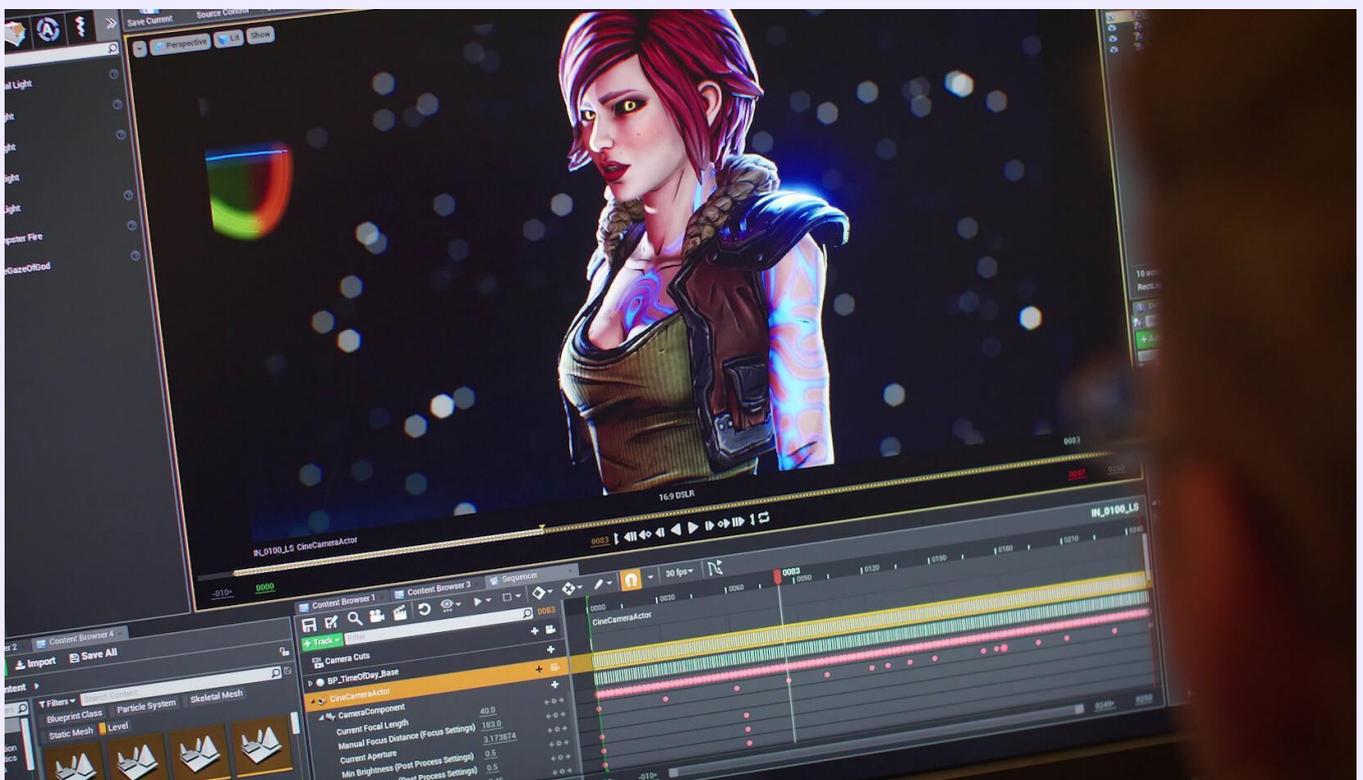
TECH-VIS

Breathes life into animation and is carried out after principal photography.

Motion capture volumes integrated with field of 3D.

VRITUAL PROTOTYPING/ VIRTUAL LED SCREENS

Producing LED stage volumes, these tools are integrated and used for animatics, concept and proof of design.



VIRTUAL LOCATION
SCOUTING

LED VOLUMETRIC
STAGES

REAL-TIME MIXED
REALITY VFX



THE TALENT CHALLENGE: NZ FACED WITH LACK OF TALENT DEVELOPMENT OPPORTUNITIES IN VIRTUAL PRODUCTION CAPACITY

THE EVER-GROWING DEMAND FOR CONTENT HAS ALSO INCREASED THE NEED FOR STUDIOS FOR PRODUCTION ACTIVITIES

Due to financial risk being associated with the construction of studio bases, none for the moment have been built outside of Wellington and Auckland.

Furthermore, the amount of income or the output needed to reduce this risk to an acceptable level for an investment of such an extent is also not quantifiable.

Small film supplier tenants in Auckland supported the incoming productions but these ceased as there was an increasing demand for space.

Keeping the lack of such studios in mind and also the international opportunities of the number of productions which have been shooting recently, a key indicator for establishing screen studios is foregrounded.

Consumer demand for content has been high in spite of the COVID-19 Pandemic. Producers have been committed to their future productions.

New Zealand's capability to keep workflow production is high and for those investors seeking to capitalize on this and international productions, this is a wide opportunity.



BRIDGING THE GAP FOR VIRTUAL PRODUCTION CAPABILITIES

All you need to know about the Virtual Production Dojo



Offering hands on virtual production training and commercial software toolset, Virtual Production Dojo is the new collaboration for you if you are an industry stakeholder, industry researcher, or an academic looking for a high-quality training with guaranteed outcomes.

Now is the time to seize the opportunity to understand the advantages of virtual production models, as well as the necessary adaptations to established production workflows. Virtual Production Dojo's certified training program offers the development of 2D and 3D production skills with certified trainers.



YOUR VISION, OUR PROCESS

HOW CAN YOU BENEFIT FROM THIS TRAINING PROGRAMME?

Aforementioned, virtual production is the new pathway for the ever-evolving filmmaking industry. Hence, it is imperative to up-skill and train industry professionals and newcomers in the creative sector.

Virtual Production Dojo has laid an emphasis on the Ethnic and Indigenous communities to bring their stories to life. Reallusion certifications for iClone and Character Creator are set to upstage professional animation and Digital Human creation skills.

With the ongoing paradigm shift in the current times of the media and game industry, equip yourself with the virtual production techniques.

Are you ready to join the revolution?

ENROLL NOW!

www.VirtualProductionDojo.com

