

360 PRODUCTION

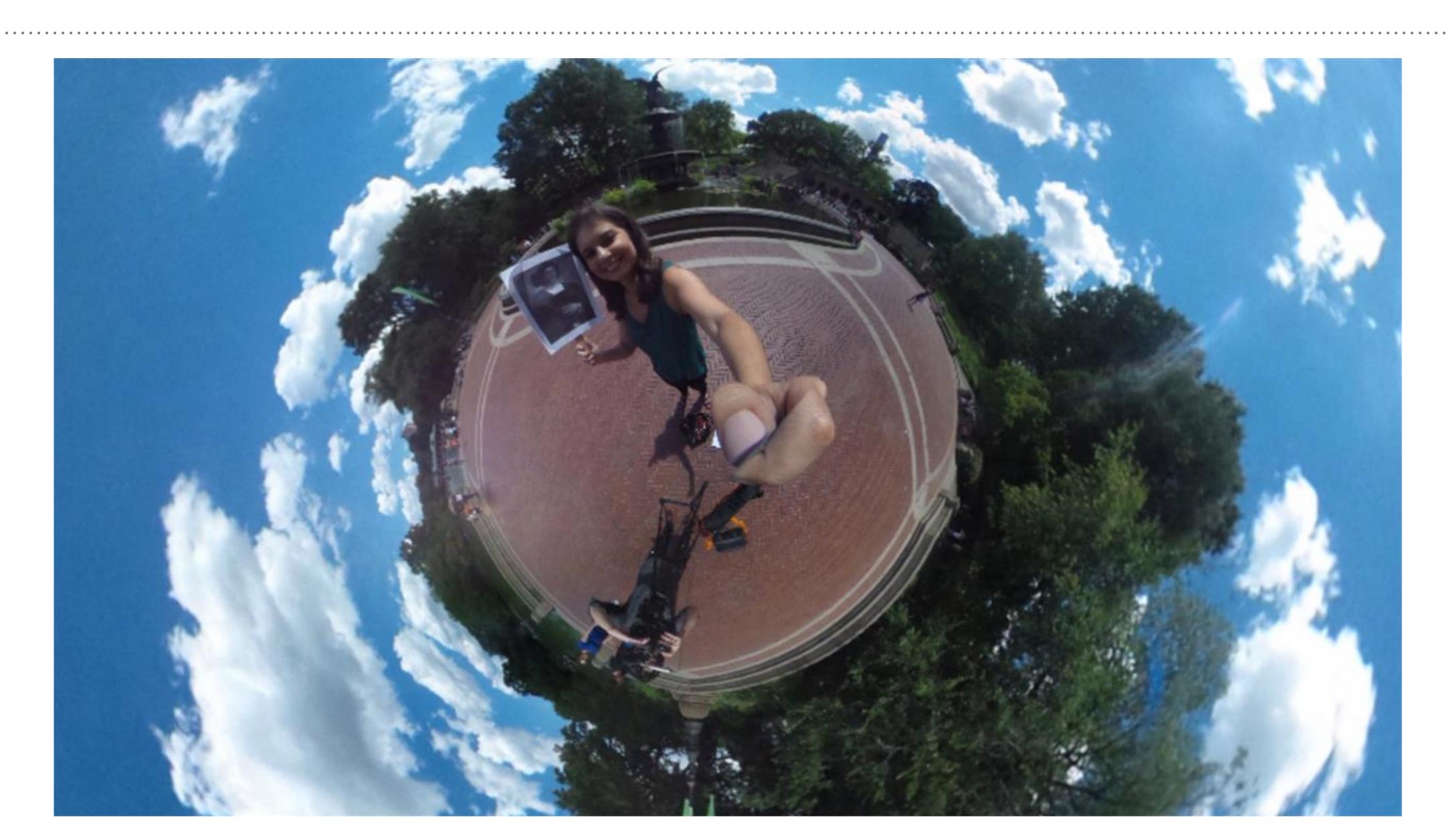
360 IMAGE TYPES - EQUIRECTANGULAR (SPHERICAL)



360 IMAGE TYPES - PANORAMA (FLAT)



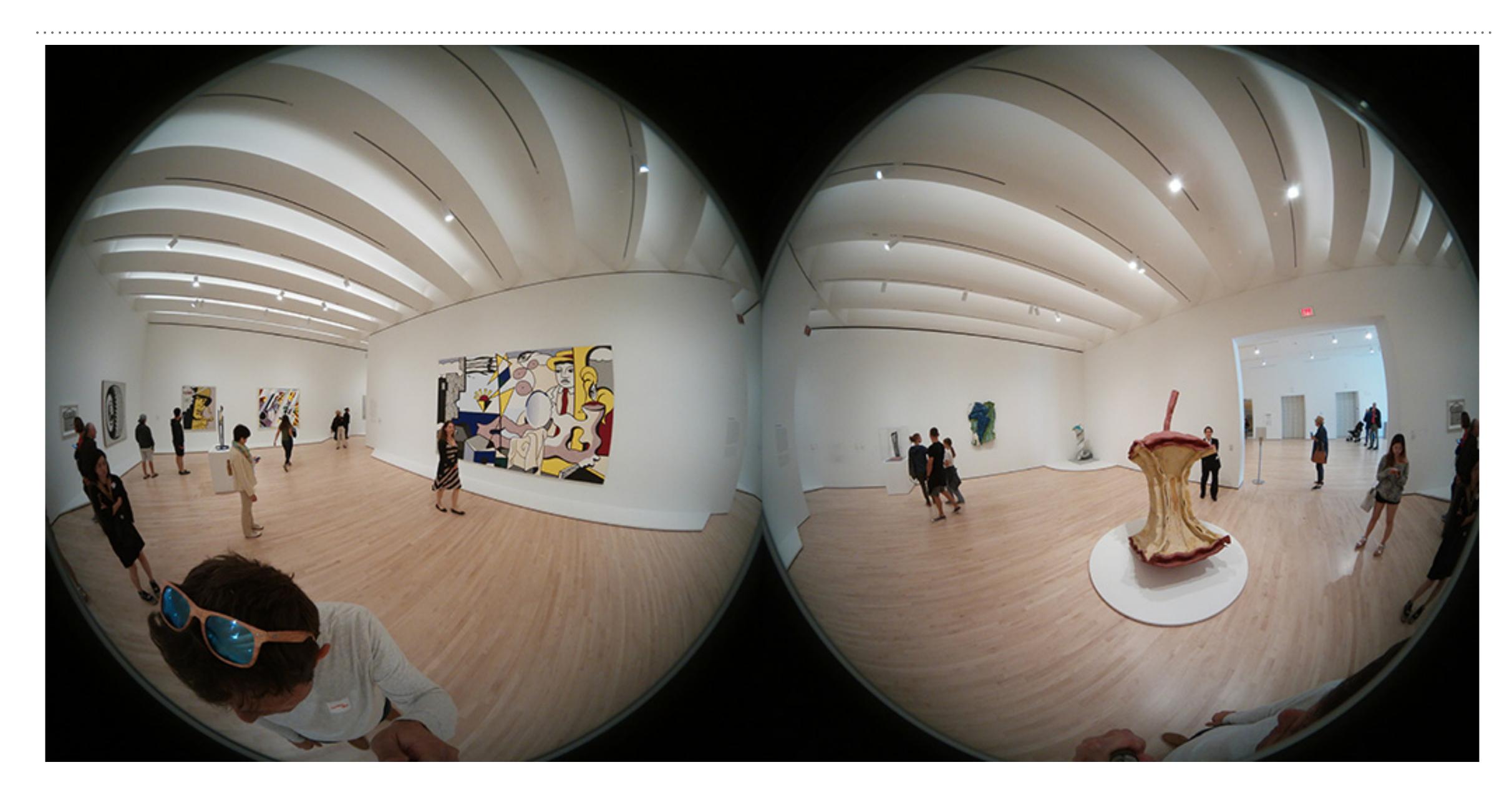
360 IMAGE TYPES - TINY PLANET



360 IMAGE TYPES - FISHEYE



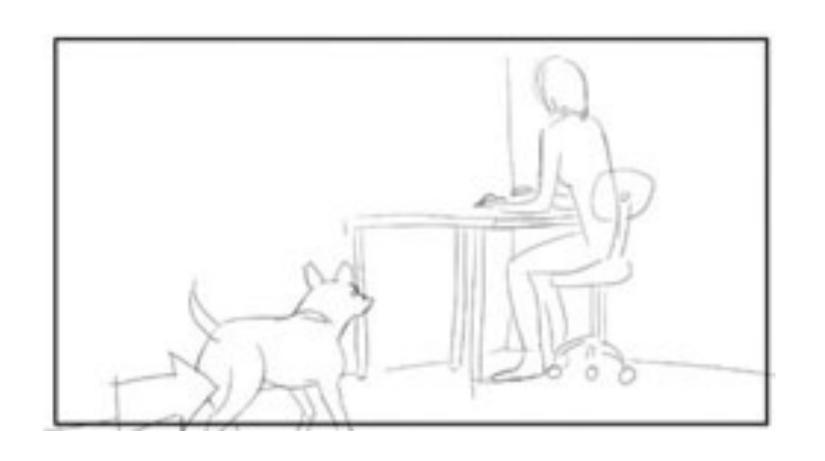
360 IMAGE TYPES - DUAL FISHEYE



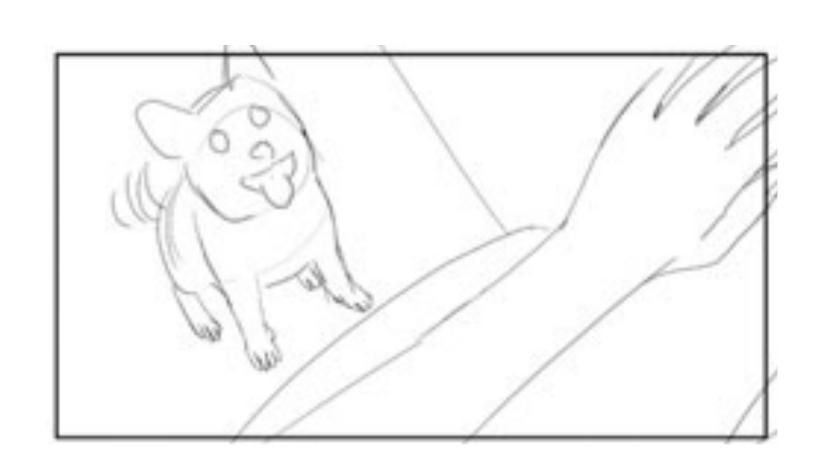
LINEAR PROJECTS

Based on the "frame"

Creator controls the view

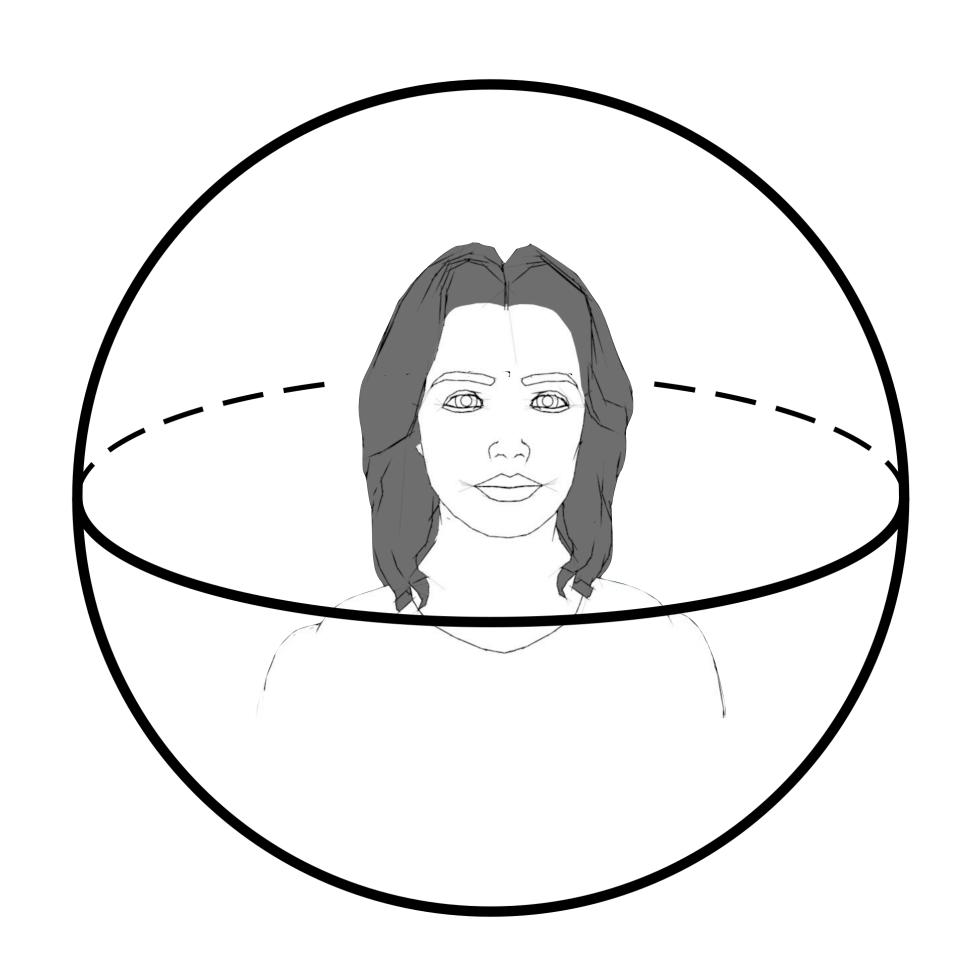




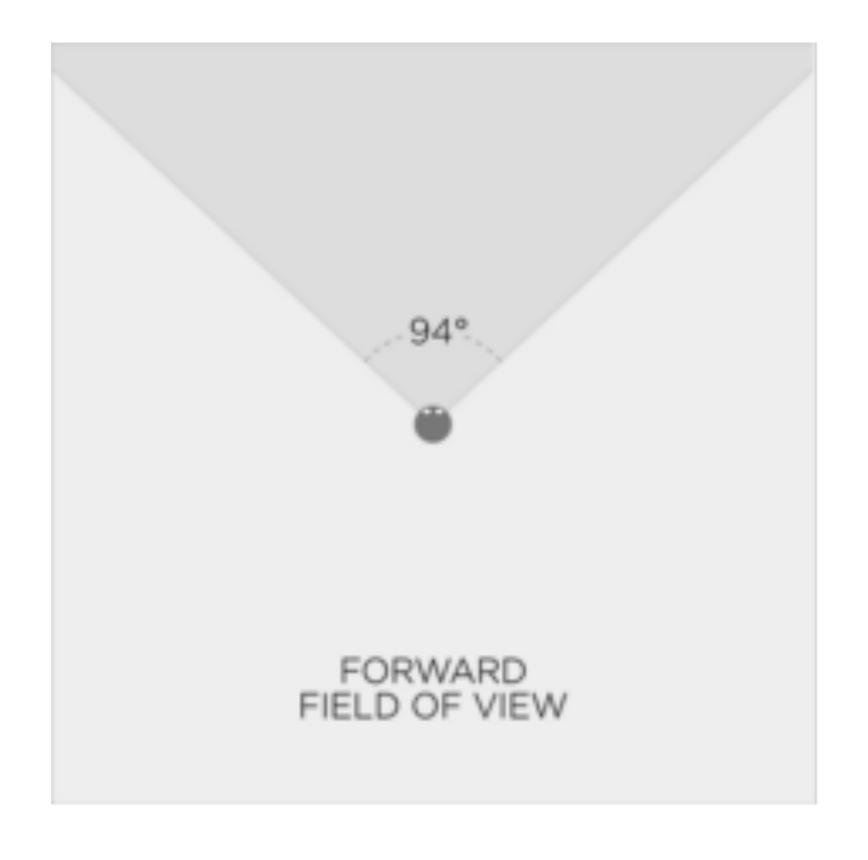


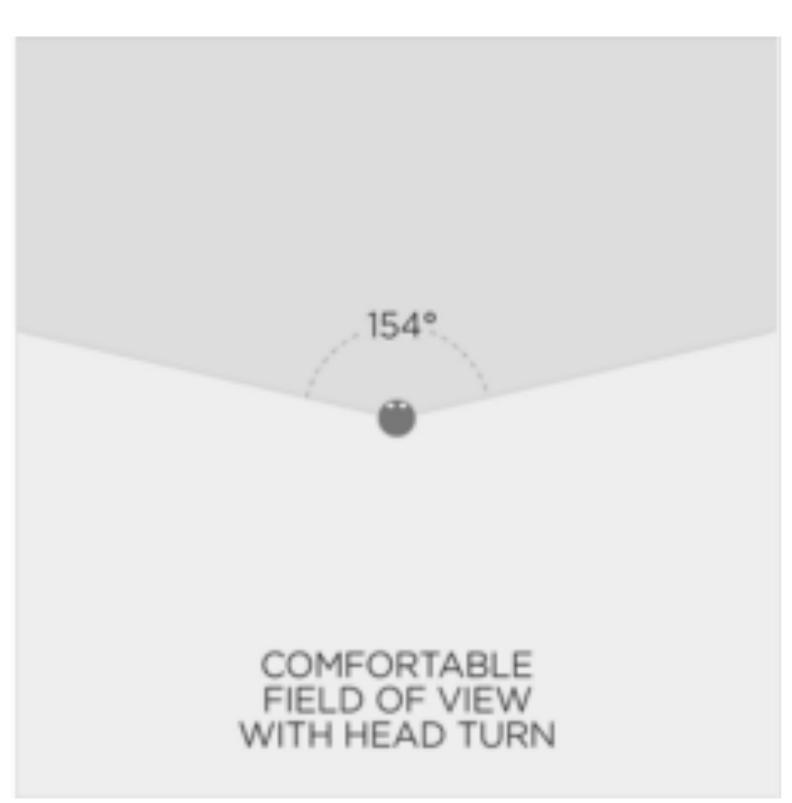
Based on the "sphere"

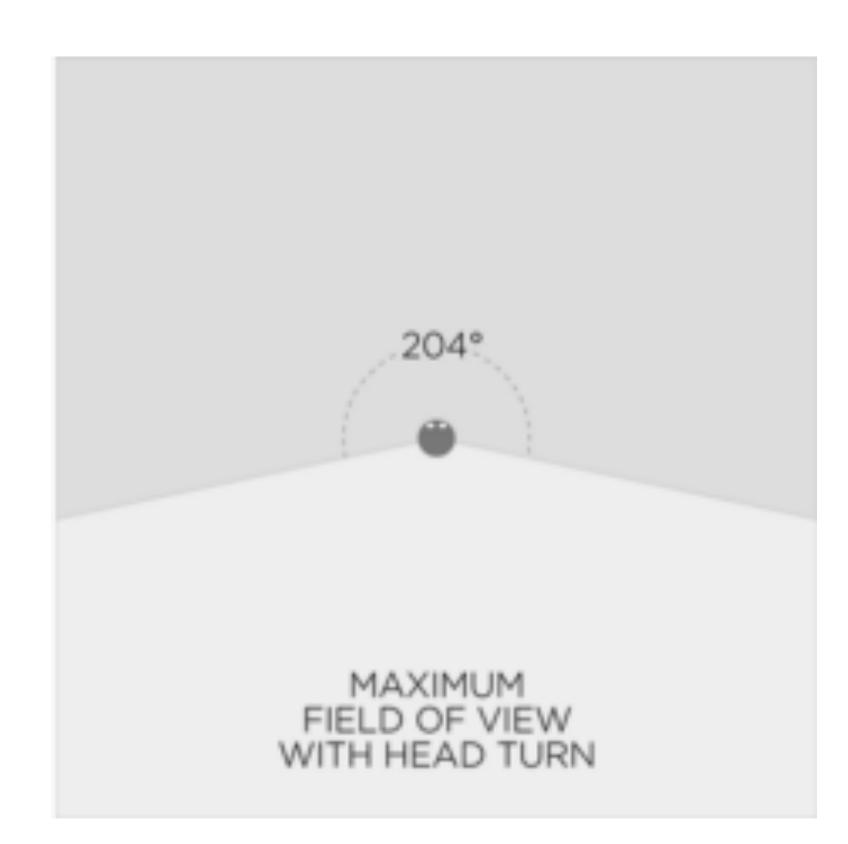
Audience controls the view



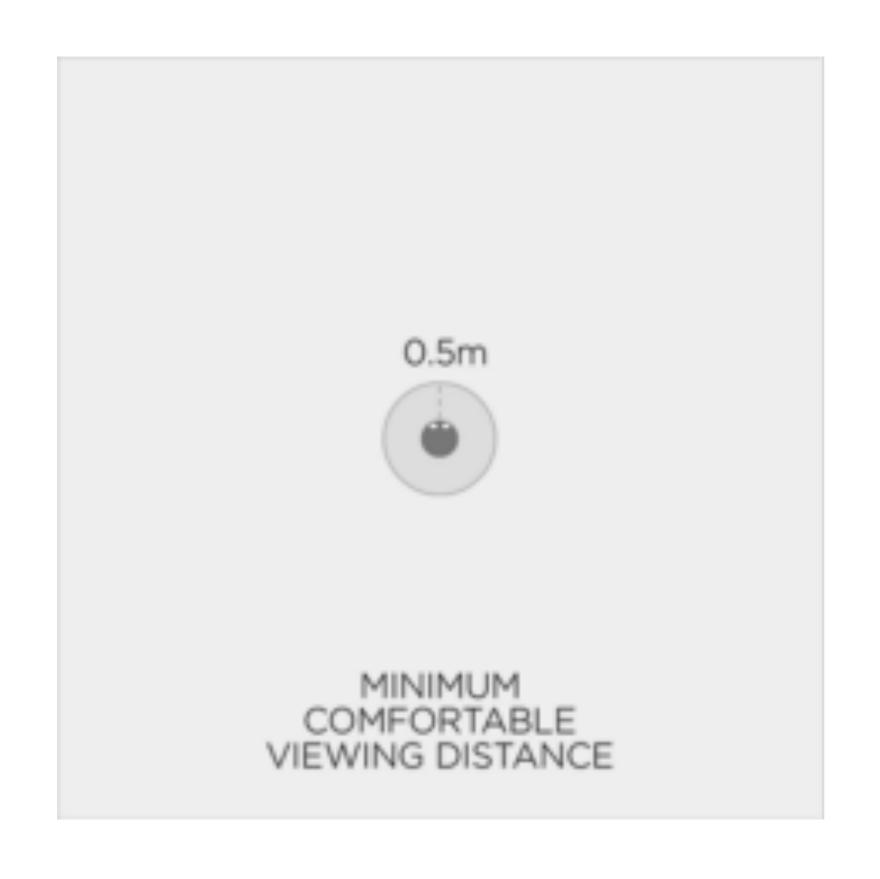
360 FIELD OF VIEW

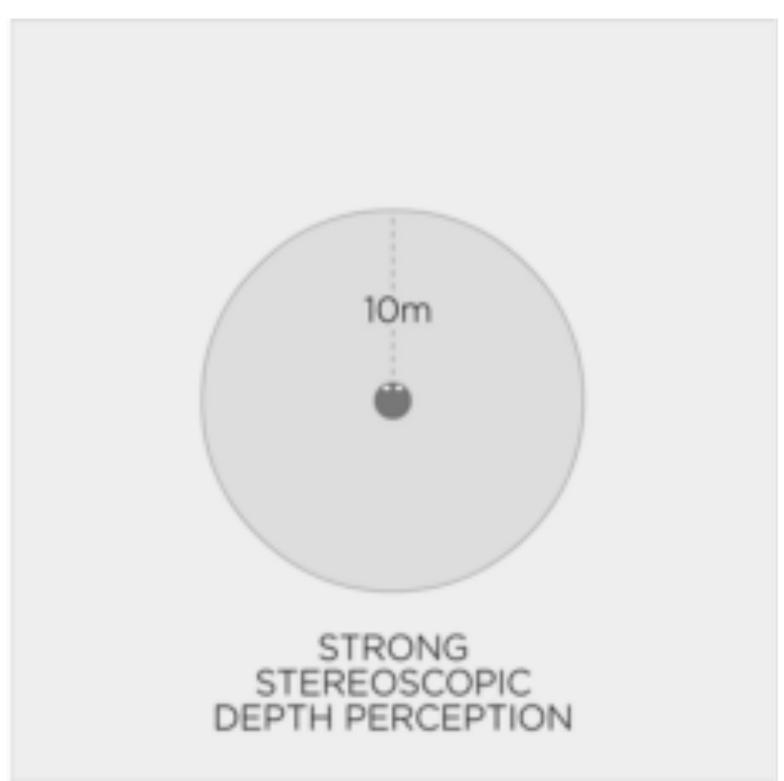


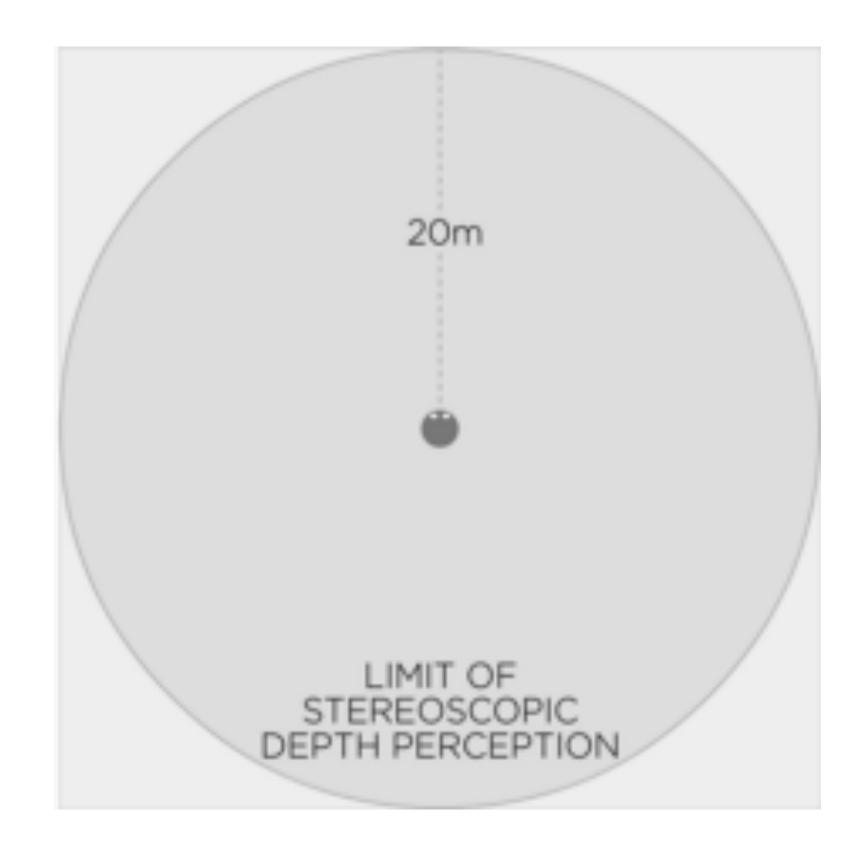




360 VIEWING DISTANCE







DEGREES OF FREEDOM (DOF)

3 DoF

Left / Right - Up / Down - Head pivot left / right

6 DoF

Forward - Backward - Sideways - Up/Down

360 AREAS OF INTEREST

PLANNING FOR 360

Storyboard

Check Location

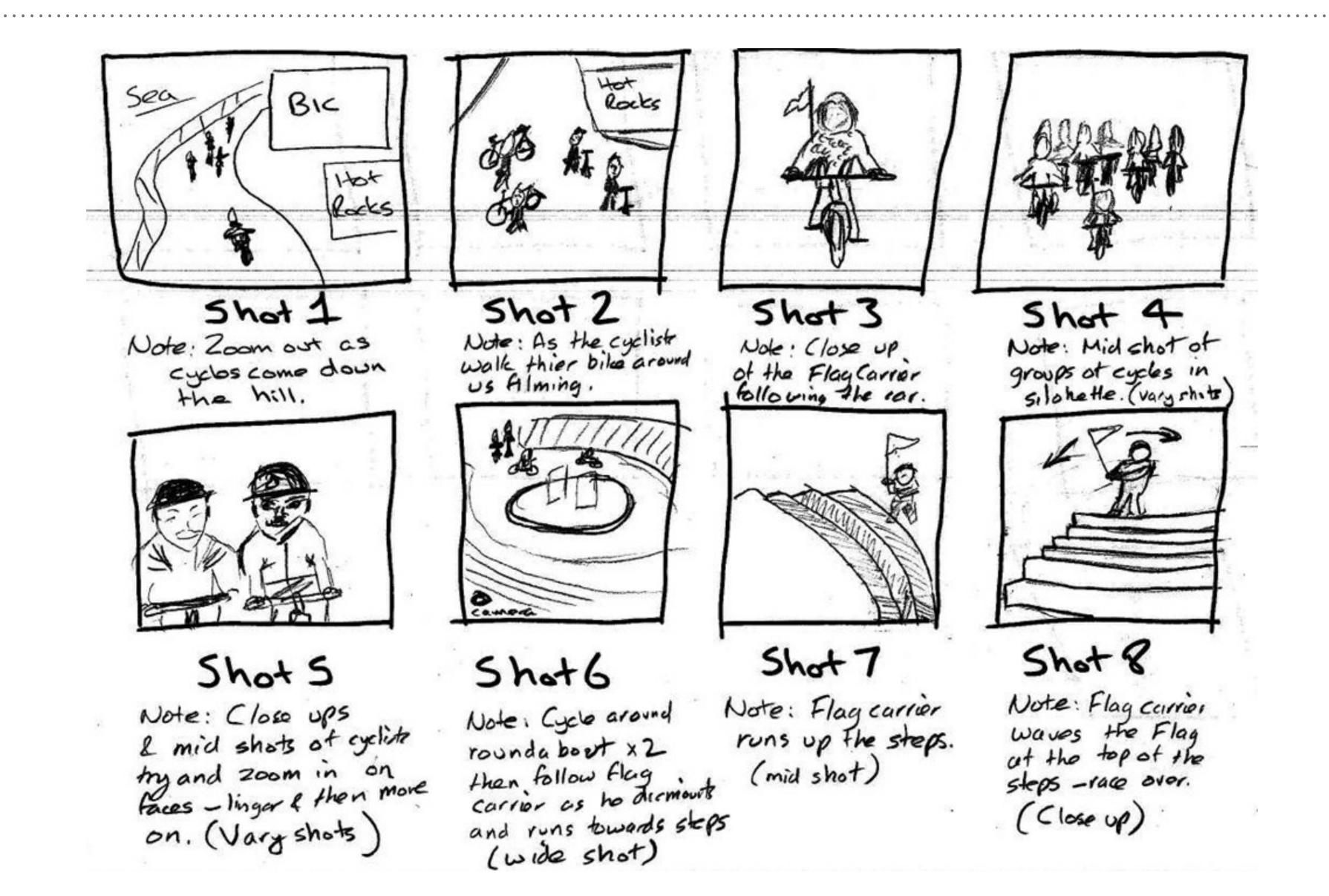
Physical

Audio

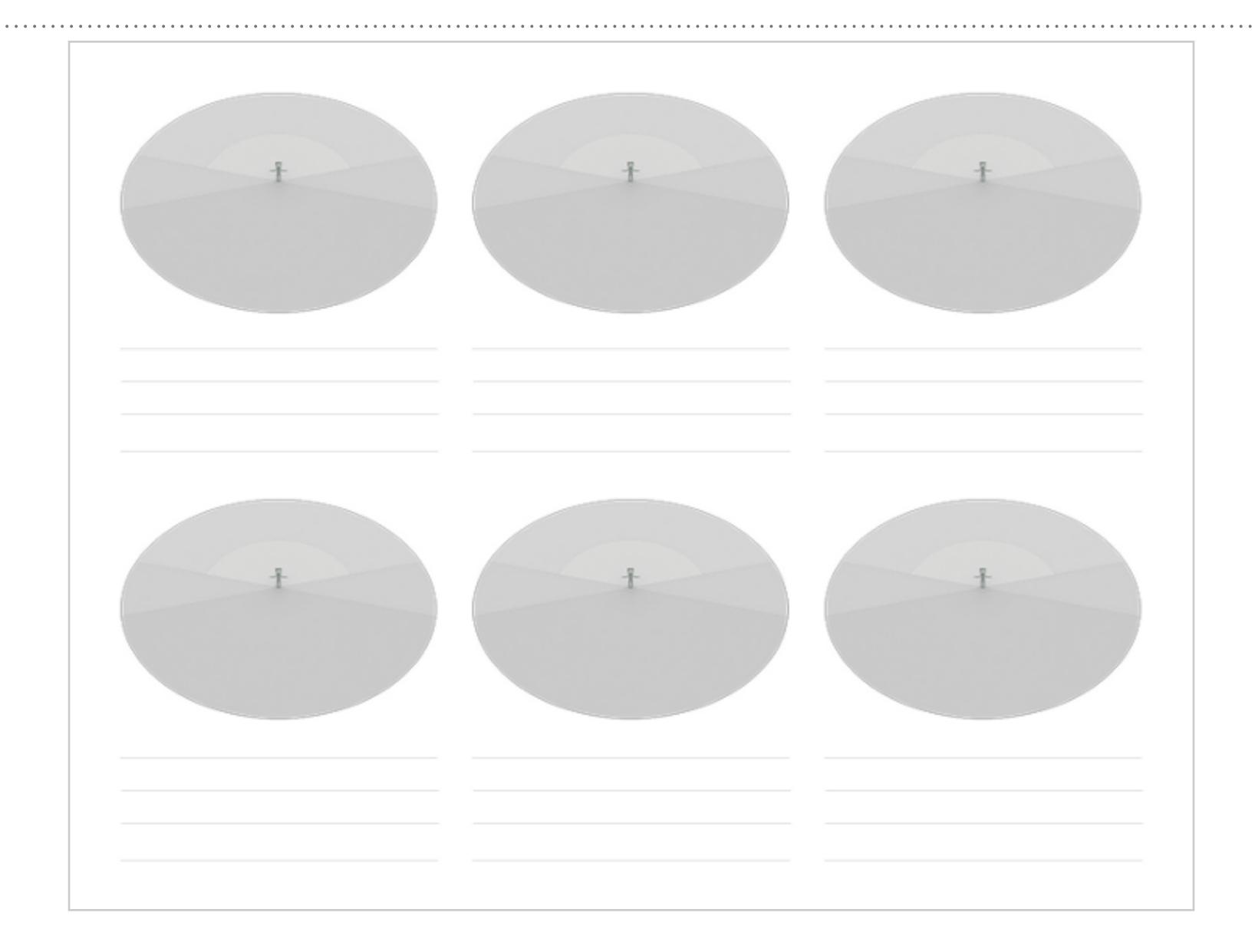
Lighting - light source direction

Lights?

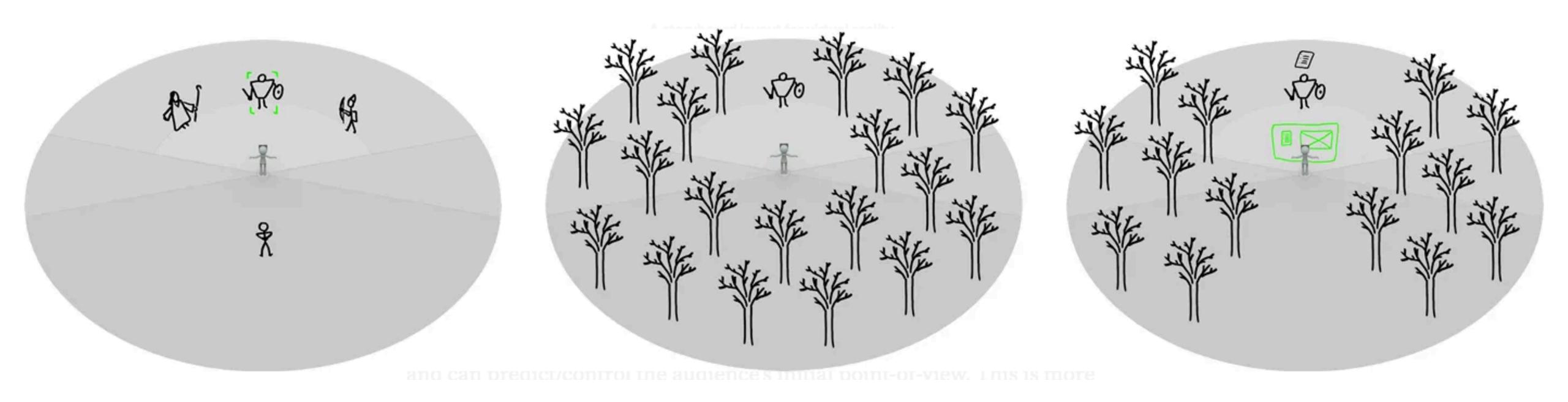
TRADITIONAL STORYBOARD (LINEAR VIDEO)



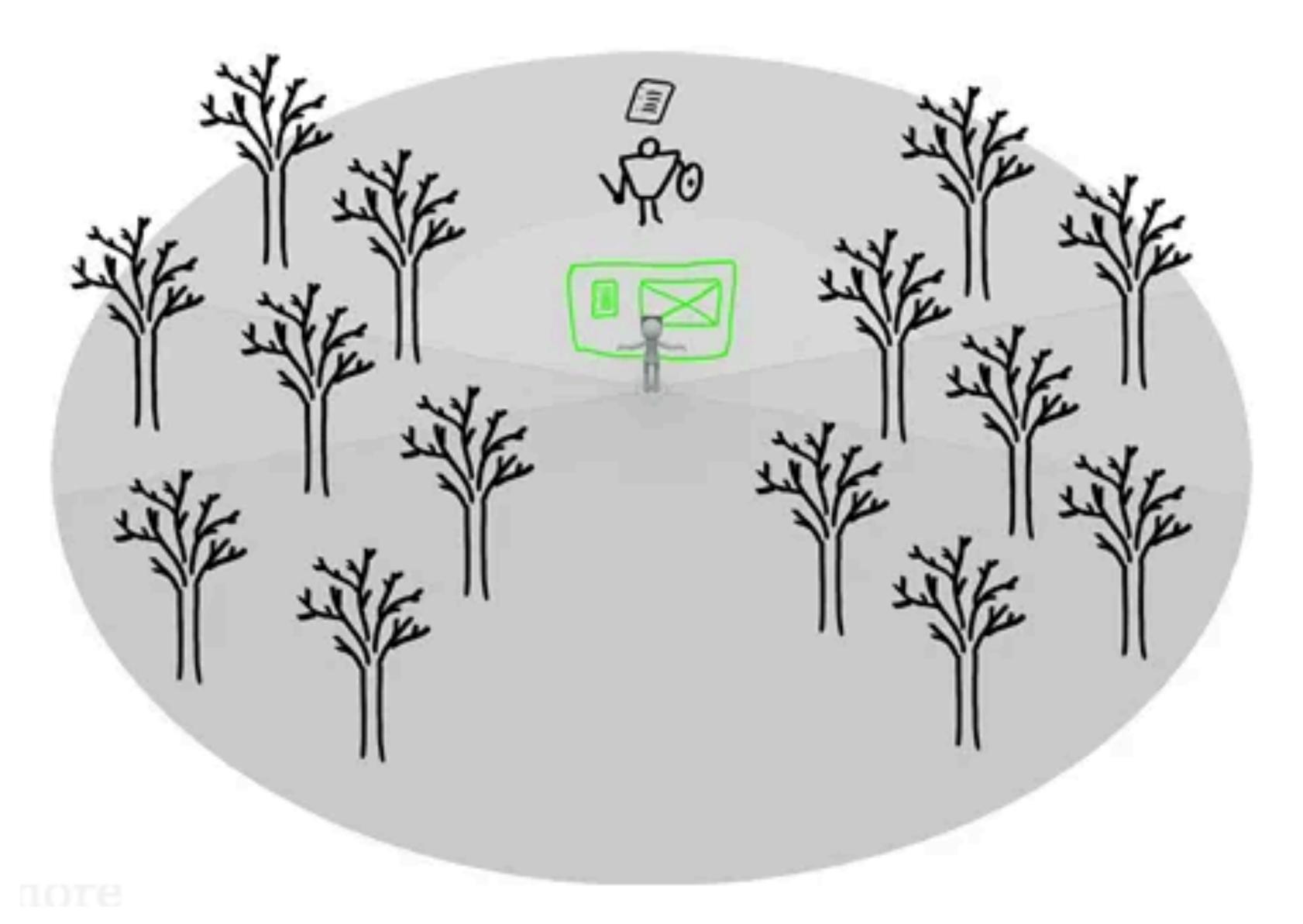
360 STORYBOARD



360 STORYBOARD FRAMES



360 STORYBOARD FRAME DETAIL



Vincent McCurley

DIRECTING ATTENTION - LINEAR

Camera movement

Edits and/or effects between shots

DIRECTING ATTENTION - 360

Visual cues

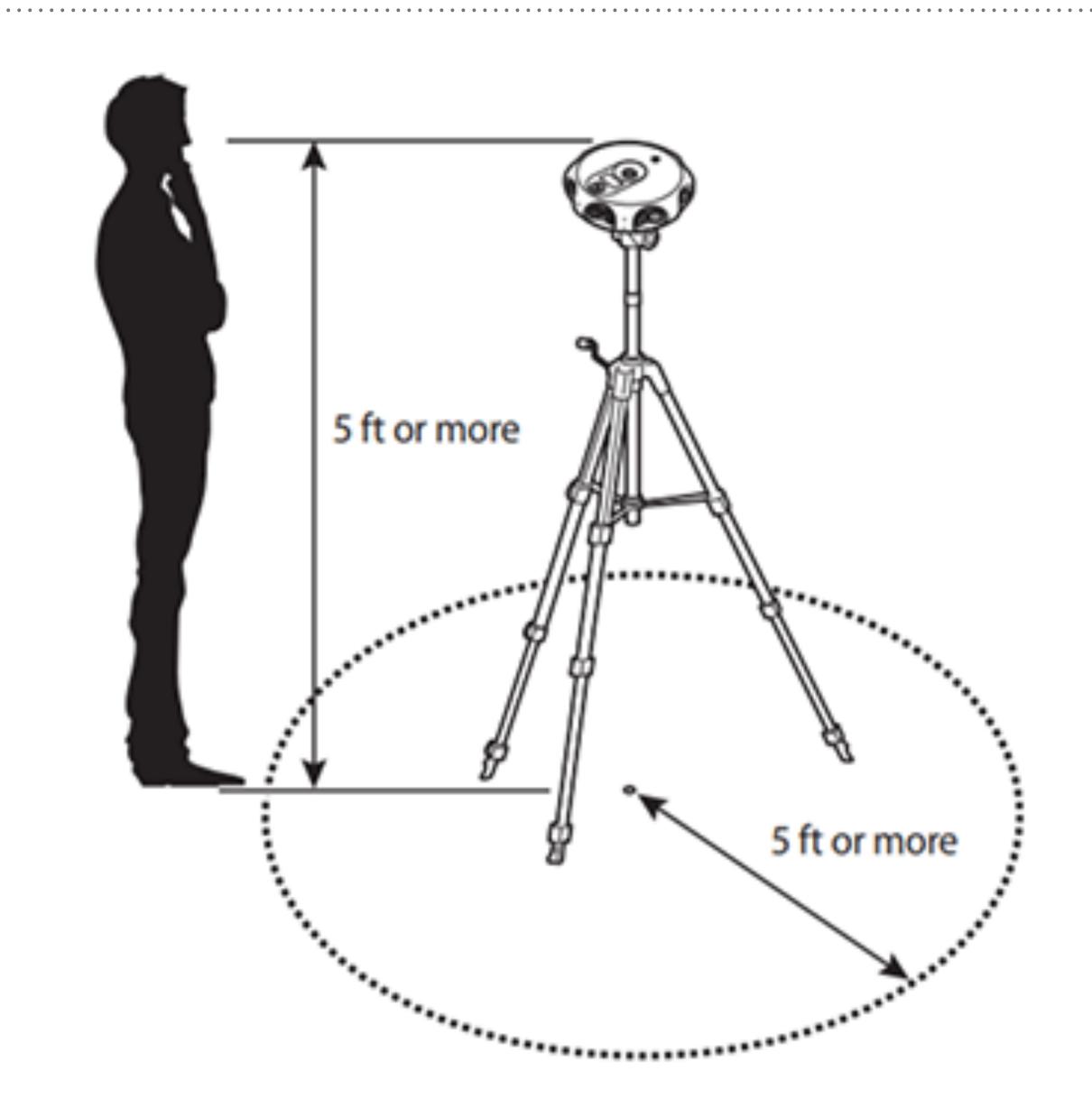
Audio cues

DIRECTING ATTENTION - POINTS OF INTEREST





360 CAMERA SET-UP



360 PRODUCTION - SET-UP

Camera Mounting

Light stand - 1/4-20 bolt mount

Monopod

Selfie Stick

Tripod

Charge Batteries

Format SD card

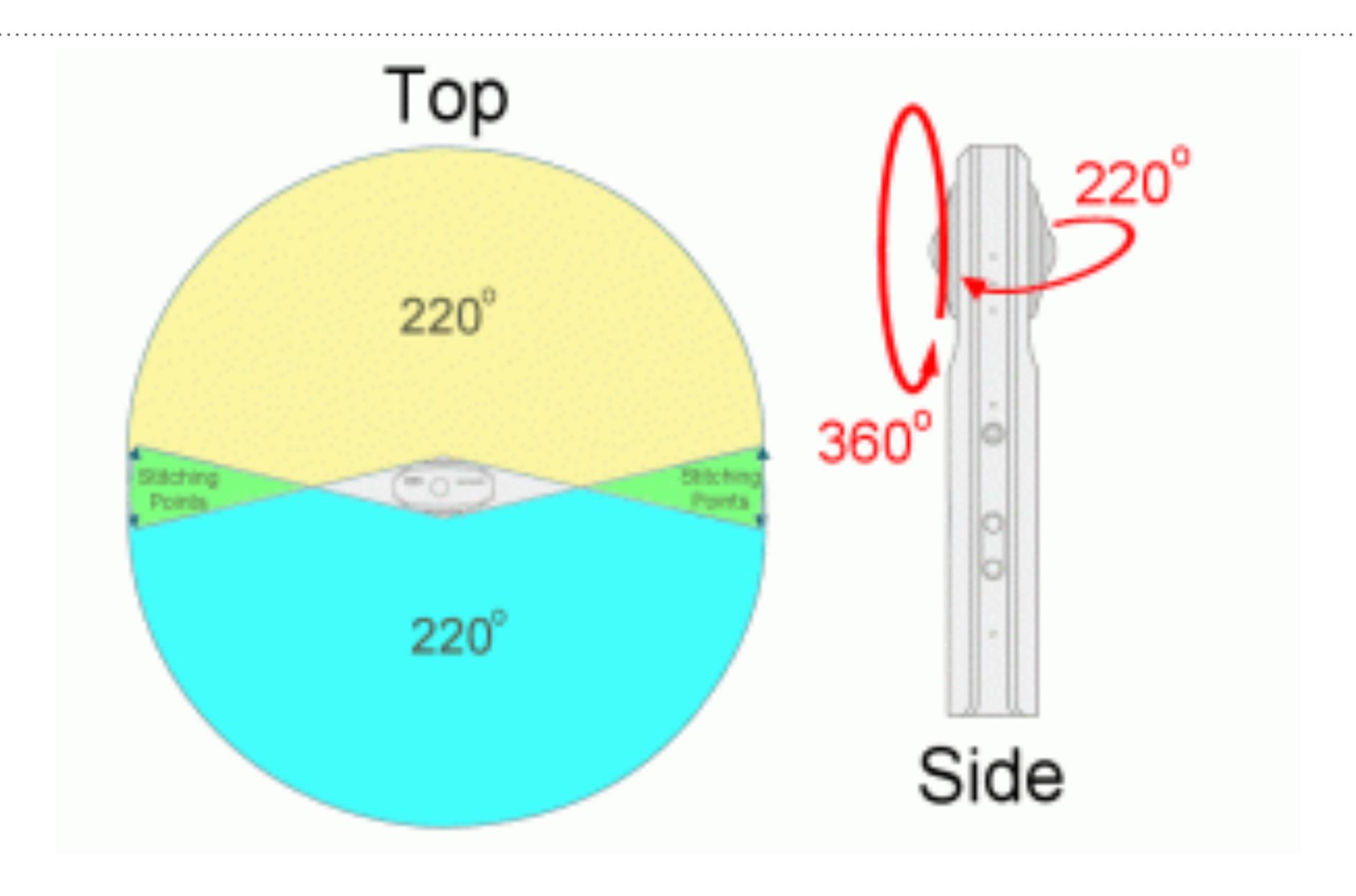
STITCHING

Where individual images join

Take into account when setting your shot

Keep the main subject out of the stitch line

STITCHING AREAS



STITCHING ERROR



AFTER RECORDING

Download files to your phone - WiFi

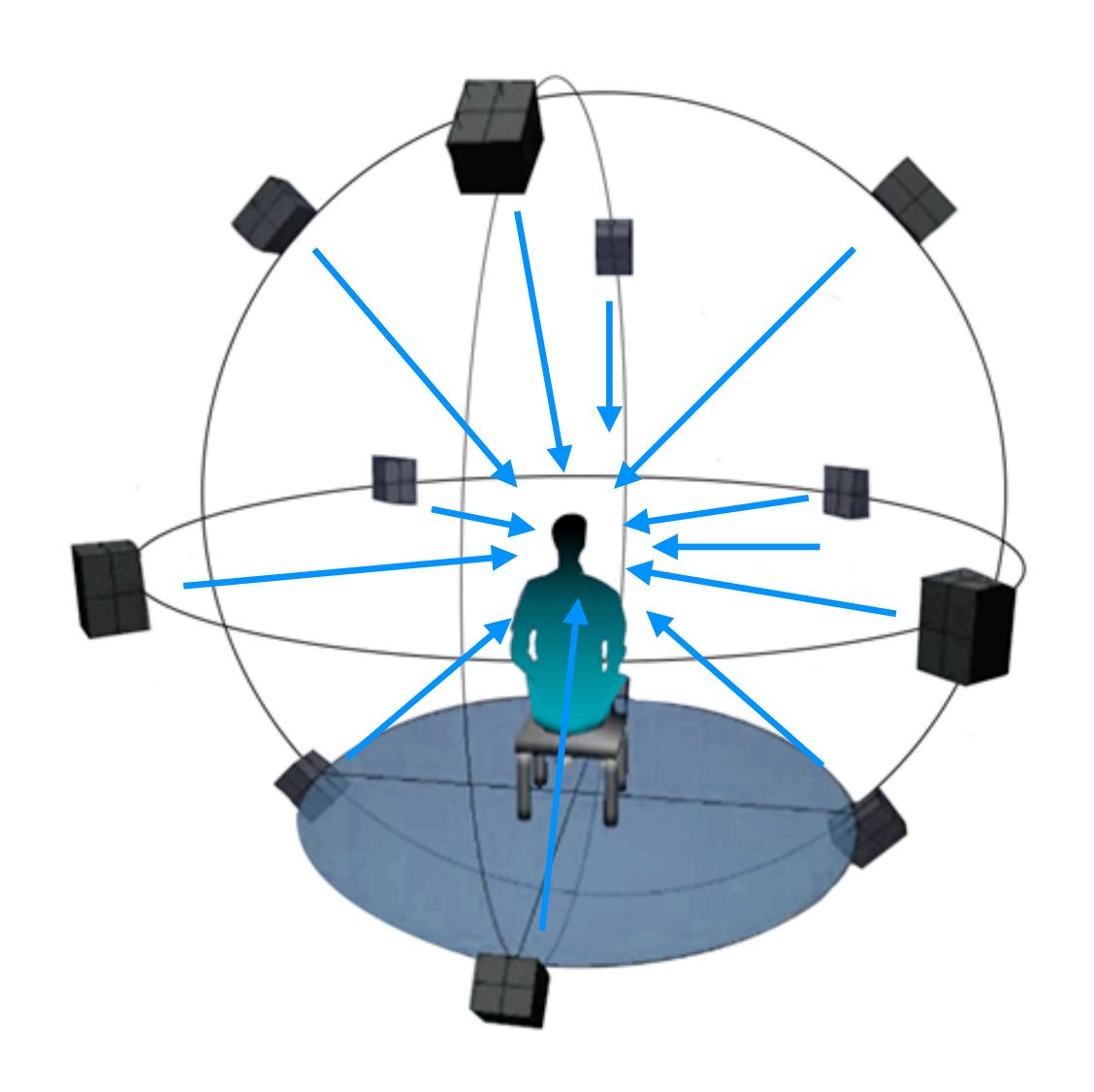
Download files to your computer - SD Card, USB cable

Full-sphere surround sound format

Horizontal plane, above and below

TRADITIONAL VS AMBISONIC AUDIO





Ricoh Theta X

No processing needed - creates files in video format

Insta360 One X

Import .insv files to Premier (Insta360 plugin installed with Insta360 Studio 2022)

360 POST-PRODUCTION

Edit in Desktop application (Insta360 Studio 2022) Edit in Adobe Premiere

360 PUBLISHING

Spec	YouTube	Facebook
Format	.mp4, .mov	.mp4, .mov
Codec		H.264 (MPEG-4 AVC)
File Type	Equirectangular	Equirectangular
Aspect Ratio	2:1	2:1
Resolution	7168 x 3584 8192 x 4096	Up to 5120 x 2560
Framerate (FPS)	24, 25, 30, 48, 50, or 60	30

facebook.com jisc.ac.uk YouTube.com videostudiopro.com

QUESTIONS?