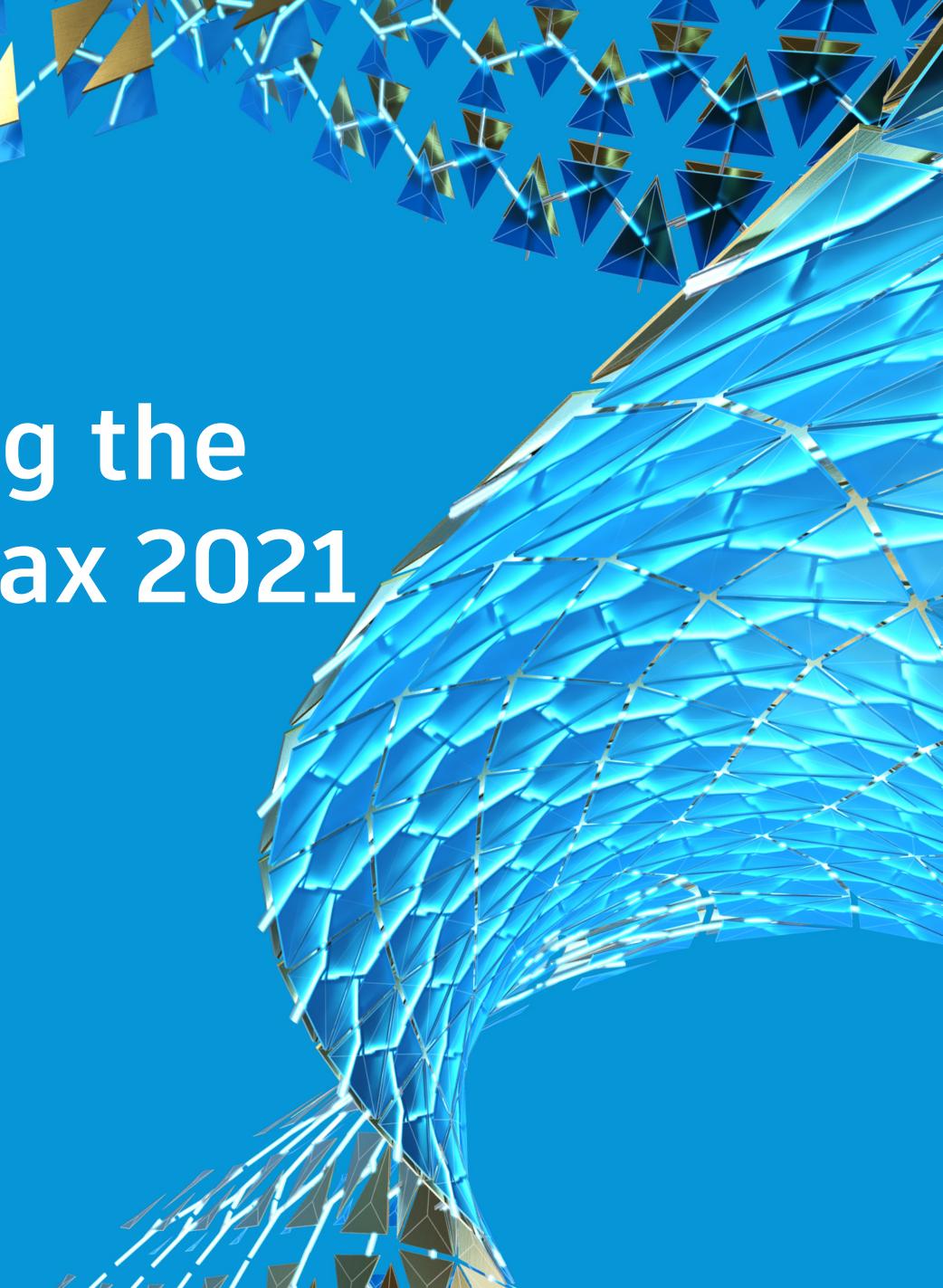


Shadow Study – Animating the Daylight System in 3DS Max 2021

Renu Muthoo

Content Developer @socialmedia





About the speaker

Renu Muthoo

- Experienced in 3ds Max and AutoCAD (including verticals)
- Over 23 years experience working on Autodesk products
- Developed over 50 training guides, including:
 - 3ds Max
 - AutoCAD (3 titles)
 - AutoCAD Electrical; AutoCAD Mechanical
 - Plant Design
 - AutoCAD User Certification Exam Guide

Learning Objectives

- Create a Daylight system using the Sun Positioner
- Modify the parameters of the sun positioner to get a rendering at a given location
- Create renderings at different time of the day during different seasons
- Animate the movement of the sun to create a shadow study

Shadow Study

- How and where the shadows are cast
- Movement of the sun
- Position of the sun
- Used in:
 - Solar study
 - High rise development
 - Project planning of surrounding areas
 - Lighting and heating of buildings





Shadow Study

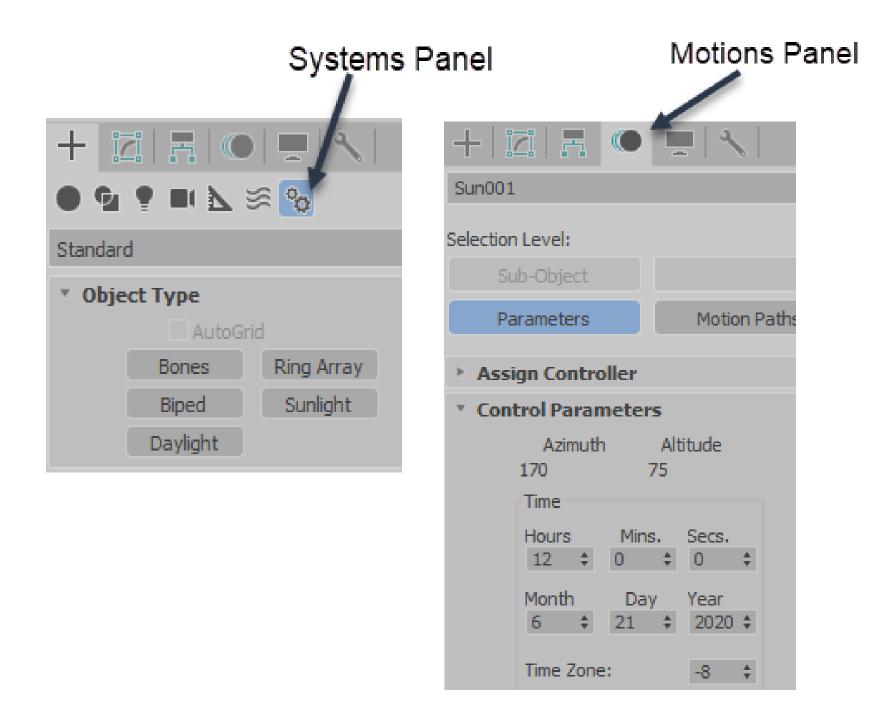
SHADOW STUDY IN 3DS MAX

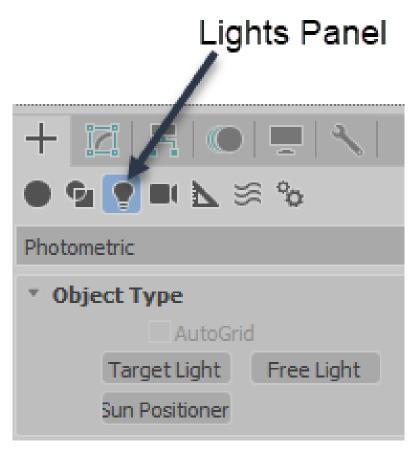
- Create a Daylight system
- Animate the sun object

DAYLIGHT SYSTEM IN 3DS MAX

- Sun Positioner
- Sunlight and Skylight system

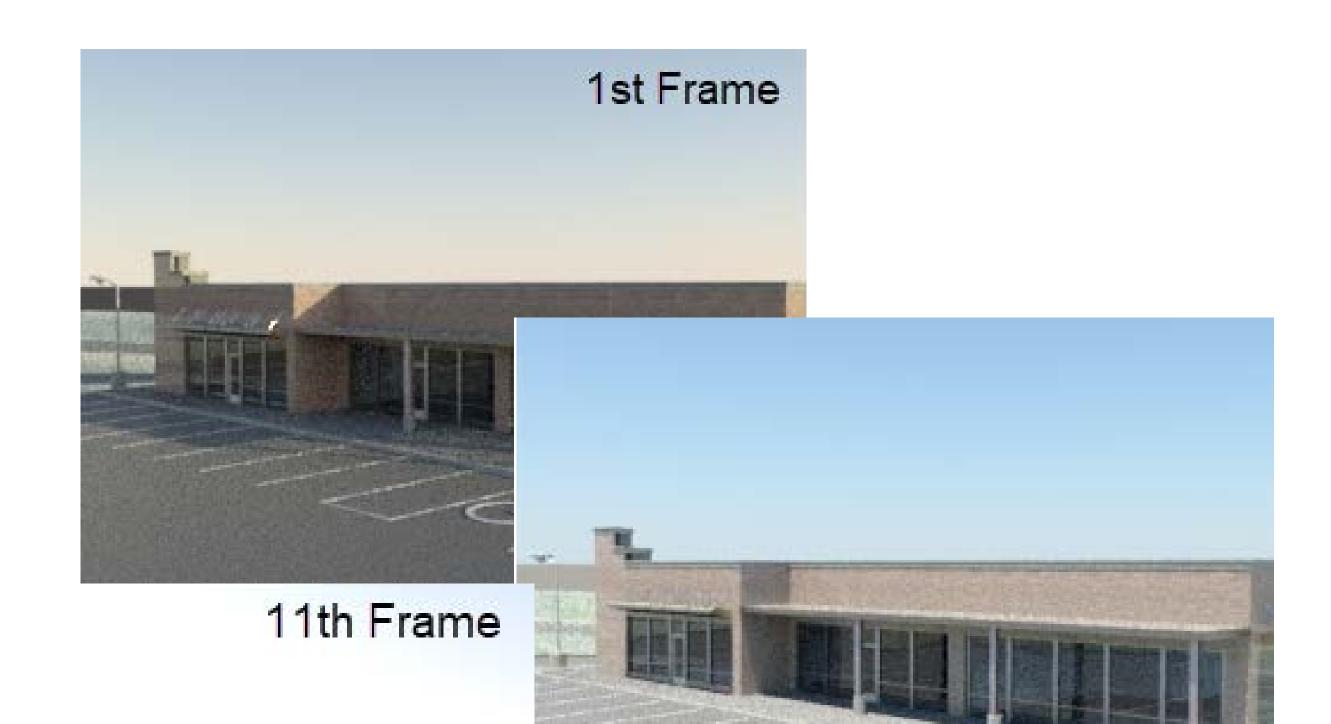






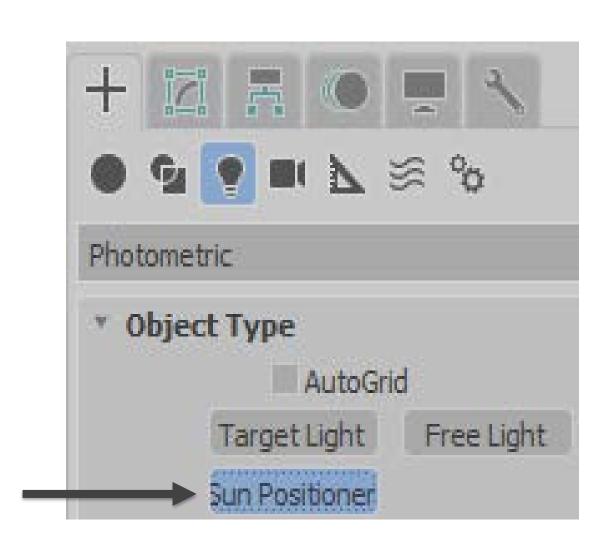


- Realistic sunlight
- Full sky environment
- Geographically correct position
- Environment map
- Exposure control

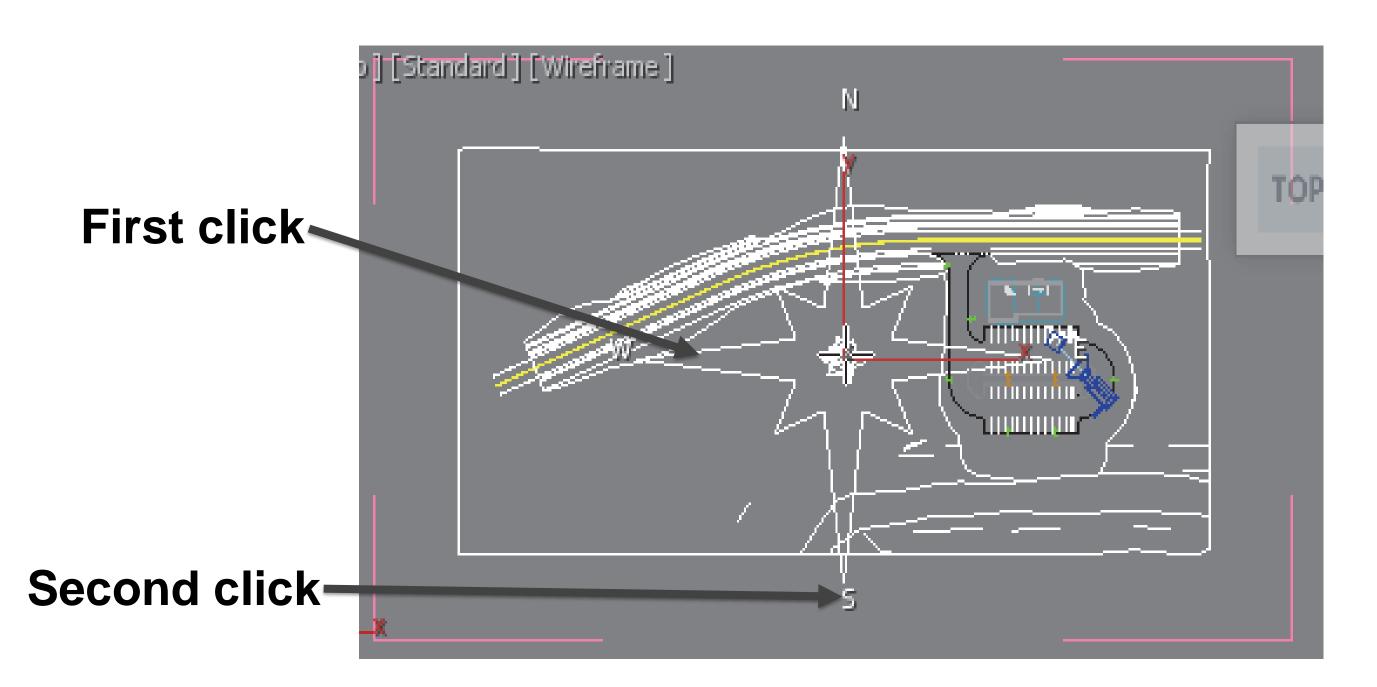


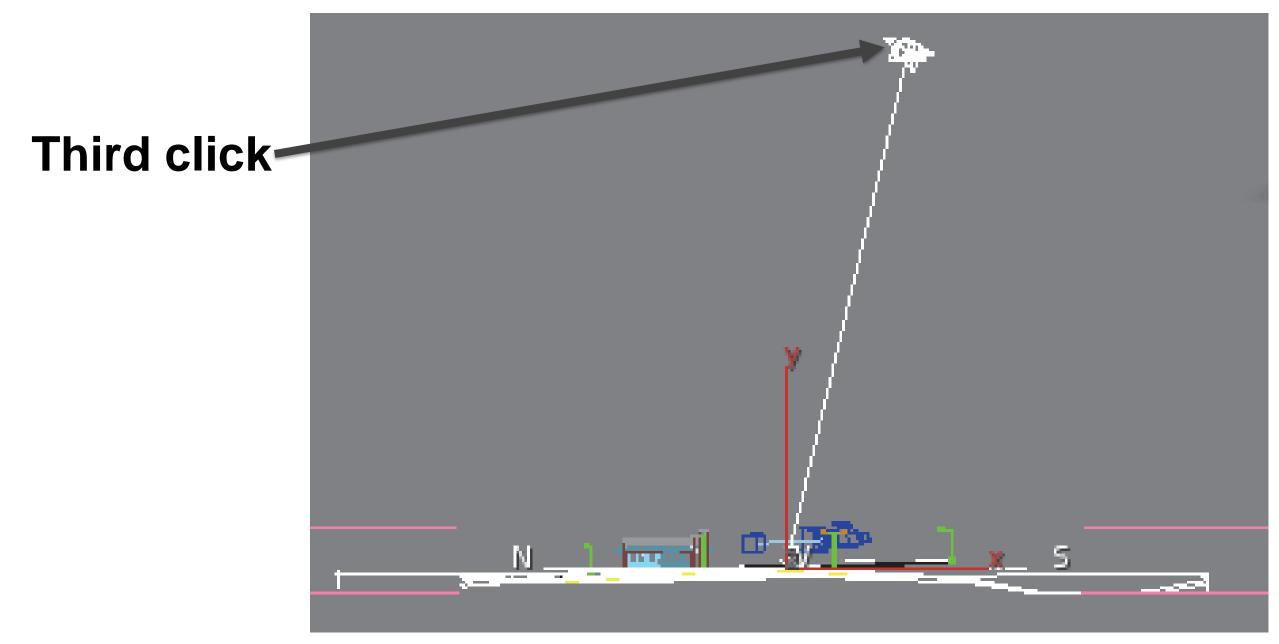
6th frame

- Create panel (+) > Lights
- Object Type rollout
- Sun Positioner



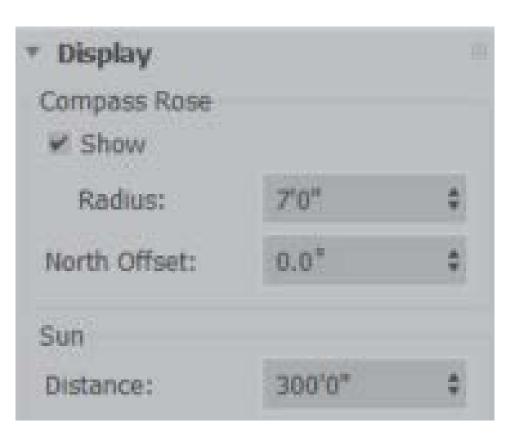
- Compass Rose
- Sun Orientation
- Sun Distance

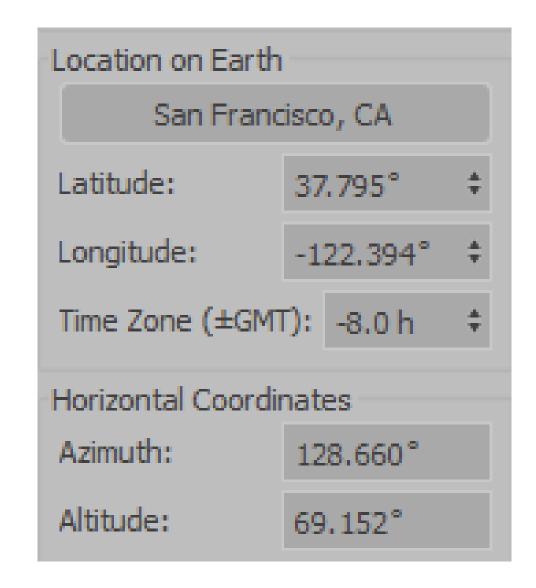


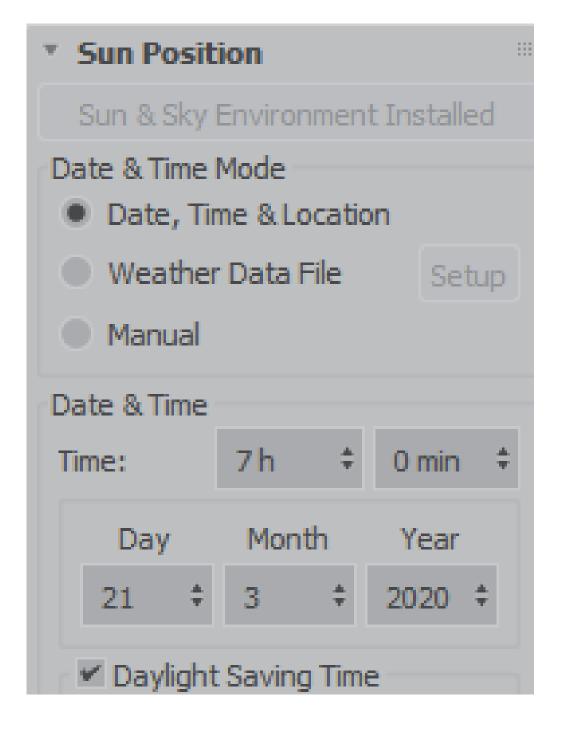




- Display rollout
- Sun Position rollout
- Date & Time
- Location on Earth



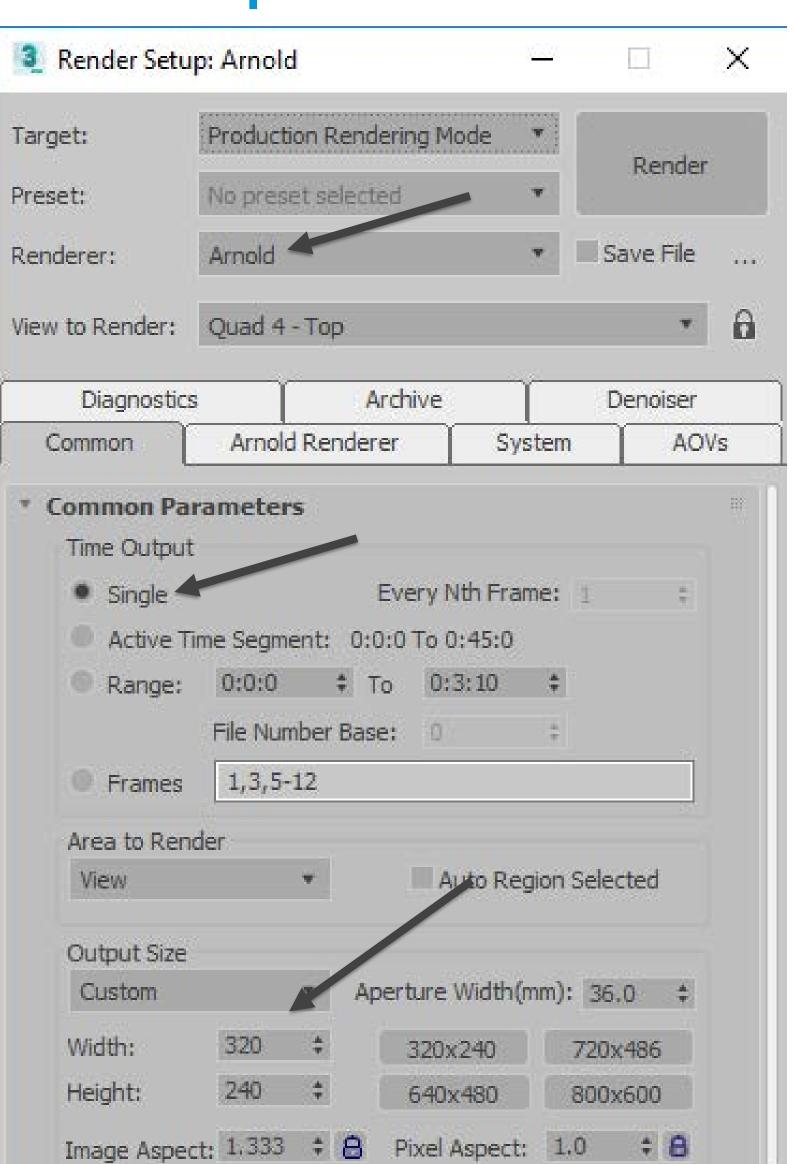






Render Setup

- (Render Setup)
- Renderer
- Time Output
- Output Size



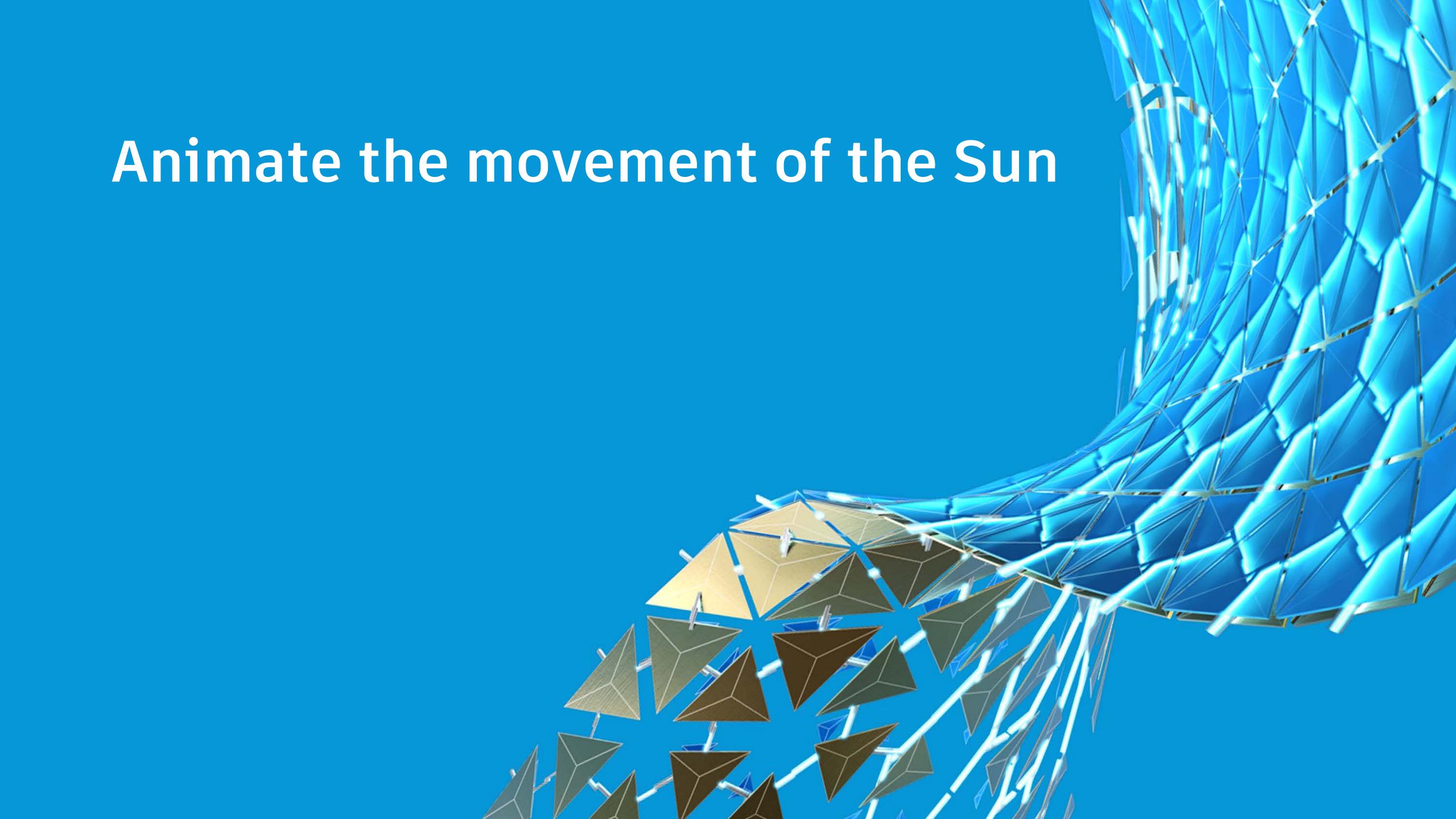
Rendered still images



7 a.m in June

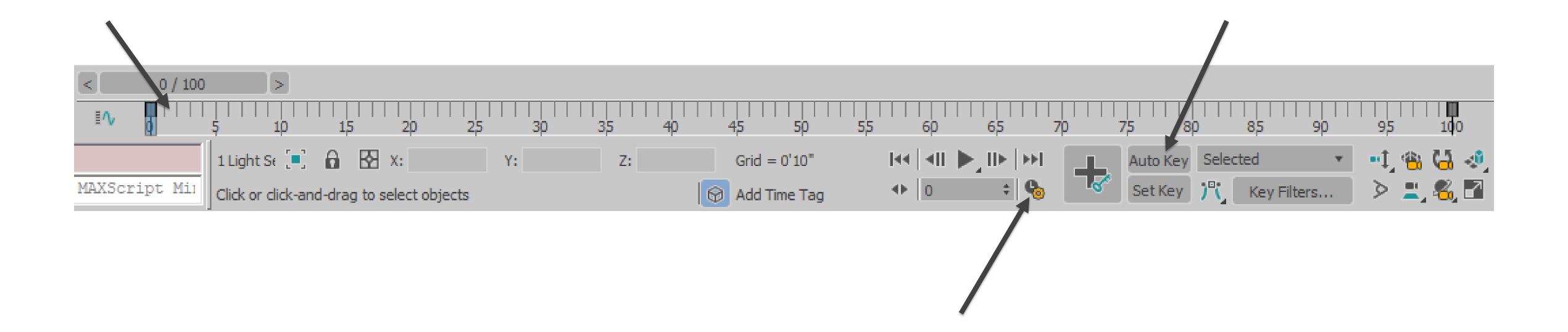


7 p.m. in June



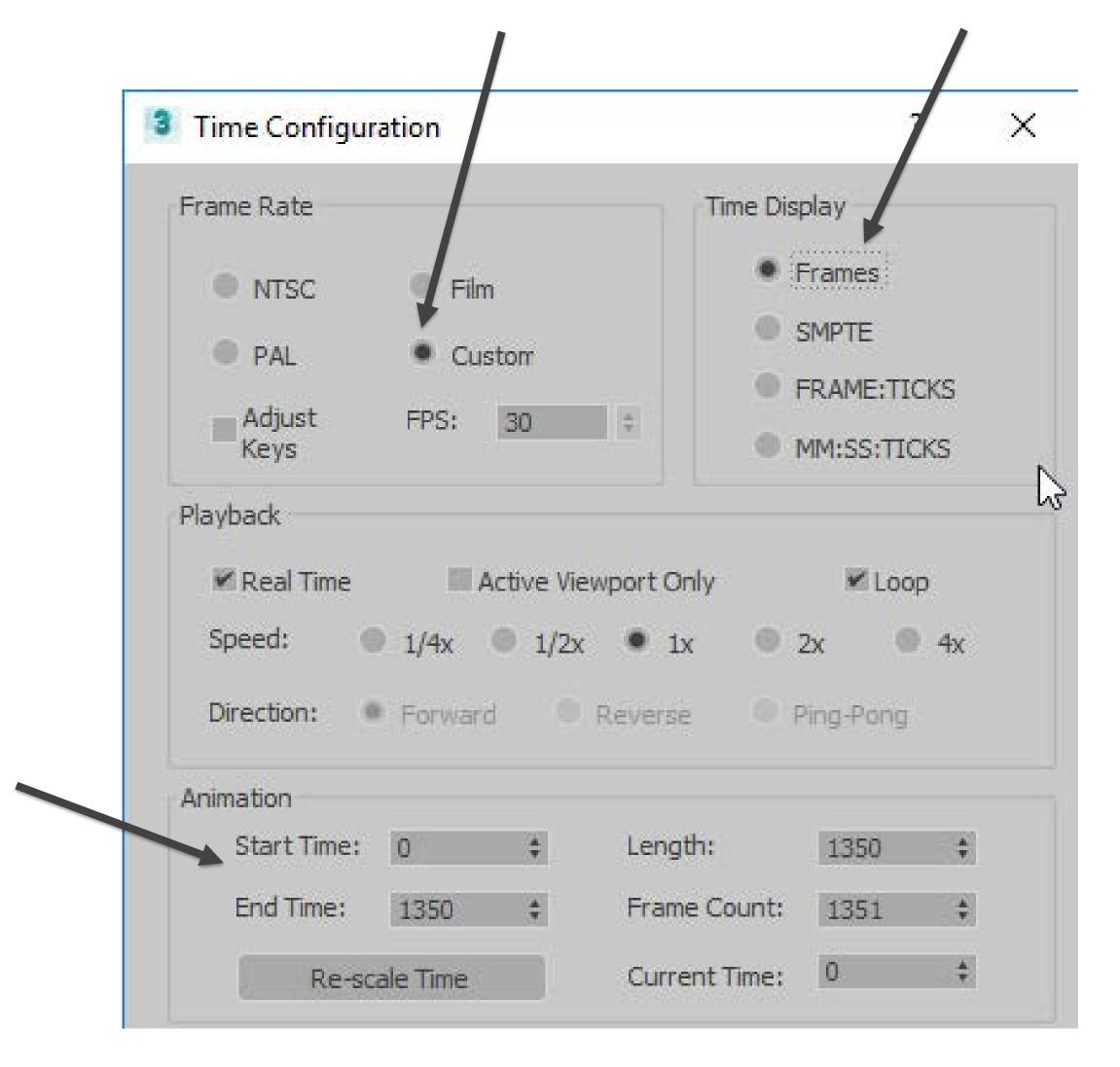
Animation Controls and Slider Bar

- Auto Key
- Time Configuration
- Slider Bar



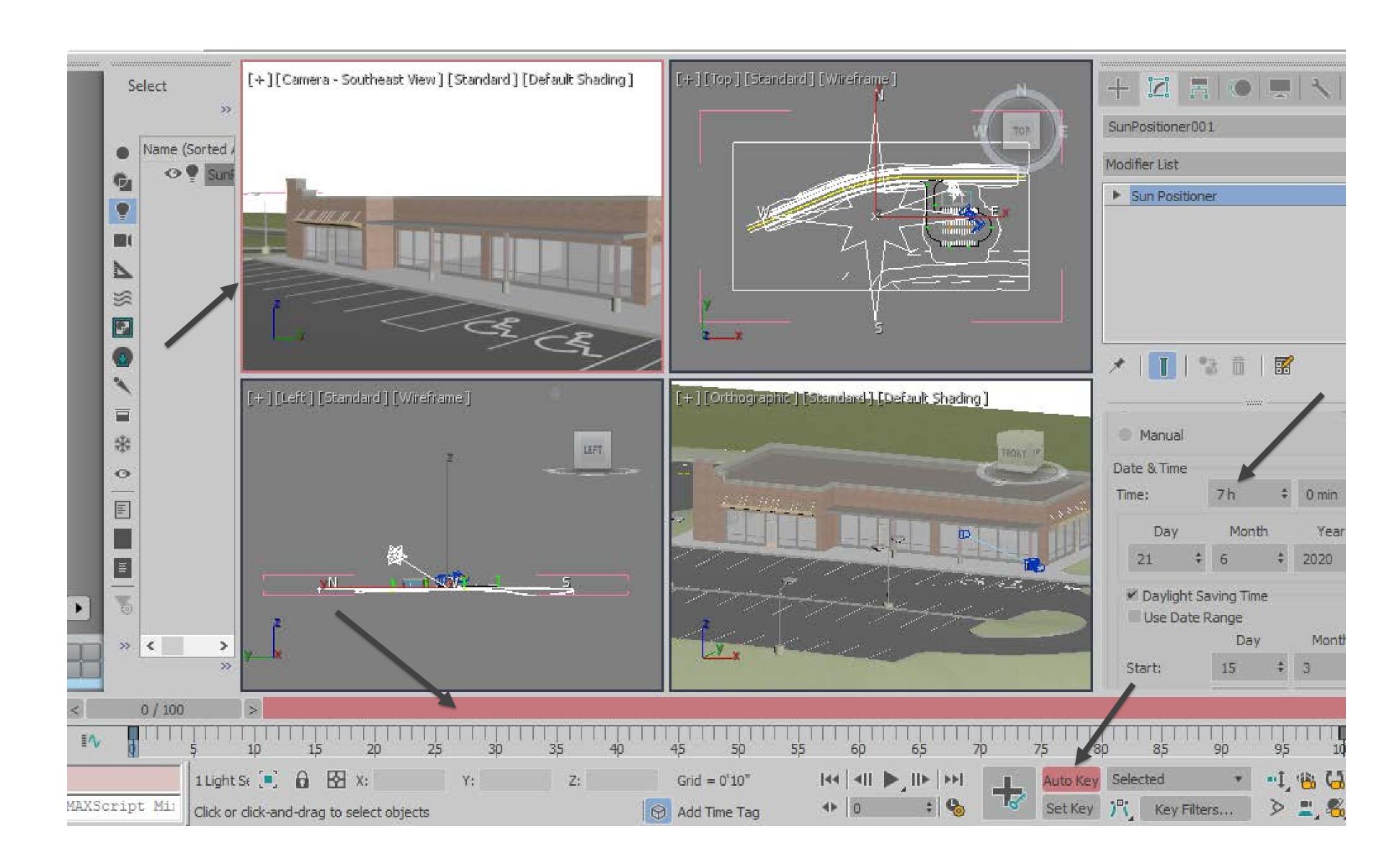
Time Configuration

- Time Configuration
- Frame Rate
- Time Display
- Animation



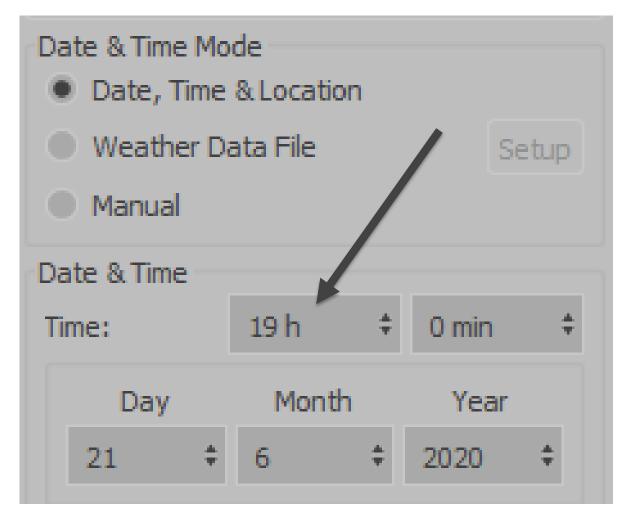
Animation Controls

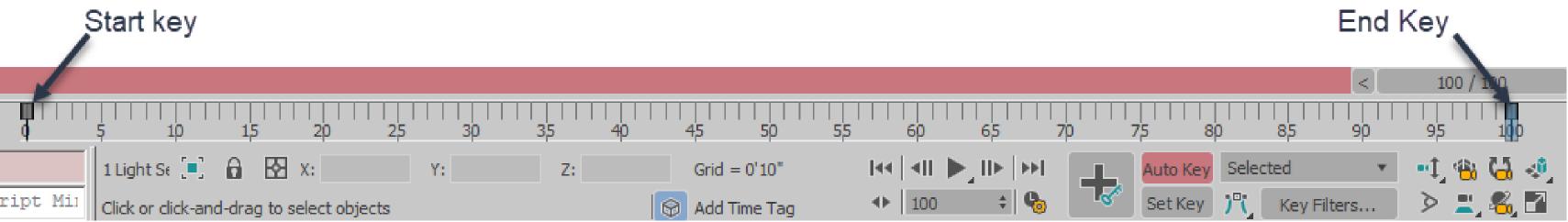
Auto Key



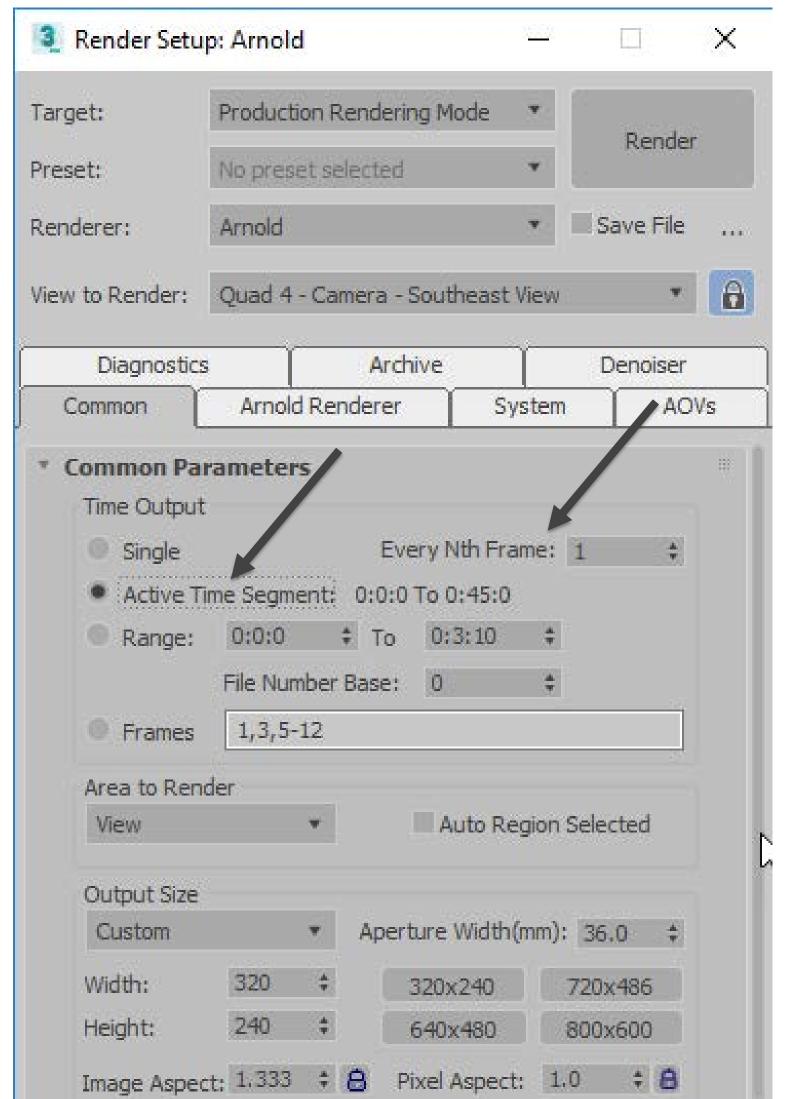
Animation Controls

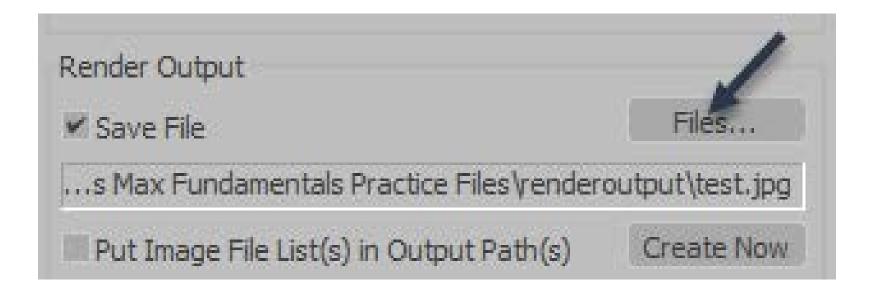
Auto Key





Saving the Animation







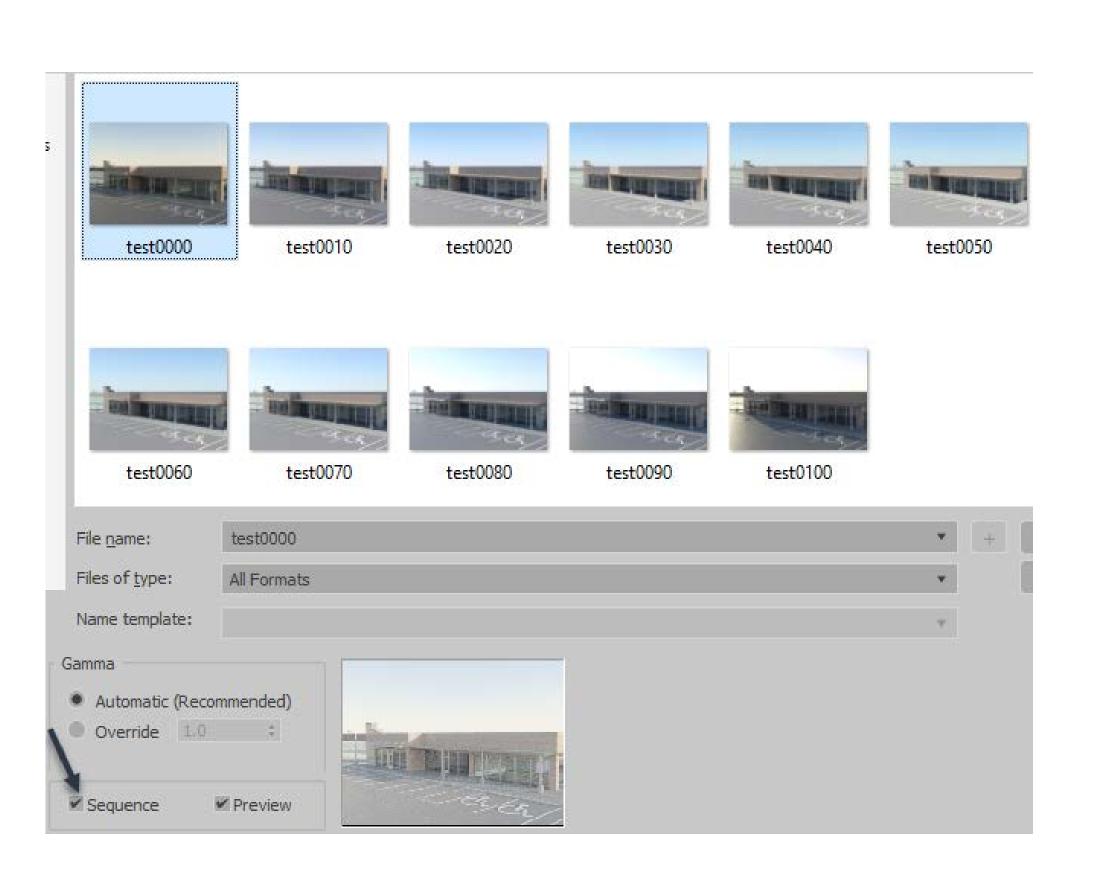


Compiling the Animation

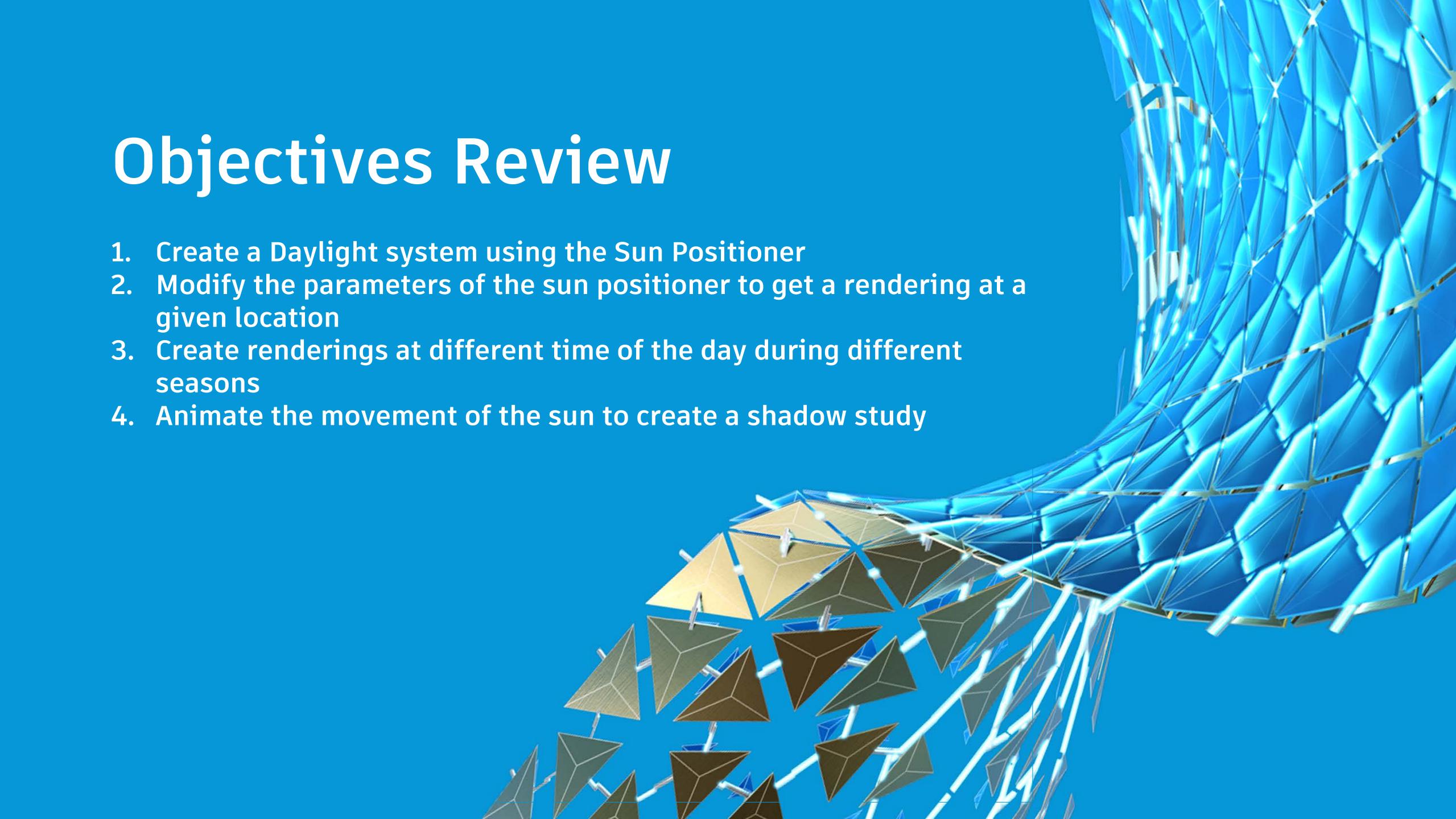
Channel A: 🕳 🧐 💥 📙 | Channel B: 🗁 🧐 💥 📙

RAM Player

RAM Player











THANK YOU!





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