Storyboarding and Animation for 360° Videos



Now, VR needs to be driven by creative. Creative will make the tech better.

- Cliff Plumer, President at Jaunt Studio

Introduction

Virtual Reality as medium of storytelling

Growing and growing...

Changed the way of storytelling

Audience's Presence

Objective

The objectives of this research project was to

Study, analyse, explore and to propose methods for storyboarding and animatic for 360 degree surround storytelling experience, other than conventional methods of storyboarding and animatic

To understand the animation techniques and workflow for making 360 degree videos.

Secondary Research

Studying sample works

Storytelling / Films as a user centric process

Understanding the challenges

How users interact with the medium

Existing methods of storyboarding



Comparison of 360° and frame based videos

Filming and production

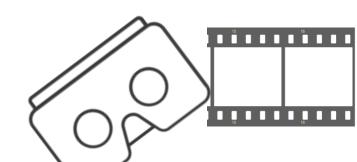
User Interaction / presence

Planning and Storyboarding

Production Time

Sound and Lighting

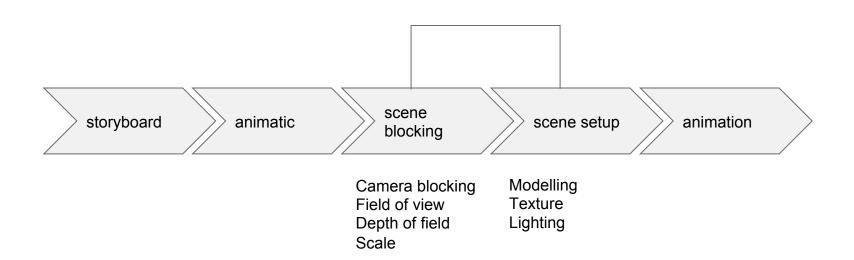
Post - production



Process

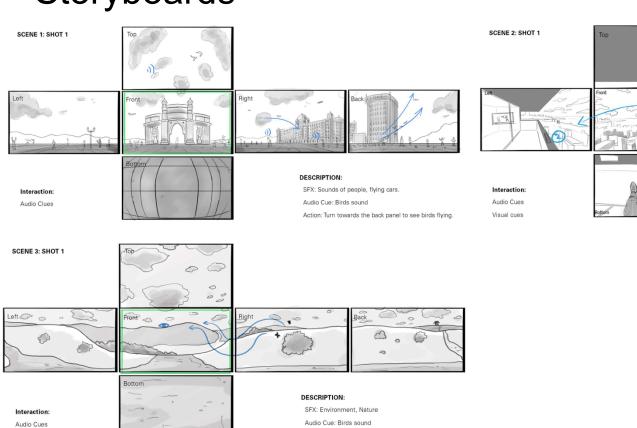


Process



Storyboards

Visual cues



Action: Follow the butterflies and view the flashes.

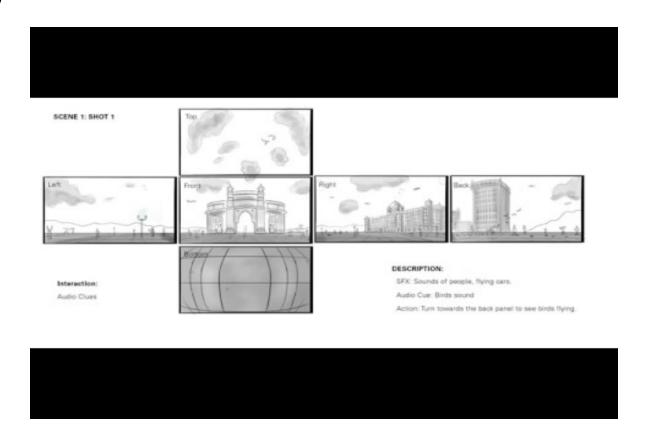
DESCRIPTION:

Audio Cue: Sound of Flying Car

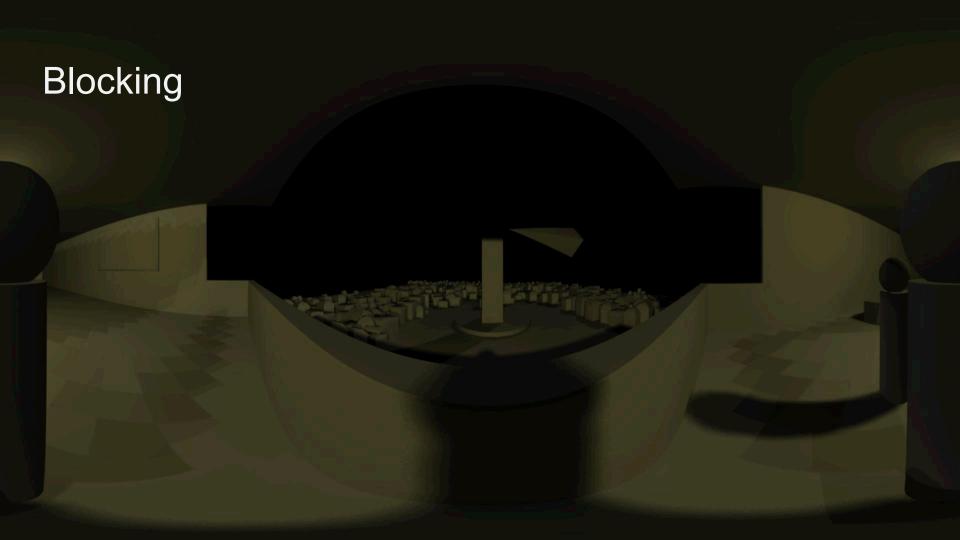
Action: Follow the Car towards the Phone Message

SFX: City

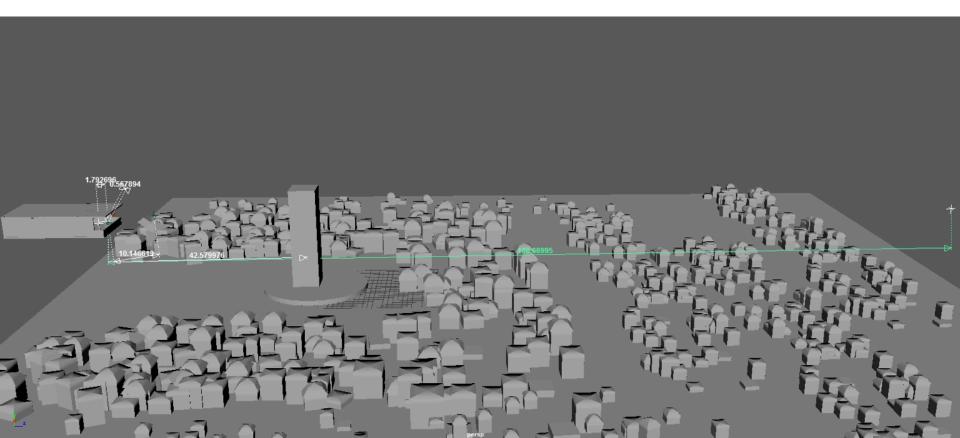
Animatic







Blocking









Tools used

Adobe photoshop | Storyboarding

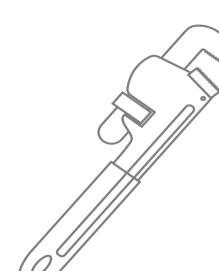
Autodesk Maya | Modelling and Animation

Mental Ray | Renderer

Domemaster 3D | Stereo plugin for Maya

Adobe After Effect | Compositing

Five Machines | To Render



Panoramic storyboards

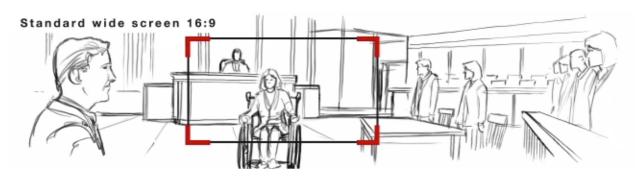
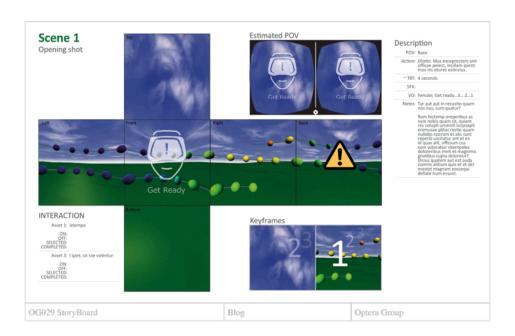


Image Source: https://famousframes.com/blog/view/the-virtual-reality-of-storyboards

Storyboards based on field of view

Image Source: https://virtualrealitypop.com/storyboarding-in-virtual-reality-67d3438a2fb1#. 7a9in81se

Unfolded Cube



Images Source: http://www.opteragroup.com/ar-vr-storyboard/

Nine frame spherical storyboards

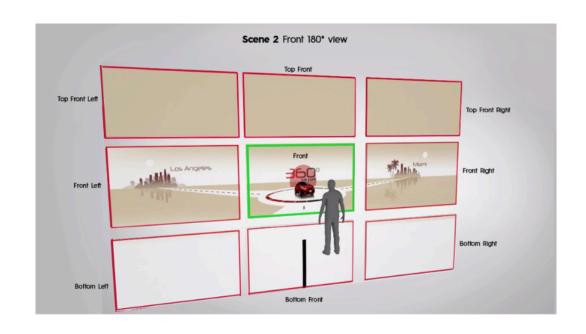


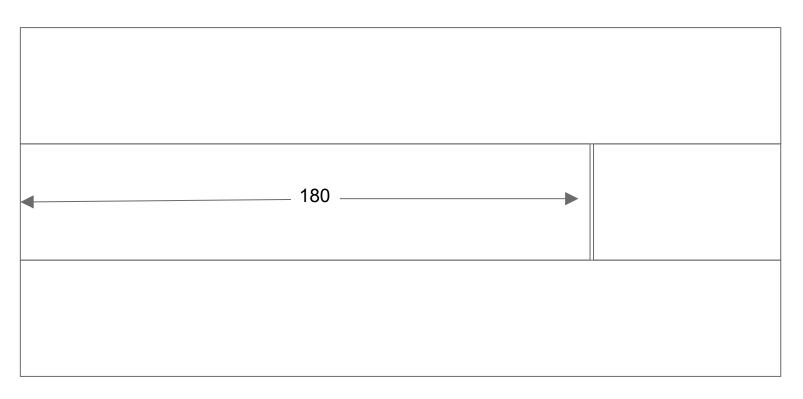
Image Source: https://www.linkedin.com/pulse/how-storyboard-virtual-reality-360-video-scott-ownbey

Proposed method for storyboard

Тор				
Left side	Front	Right side	Back	
Bottom				

Proposed method for storyboard

Proposed method for storyboard



Challenges

Creating Depth

Scale and Distance

Gaze Control

Scene to Camera Scale Ratio

Rendering Time

Compositing

Hardware and Software issues



Thank you