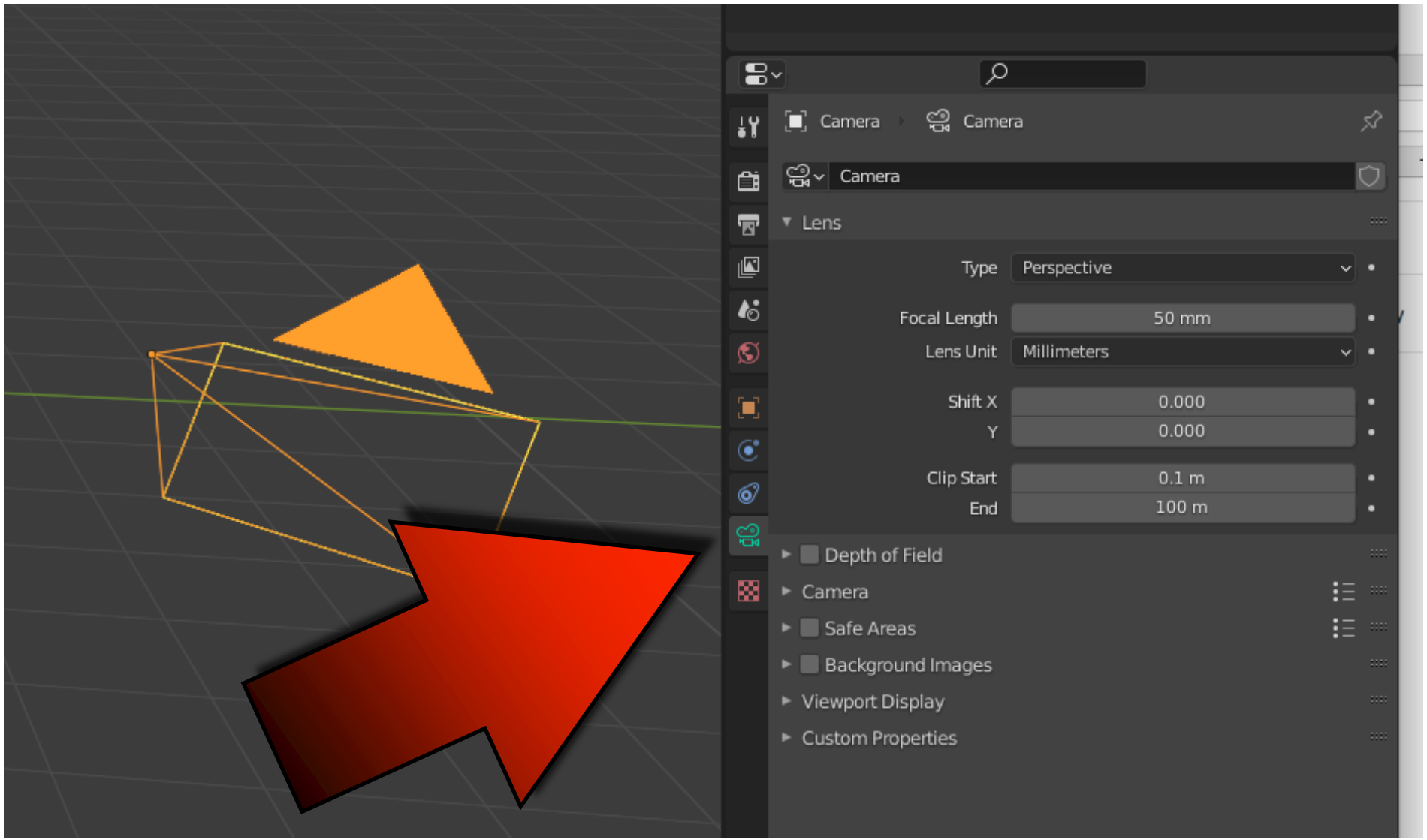
POWER OF AR AND VR

CAMERA

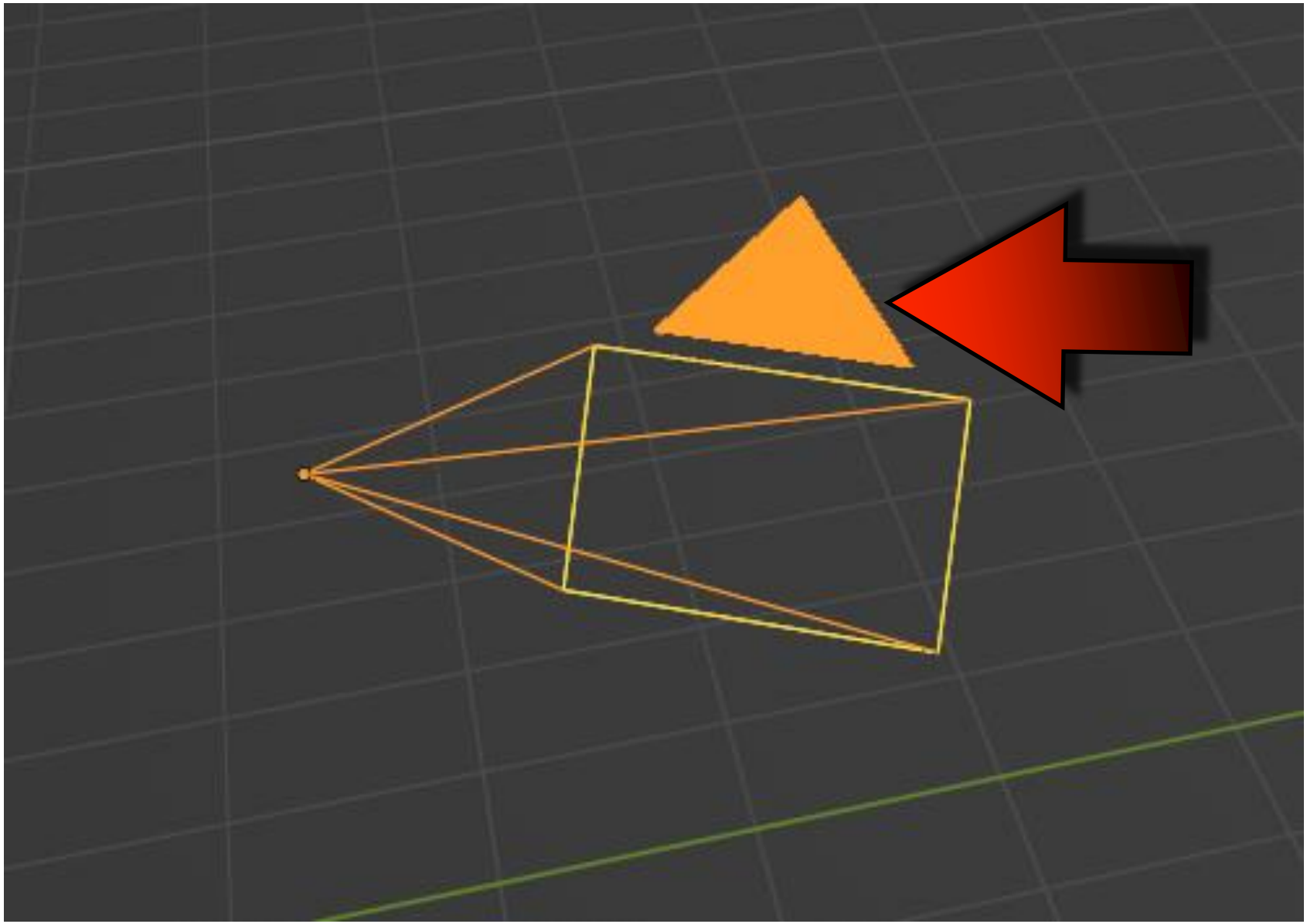
Co-funded by
the European Union

JACEK KAWAŁEK

HERE ARE THE PROPERTIES OF THE CAMERA



THE TRIANGLE MEANS THE TOP OF THE CAMERA

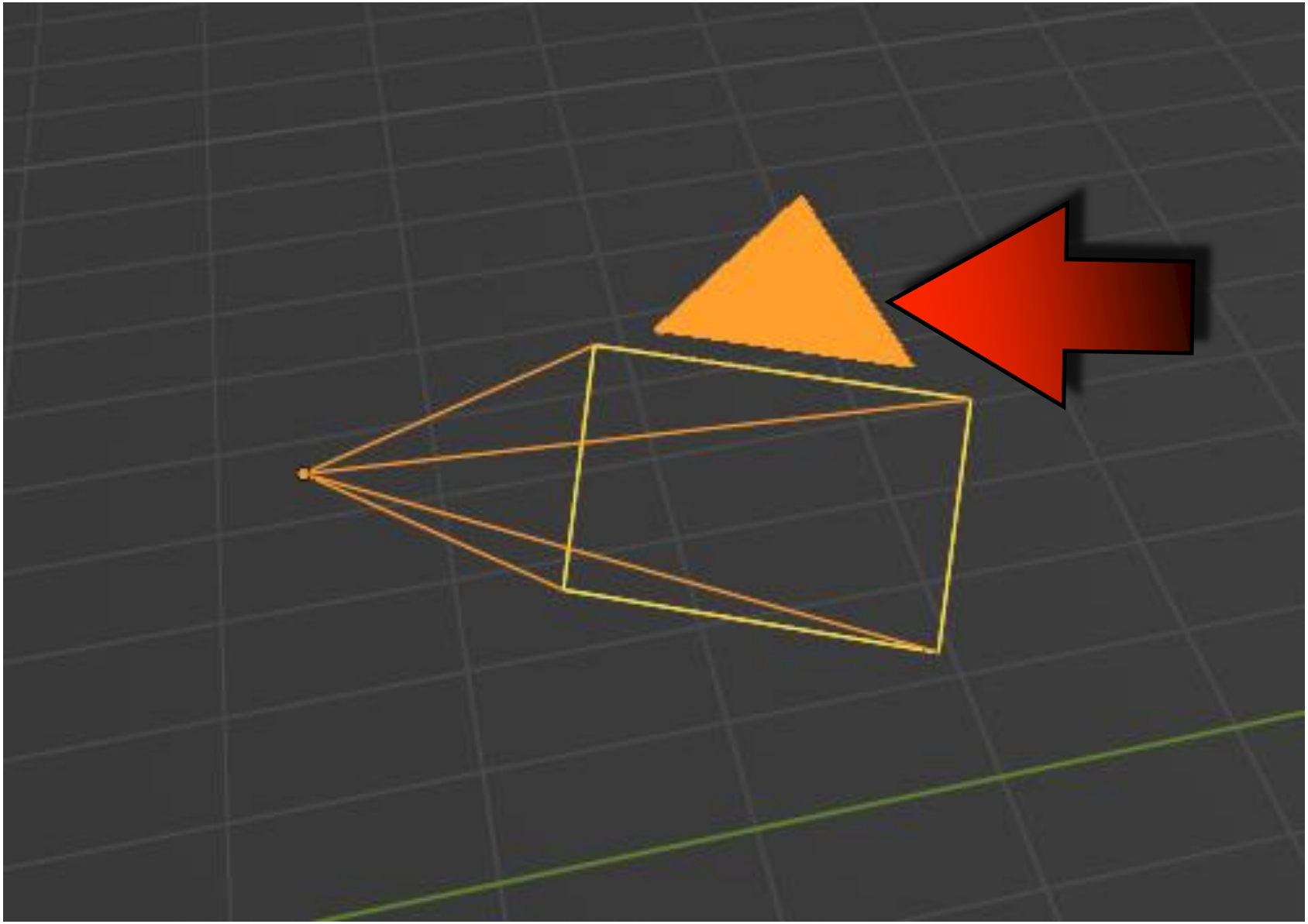


CAMERA

Co-funded by the European Union

POWER OF AR AND VR

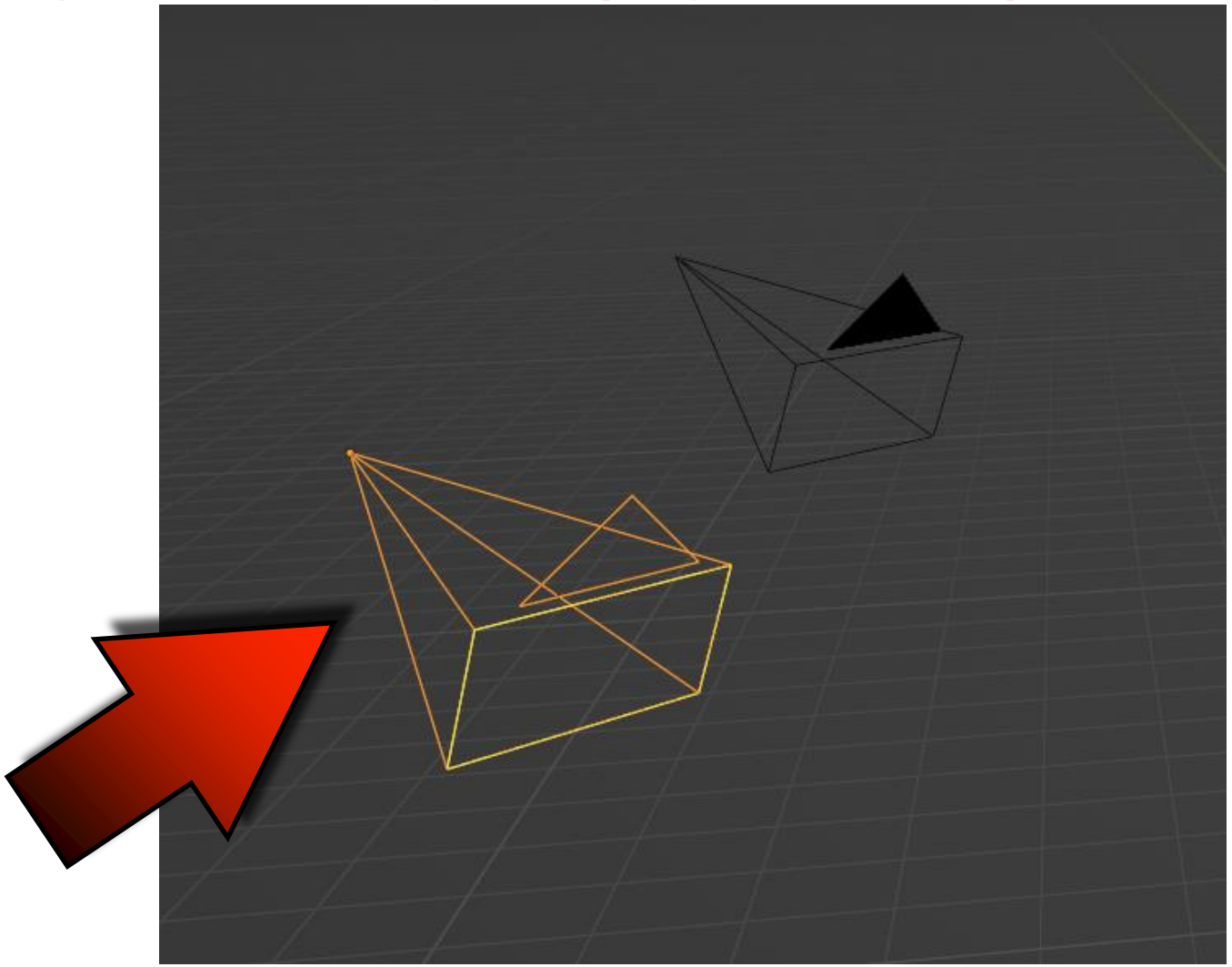
FILLING OUT MEANS THAT THIS CAMERA IS ACTIVE



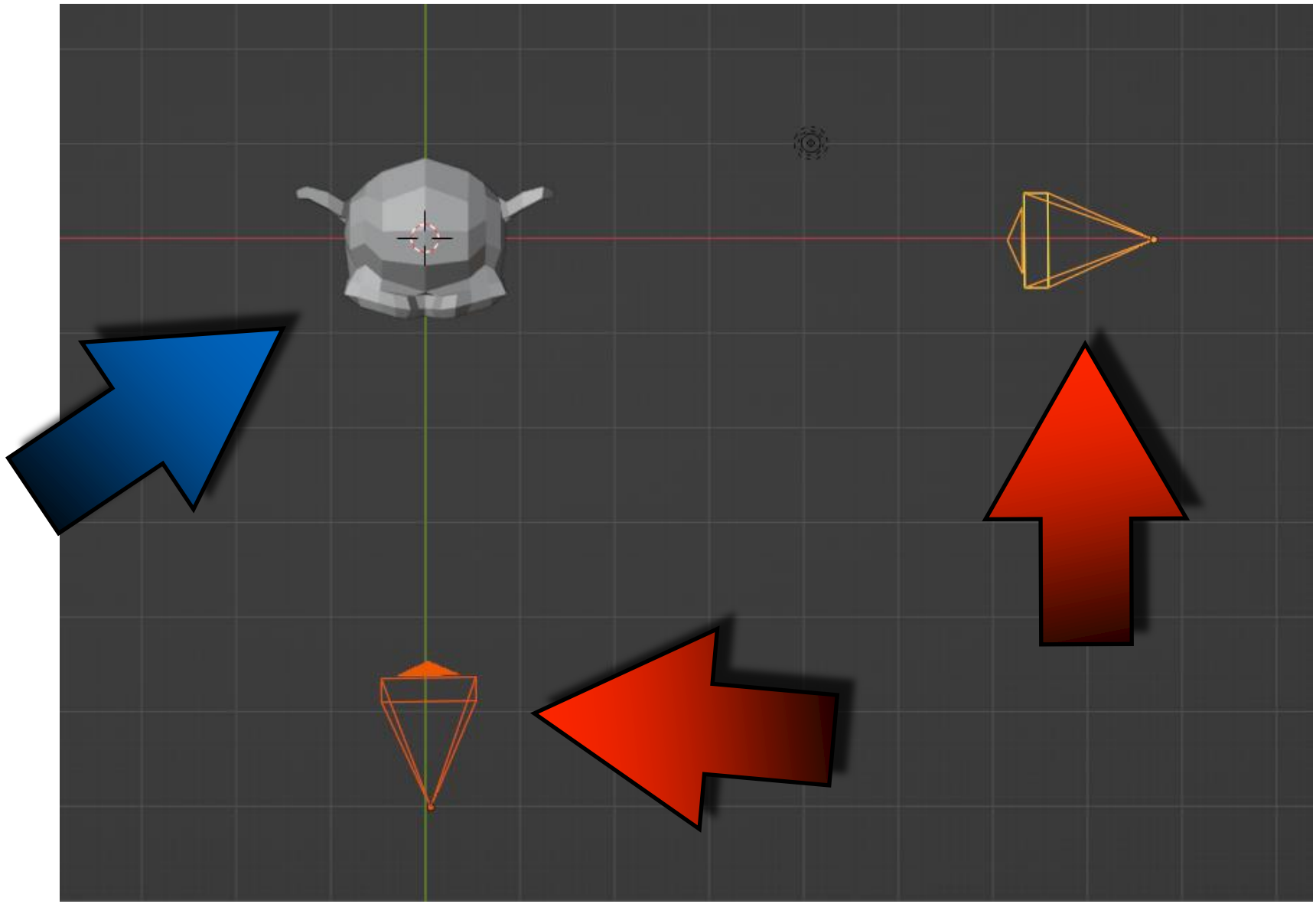
CAMERA

USE SHIFT + D

INSERT SECOND CAMERA

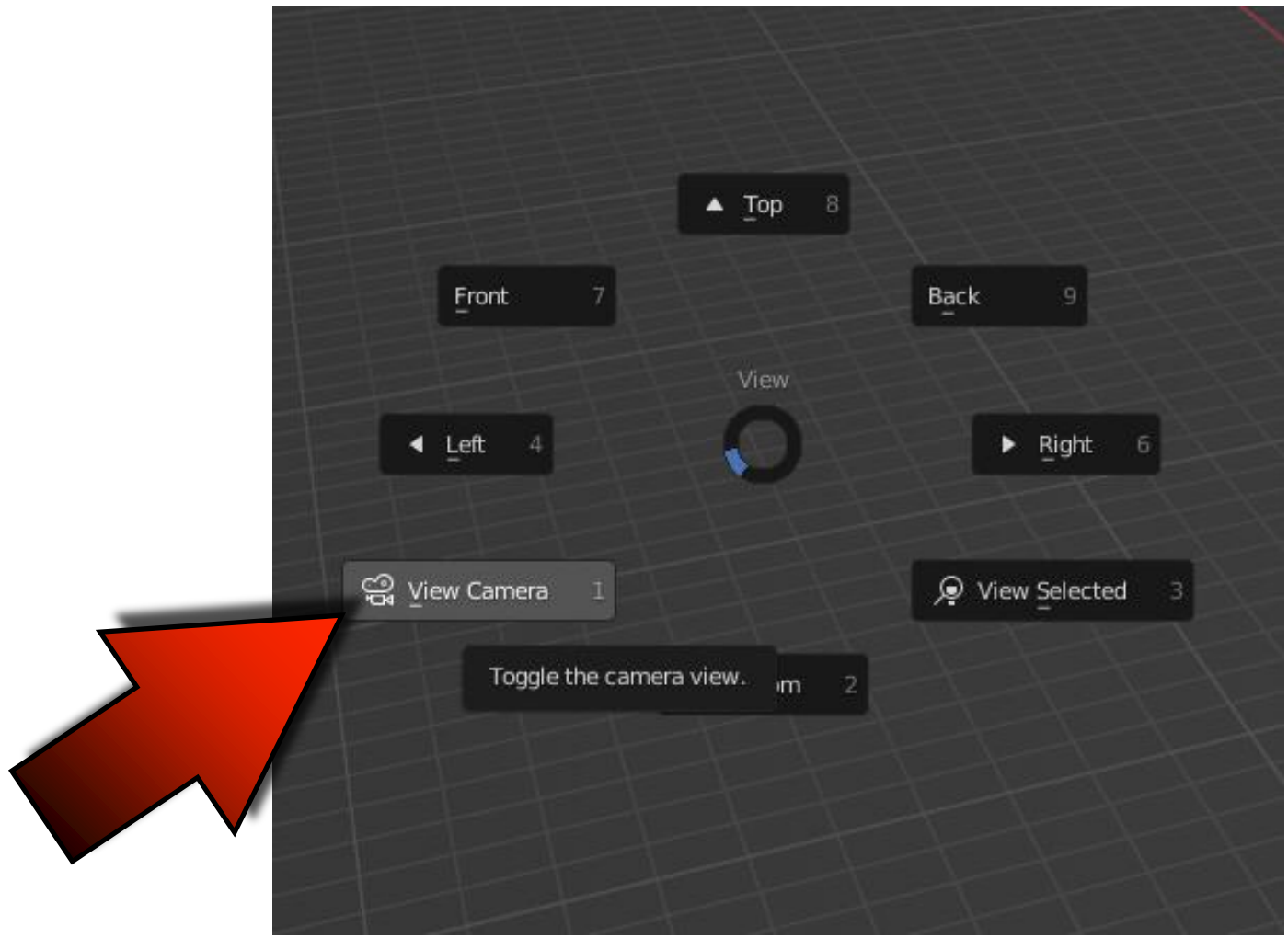


INSERT MONKEY AND SET CAMERAS AS ON SCREEN

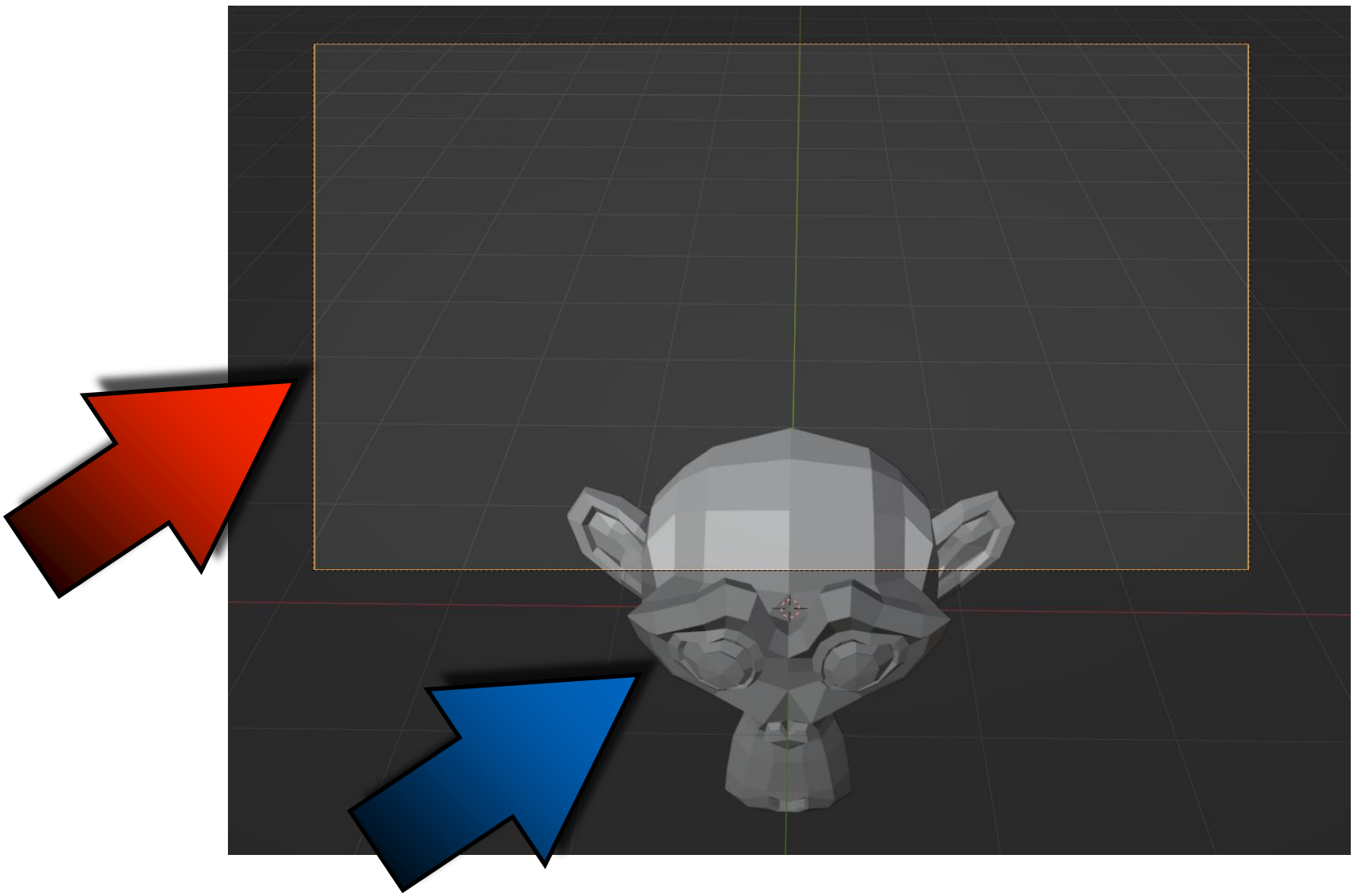


CAMERA

TO SEE THE VIEW FROM THE CAMERA
PRESS 0 FROM THE NUMBER KEYPAD
OR CHOOSE VIEW CAMERA

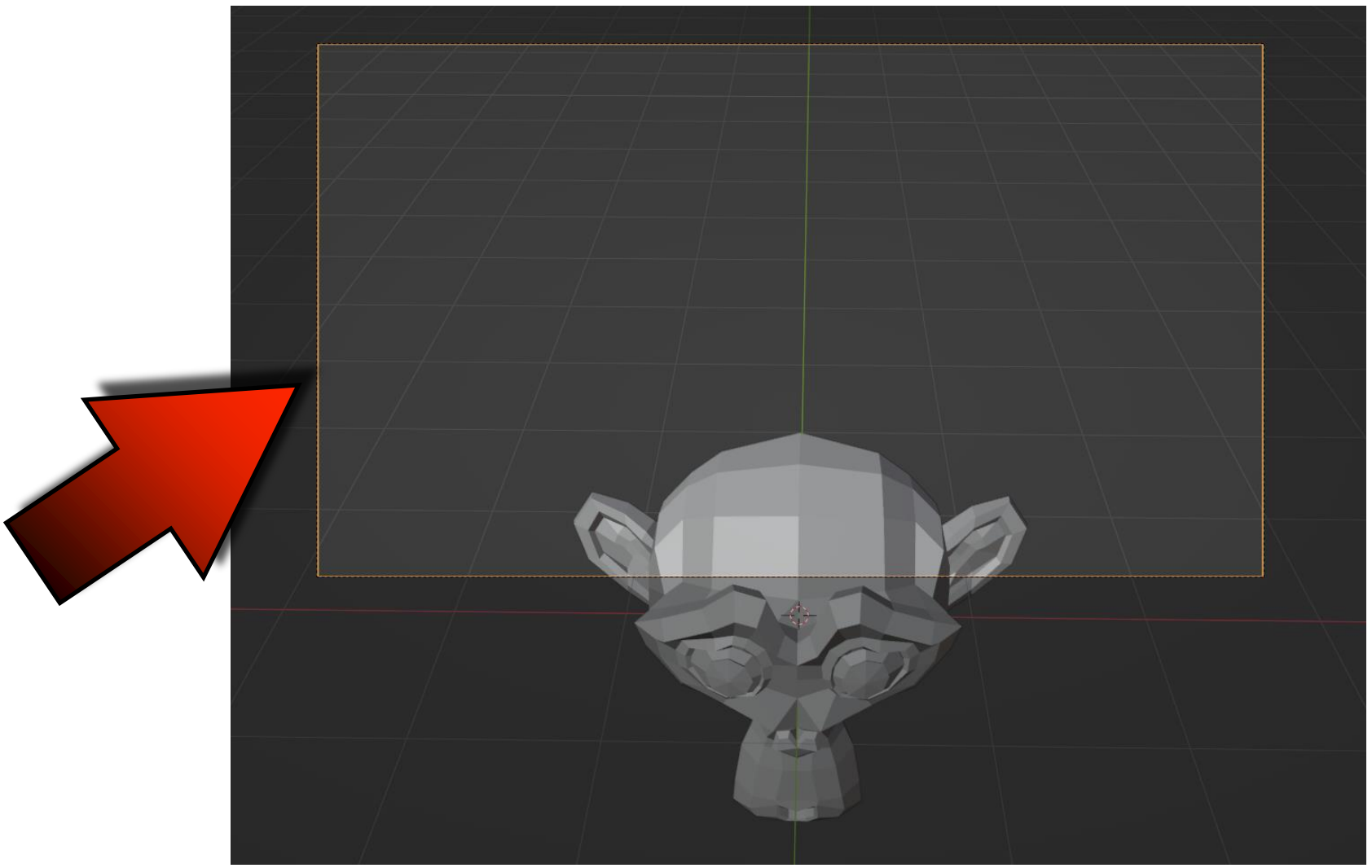


THE MODEL IS OUT OF THE CAMERA



CAMERA

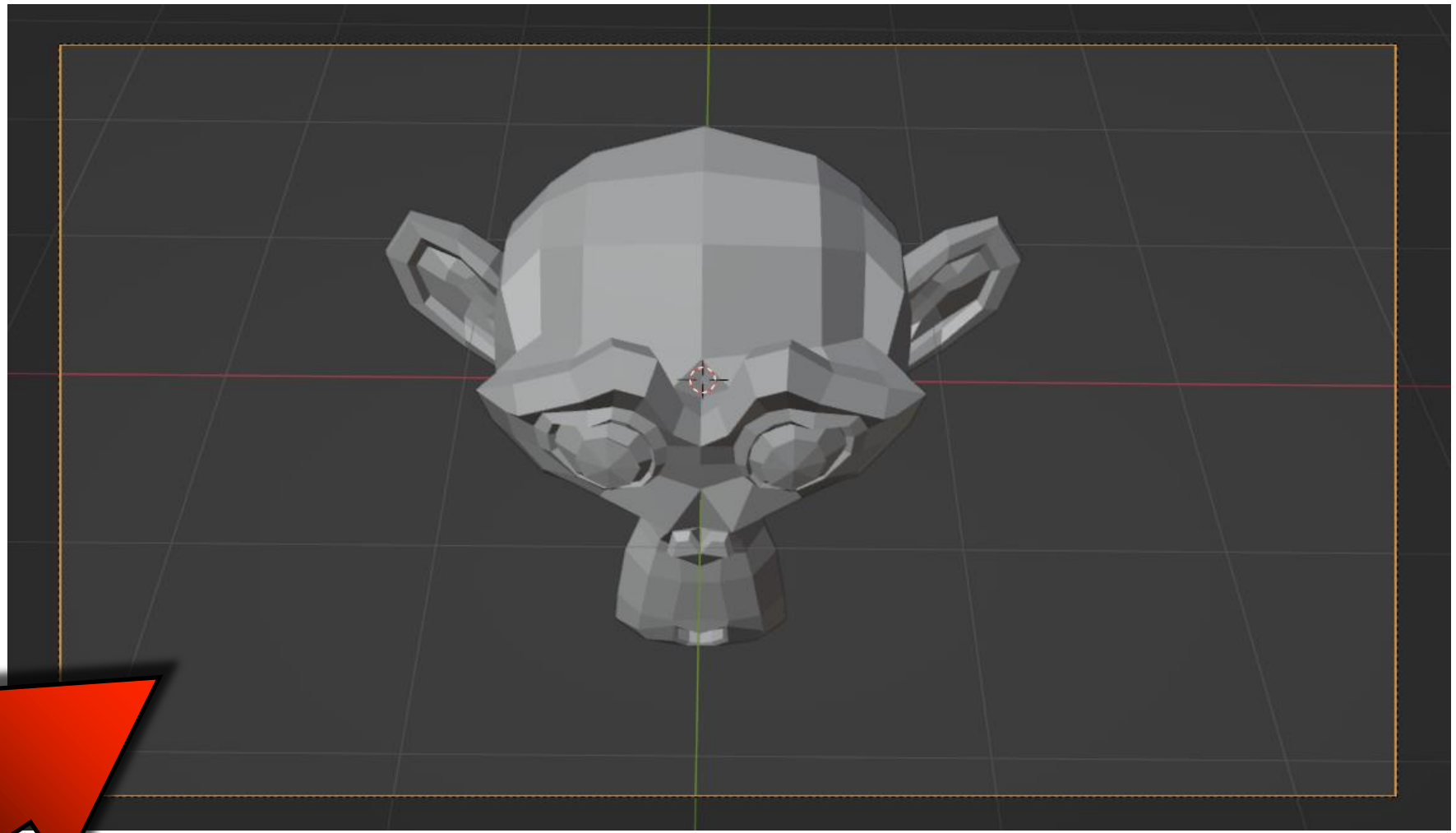
SELECT THE CAMERA



Co-funded by the European Union

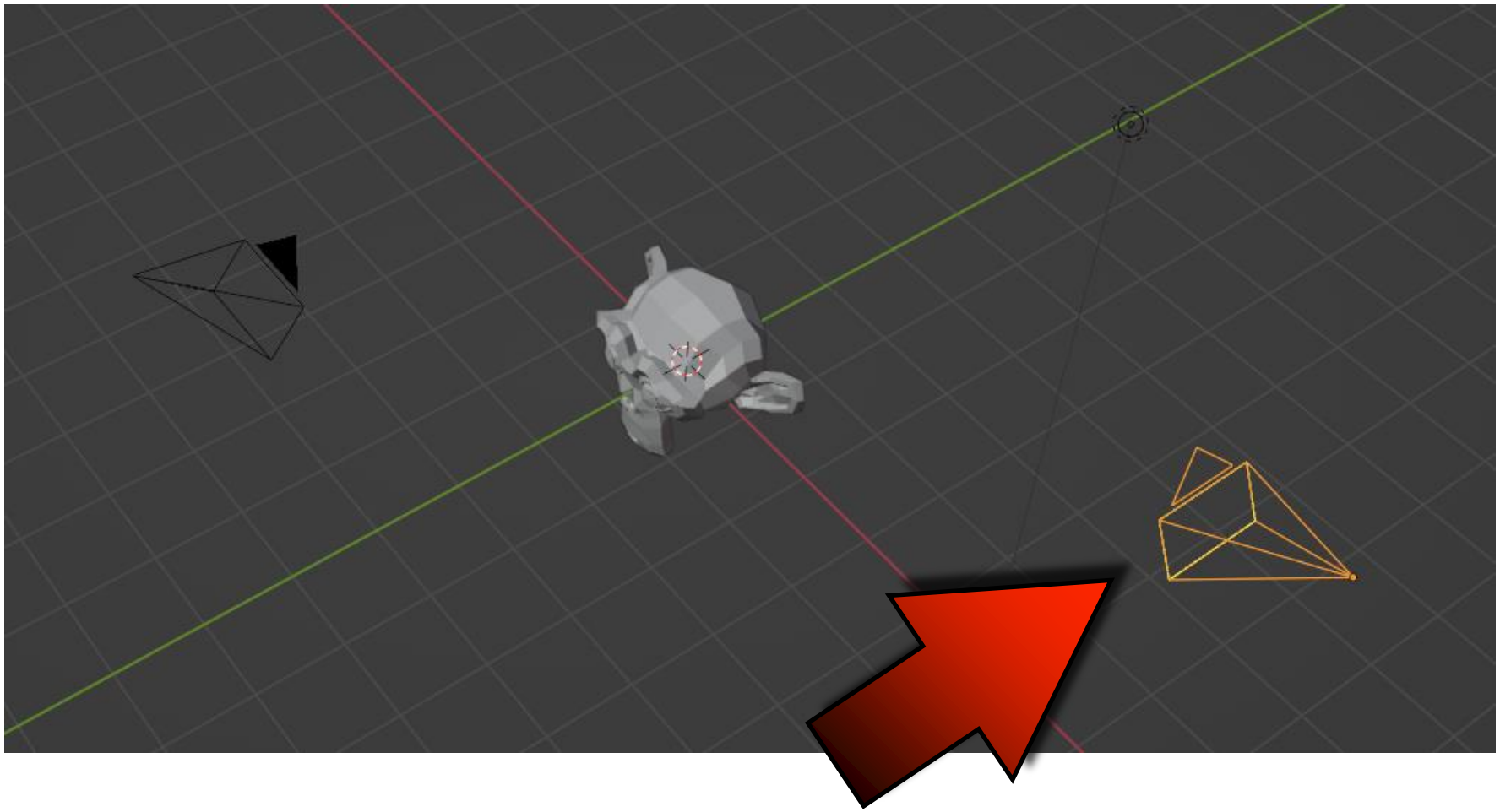
POWER OF AR AND VR

PRESS THE R KEY TWICE
AND SET WITH THE MOUSE CORRECT VIEW



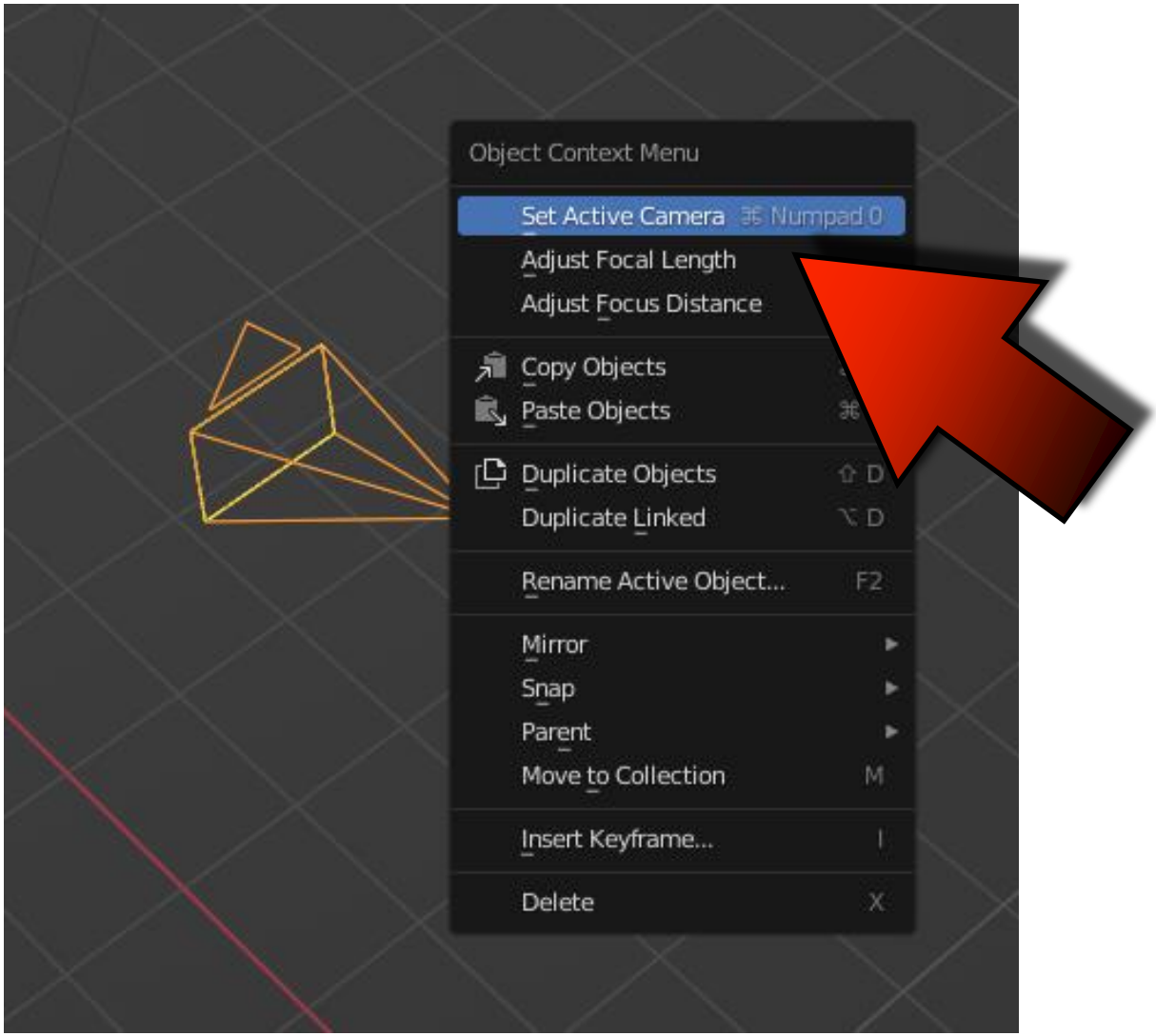
CAMERA

SELECT SECOND CAMERA TO SWITCH VIEW



CAMERA

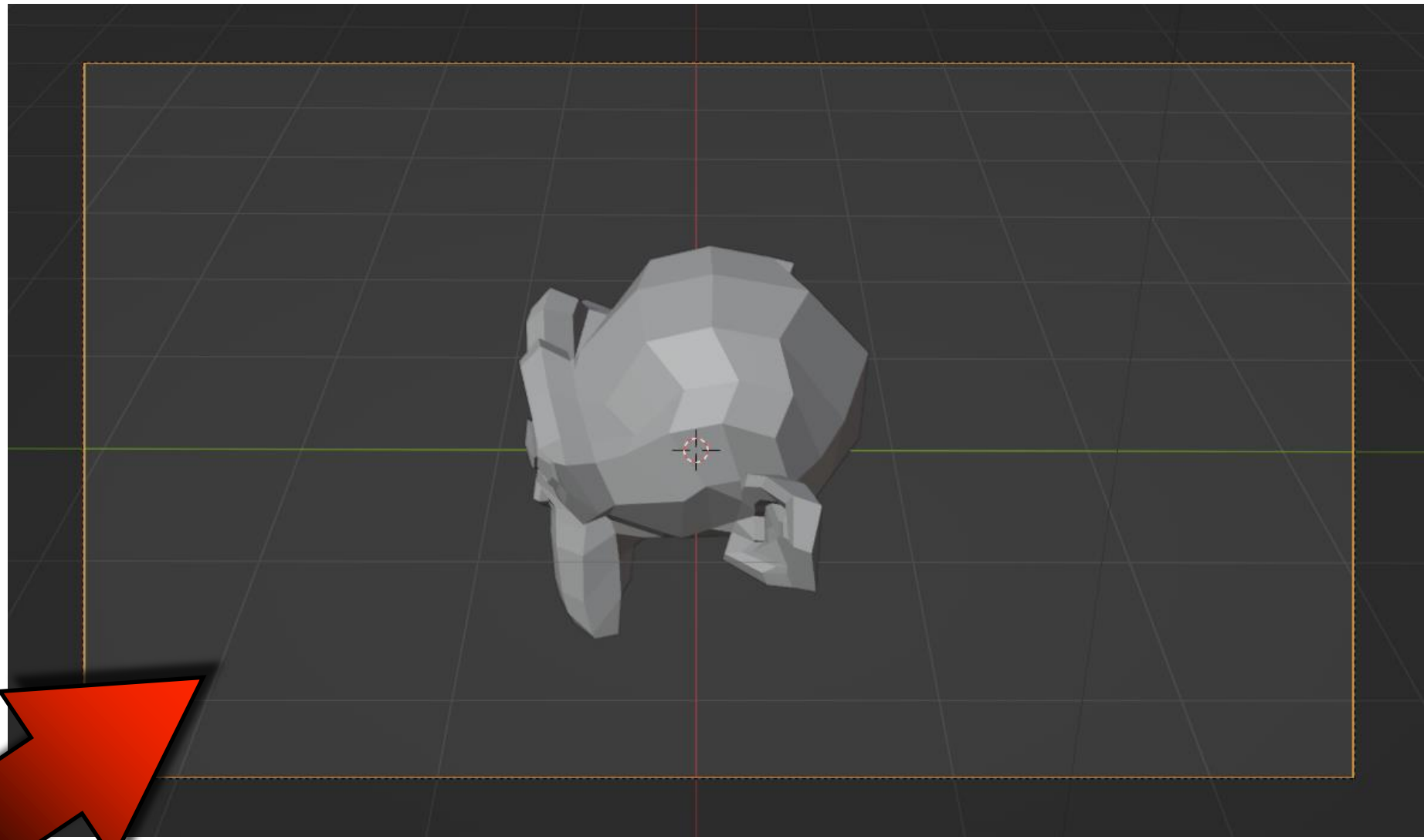
PRESS CTRL + 0 FROM THE NUMBER KEYPAD OR CHOOSE SET ACTIVE CAMERA



Co-funded by the European Union

POWER OF AR AND VR

WE SEE THE MODEL FROM THE SIDE



CAMERA

START ANIMATION

WE CAN STANDARD
MOVE THE CAMERA WITH THE G, R KEY S

YouTube

https://youtu.be/NqrsGId8wWs

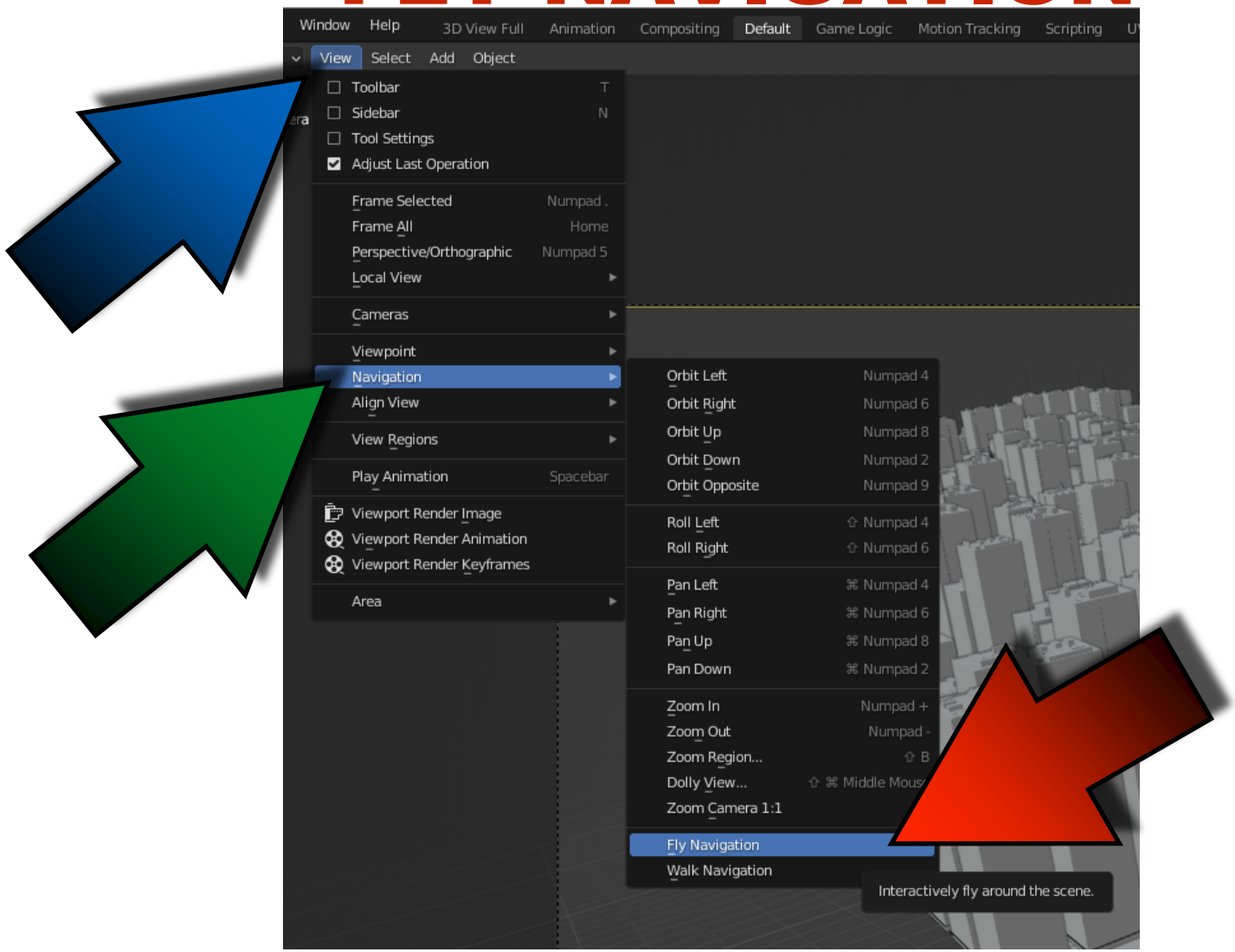
START ANIMATION

PRESS G AND THEN TWO TIMES Z
THIS GIVES A ZOOM EFFECT

https://youtu.be/_w1d-qFDCSQ

WE HAVE TWO WAYS TO NAVIGATE

FLY NAVIGATION



START ANIMATION

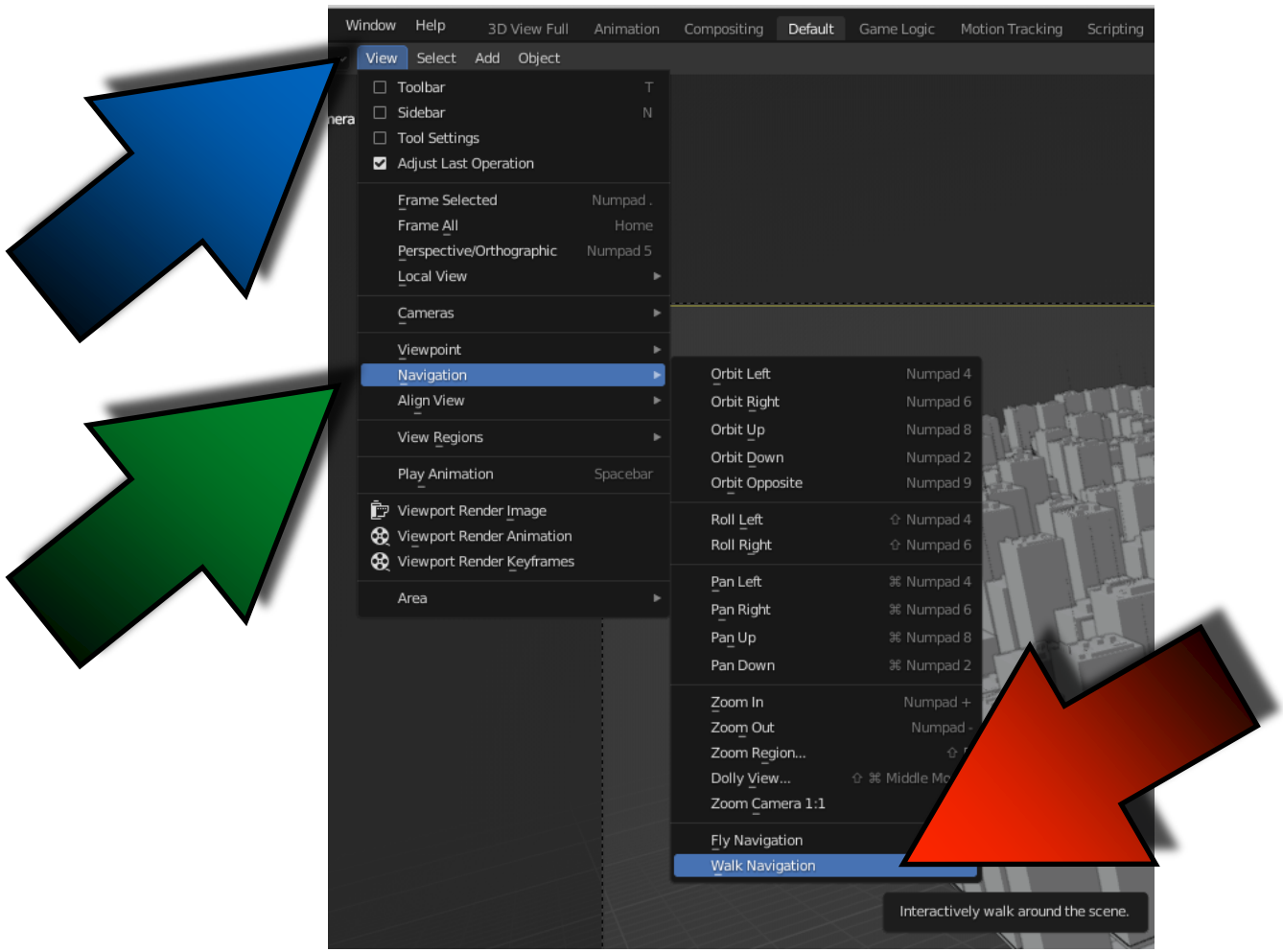
EXAMPLE FLY NAVIGATION

YouTube

https://youtu.be/Eon5hNIRvVg

AND

WALK NAVIGATION



START ANIMATION

EXAMPLE WALK NAVIGATION

YouTube

https://youtu.be/vmVbGziOMT0

Co-funded by the European Union

POWER OF AR AND VR

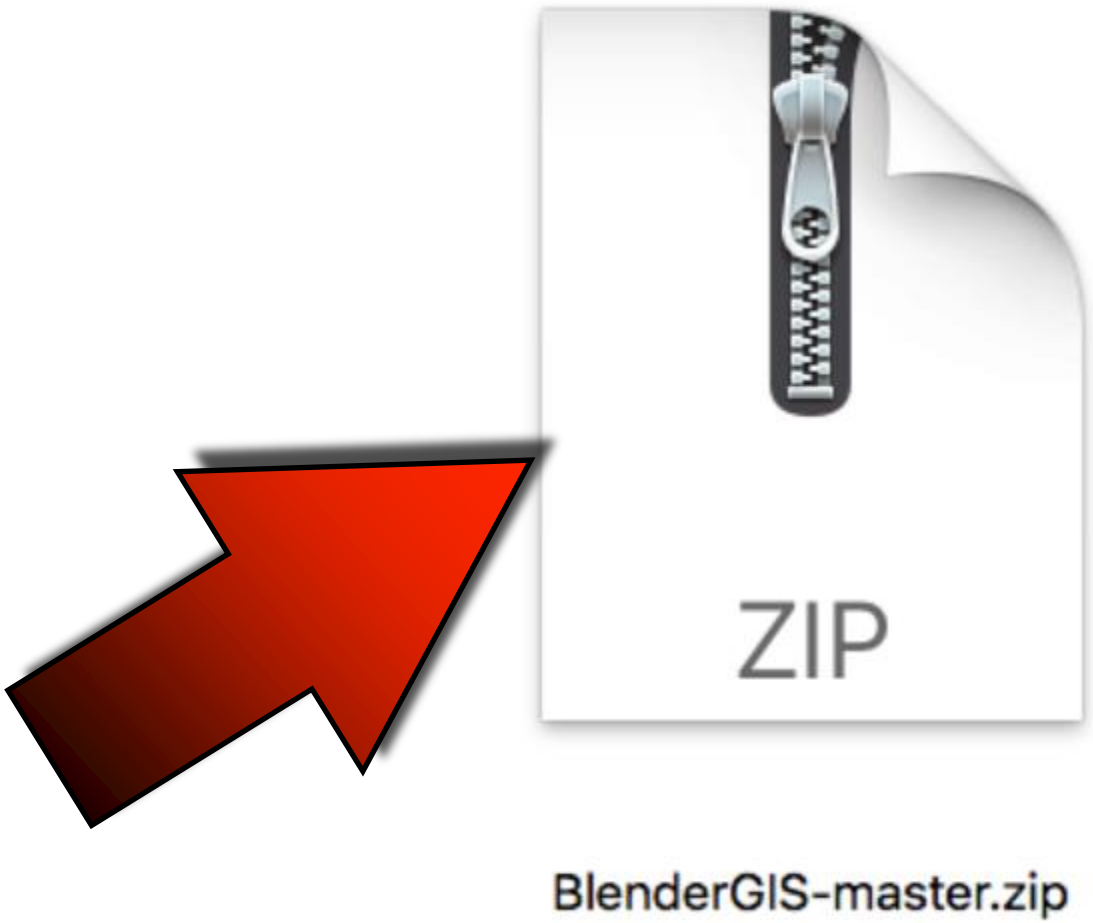
TO CONTROL WE USE THE ARROWS OR KEYS W, A, S, D AND MOUSE

CAMERA

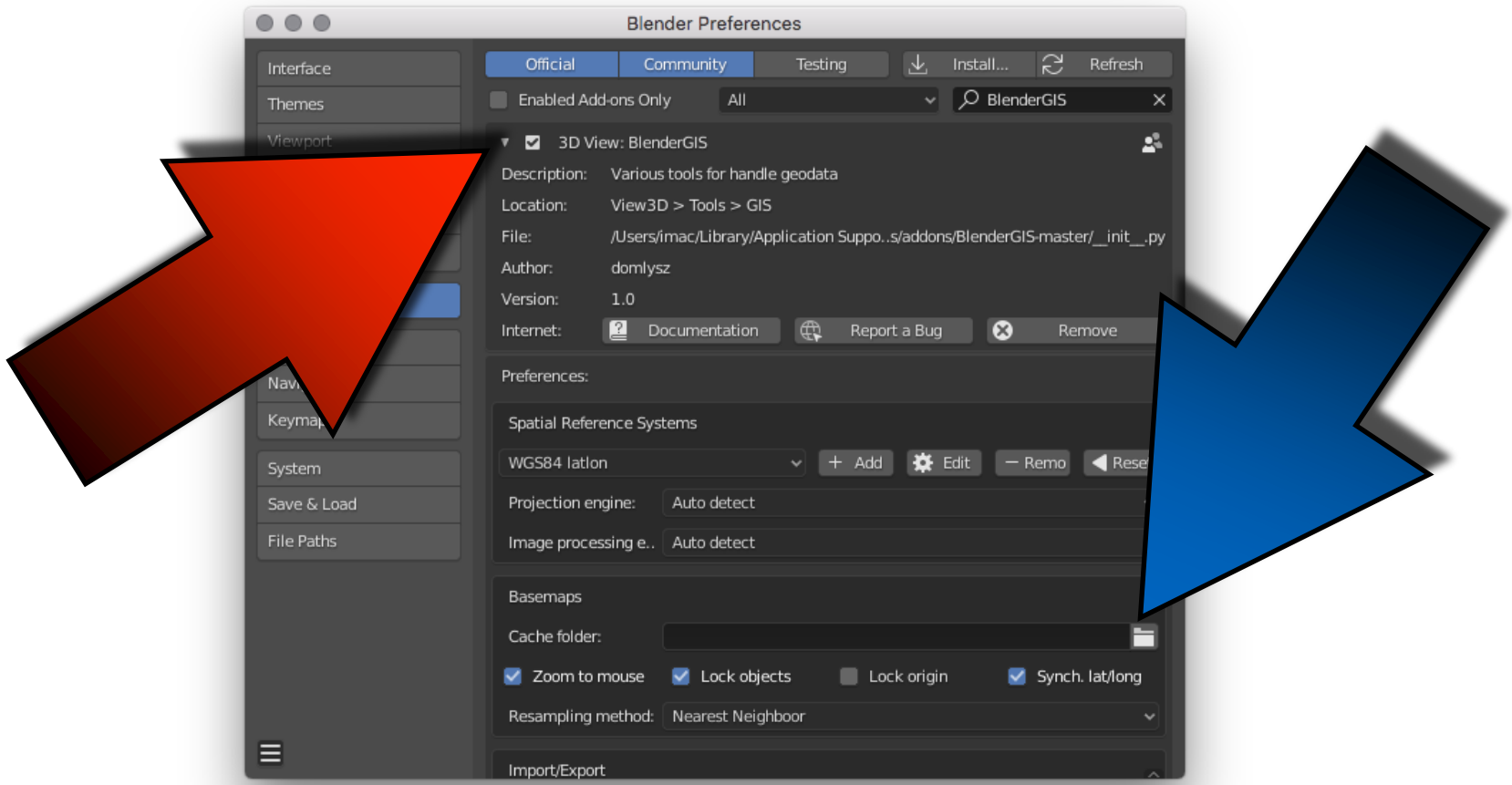
WALK MODE IS FREQUENTLY USED IN COMPUTER GAMES FOR EXAMPLE TOMB RAIDER

IN THE WAY, I WILL PRESENT HOW QUICKLY YOU CAN GENERATE ANY CITY

WE WILL INSTALL THE GIS ADD-ON

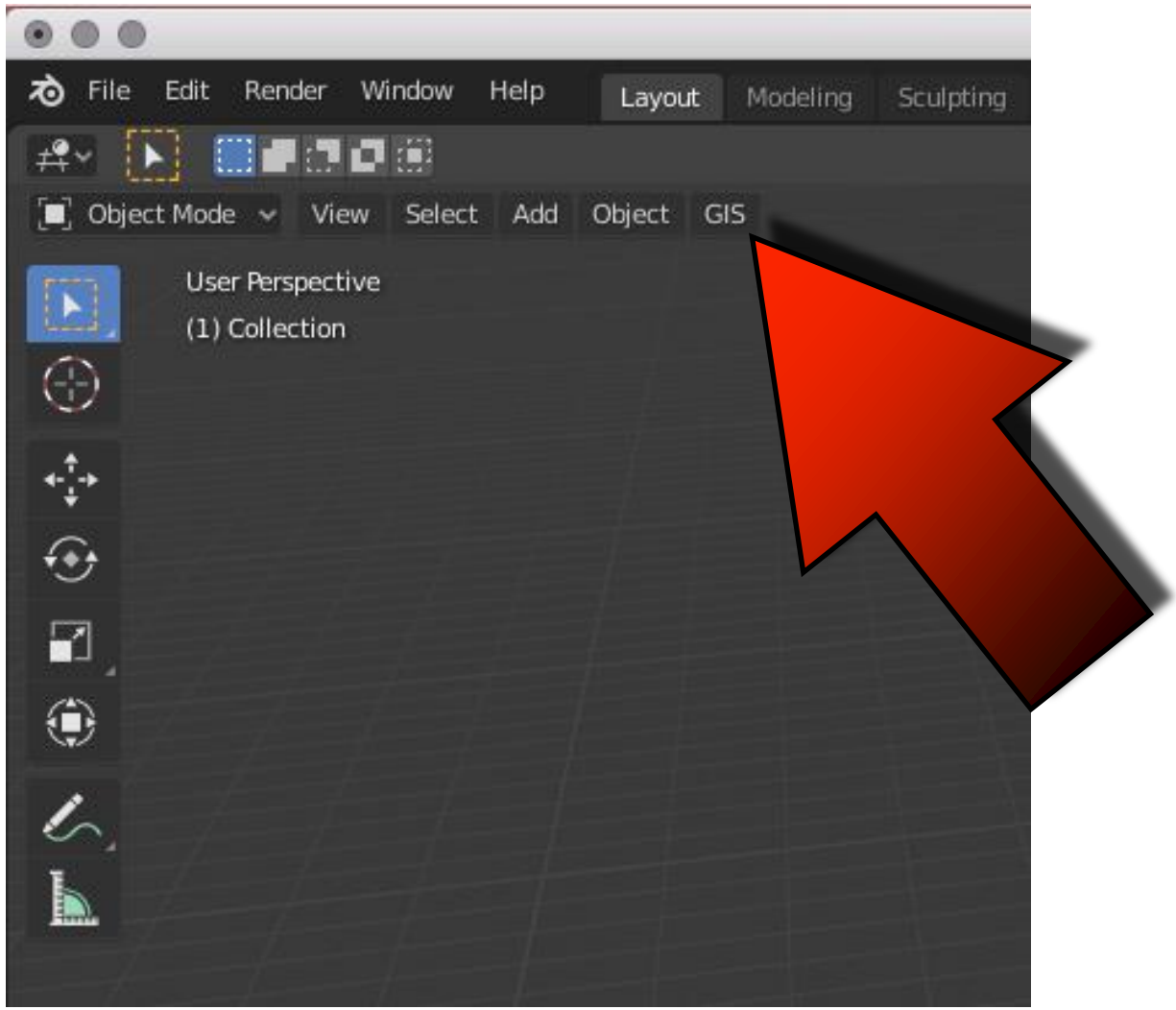


OPEN THE INSTALLED ADD-ON AND CLICK ON THE CACHE FOLDER ICON TO CHOOSE THE TEMPORARY DATA PROCESSING DIRECTORY

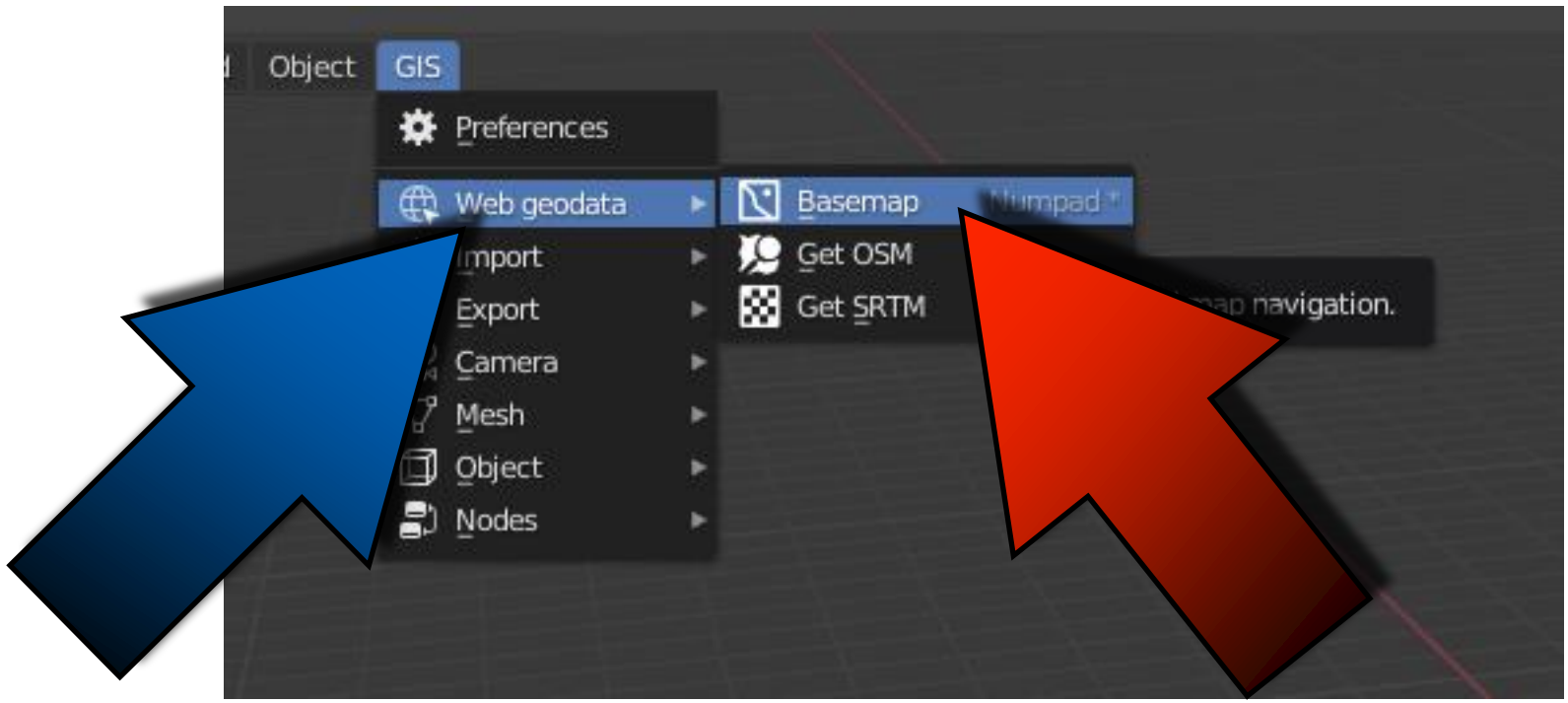


HERE WE WILL SEE

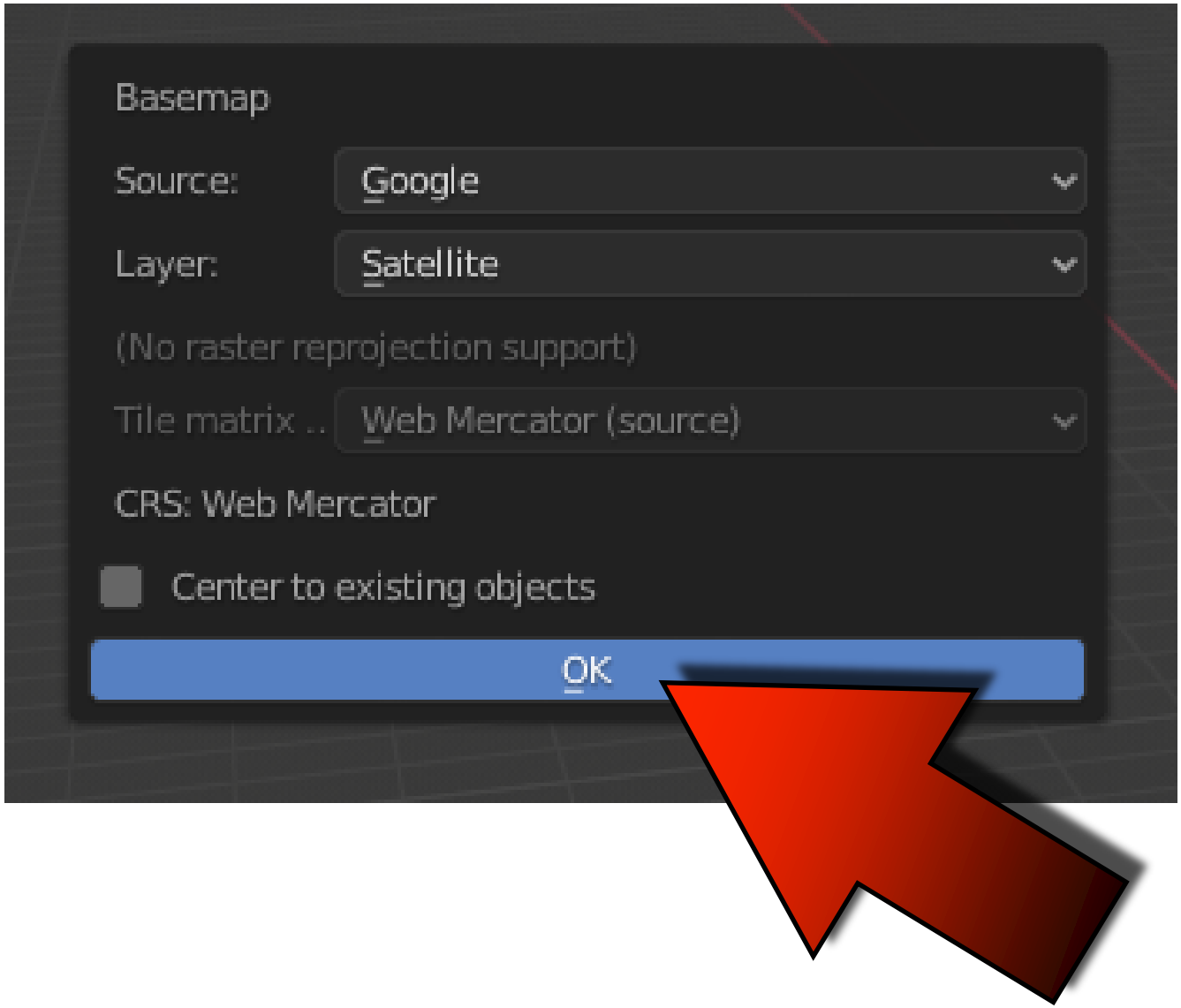
THE INSTALLED ADD-ON



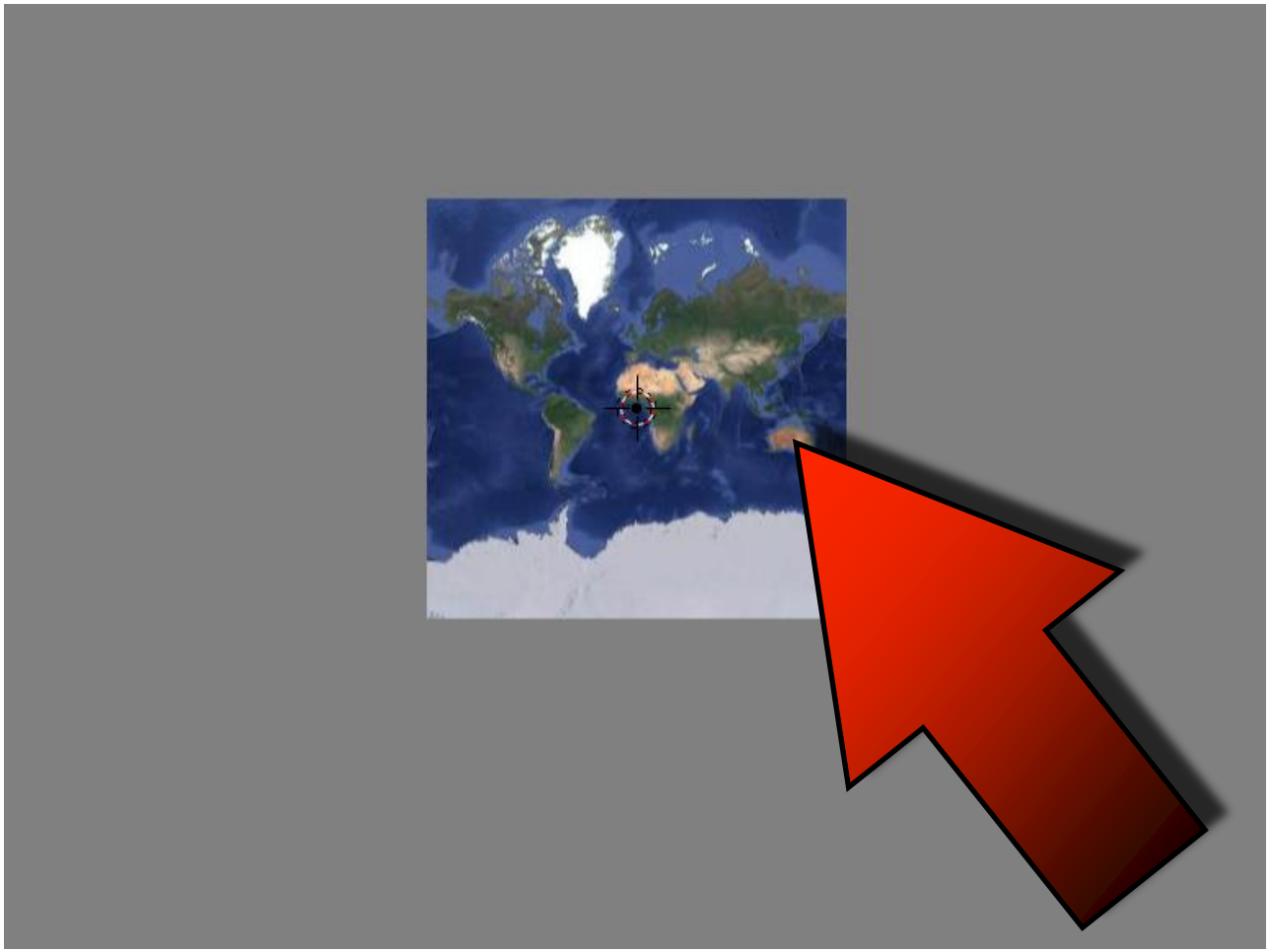
SELECT
WEB GEODATA
BASEMAP



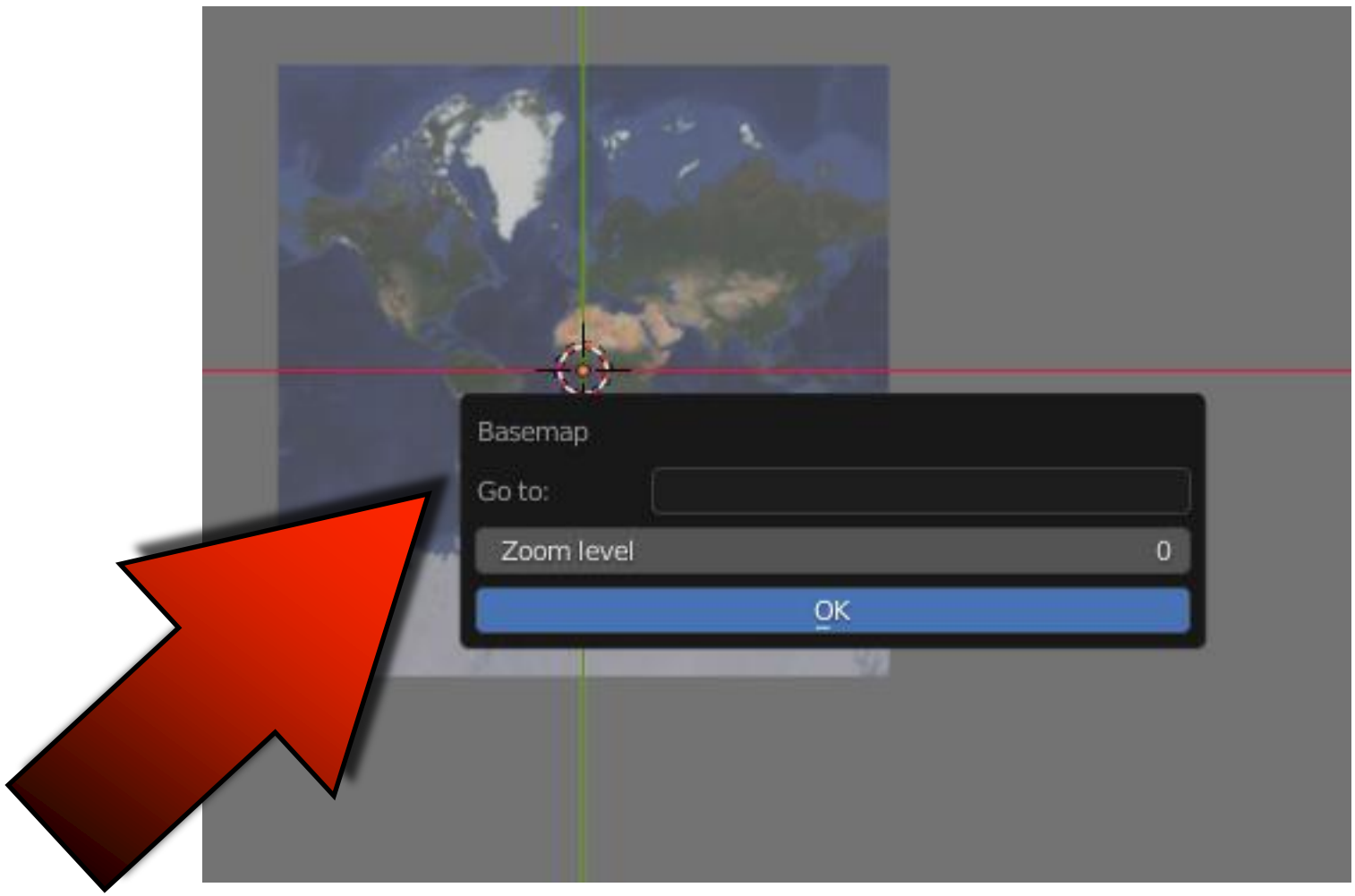
THEN CLICK ON OK



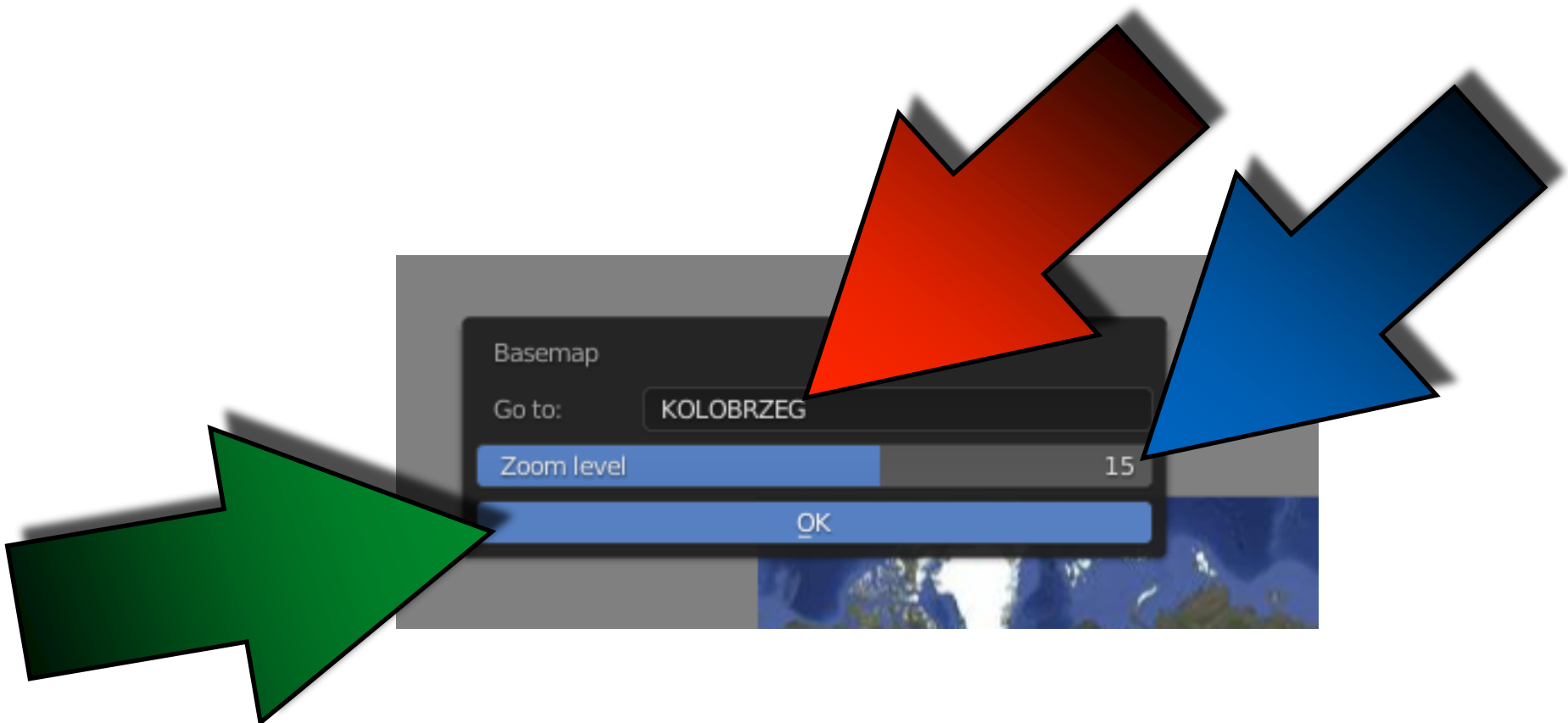
AFTER A WHILE YOU WILL SEE A MAP DOWNLOADED FROM THE INTERNET



PRESS THE G KEY TO VIEW BASEMAP WINDOW



WRITE KOLOBRZEG AND ZOOM LEVEL SET TO 15 AND PRESS OK



Co-funded by the European Union

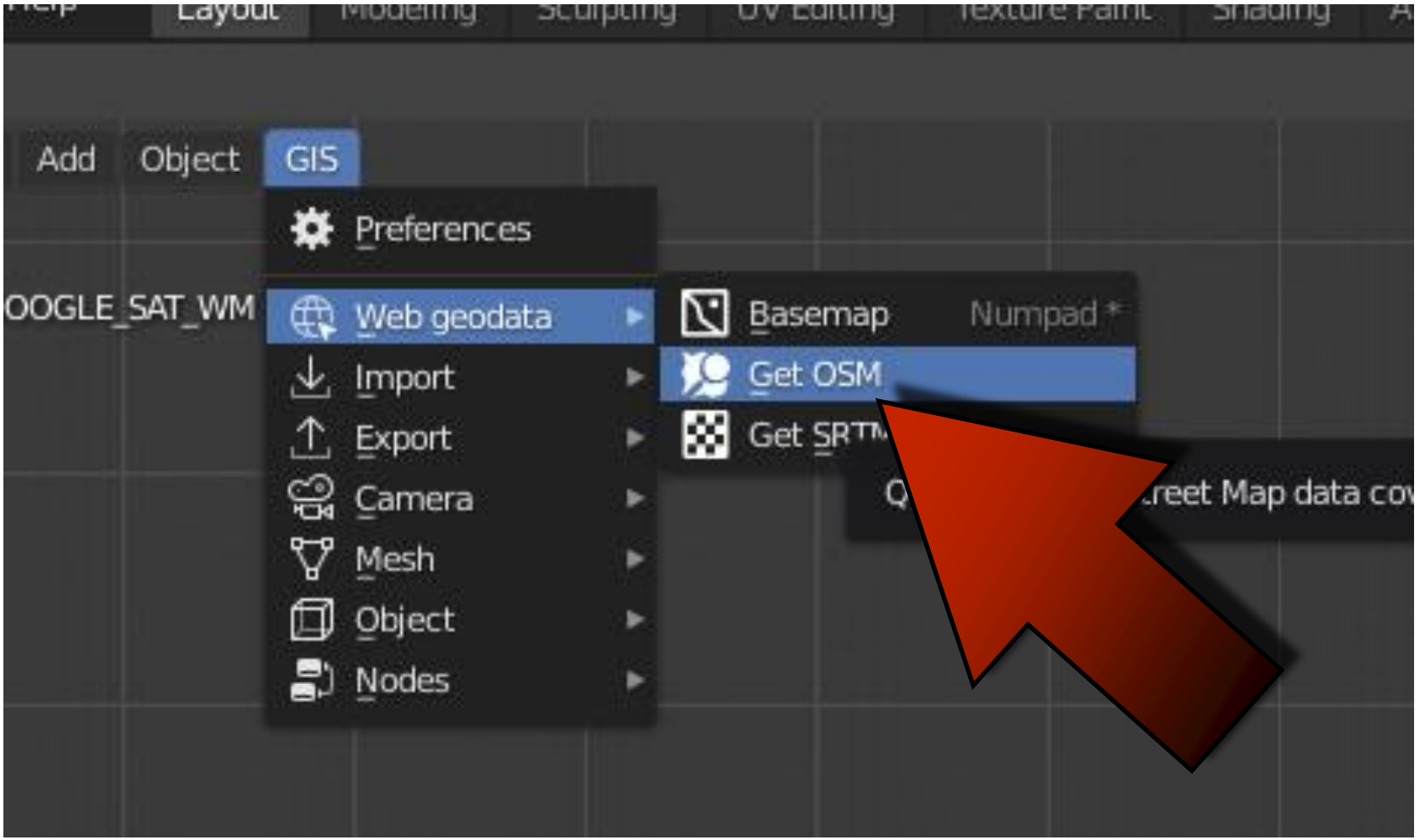
POWER OF AR AND VR

YOU WILL SEE THIS MAP

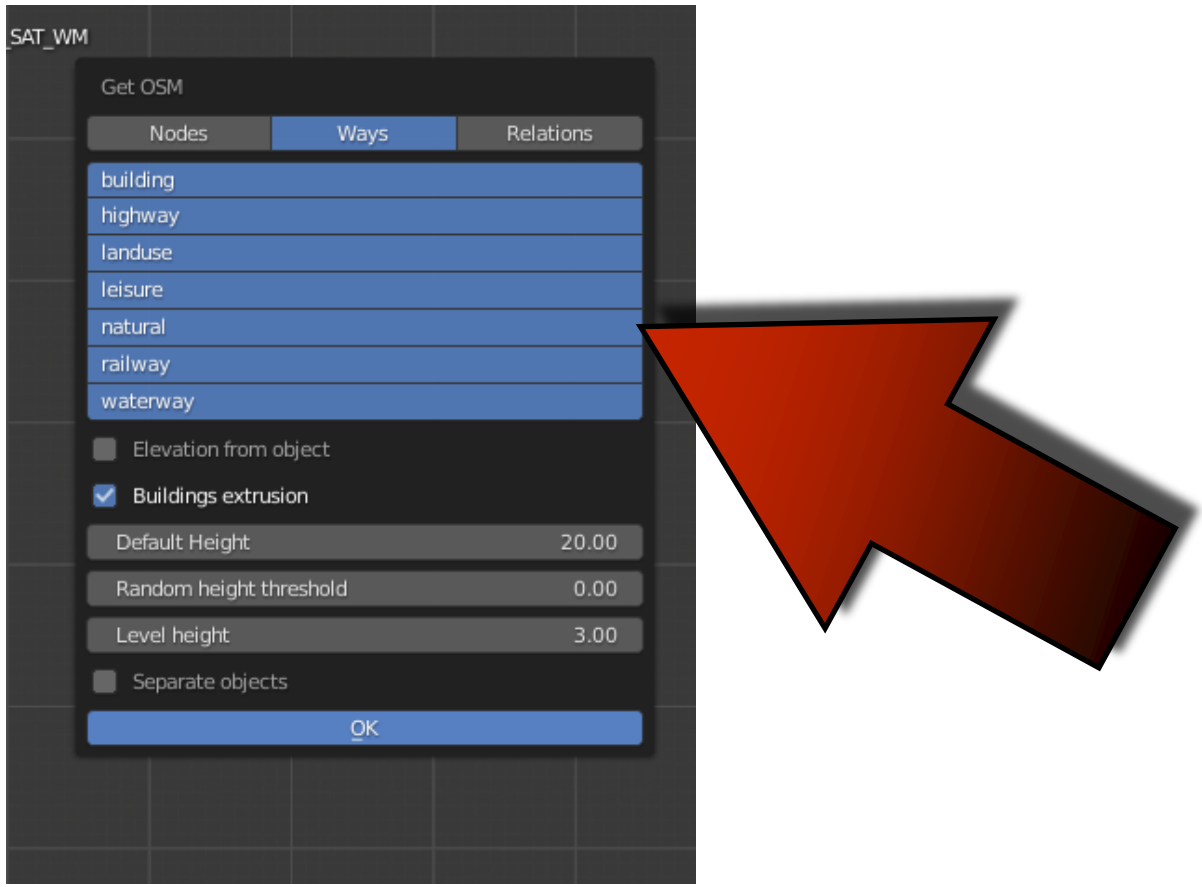
CAMERA

PRESS THE E KEY TO CUT OUT A PART OF THE MAP

CHOOSE GET OSM NOW



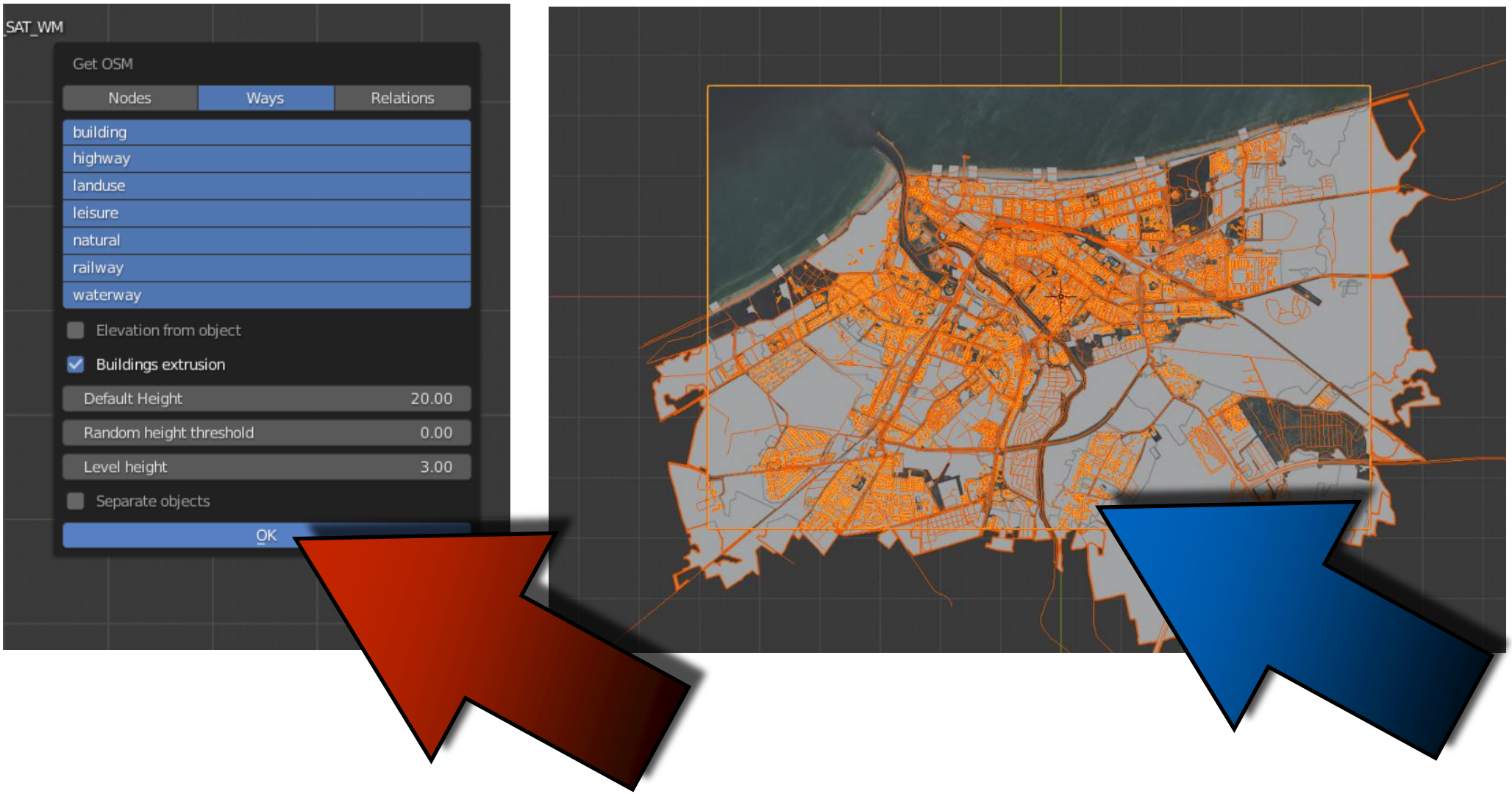
SELECT ALL ITEMS
WHILE HOLDING THE SHIFT KEY



Co-funded by the European Union

POWER OF AR AND VR

PRESS THE OK KEY TO VIEW A GENERATED 3D MAP

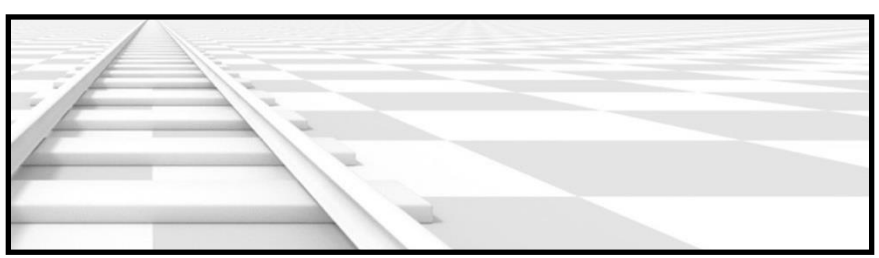


CAMERA

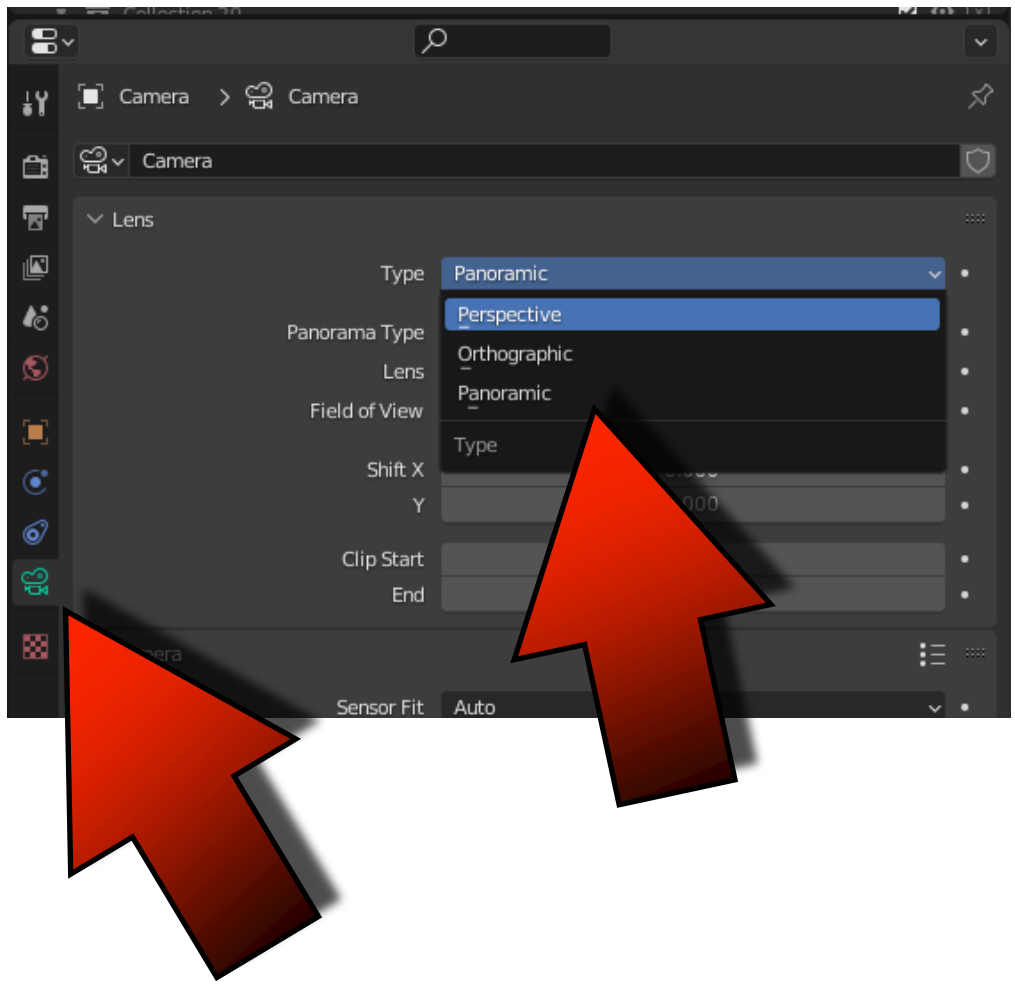
WE HAVE THREE KINDS OF CAMERAS

PERSPECTIVE

ORTHOGRAPHIC



PANORAMIC



START ANIMATION

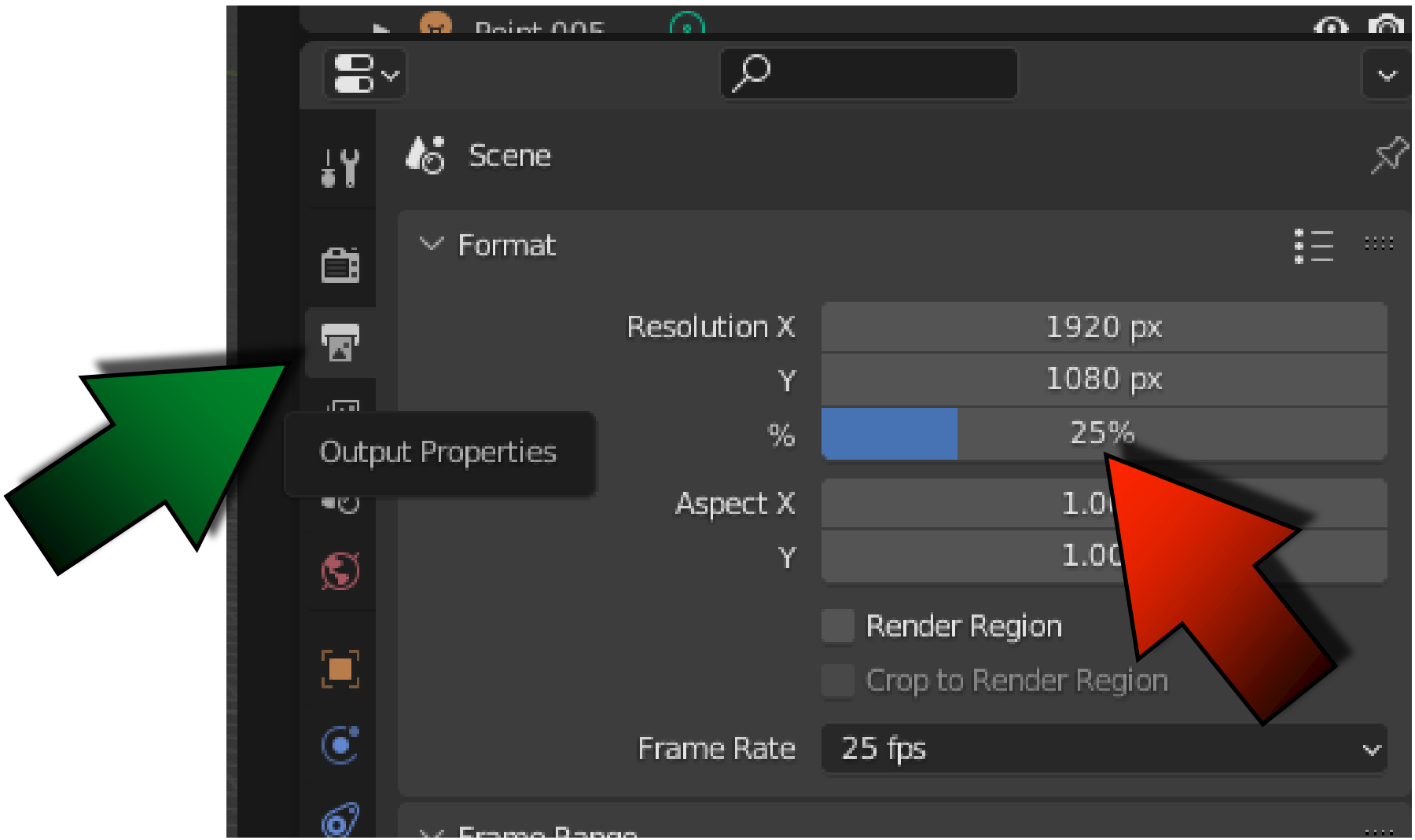
https://youtu.be/qPJnOX14dQ0

Co-funded by the European Union

POWER OF AR AND VR

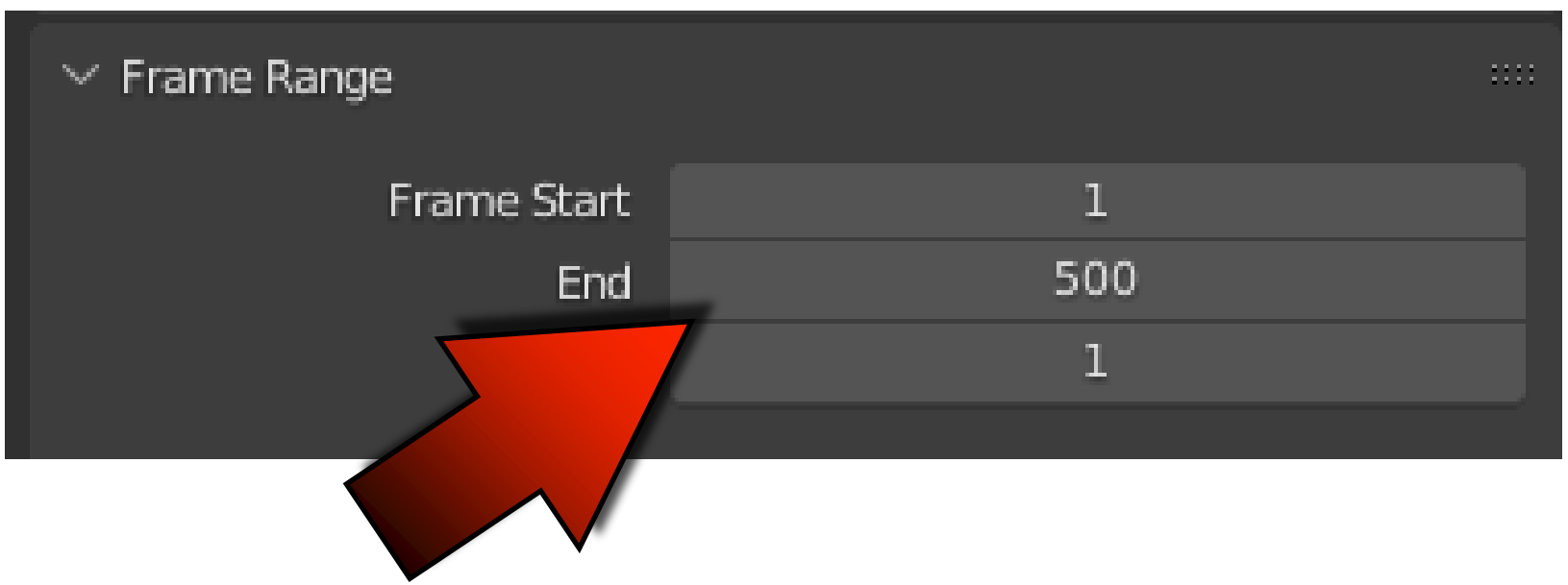
FOR FASTER ANIMATION CREATION

ENTER OUTPUT PROPERTIES AND SELECT 25%

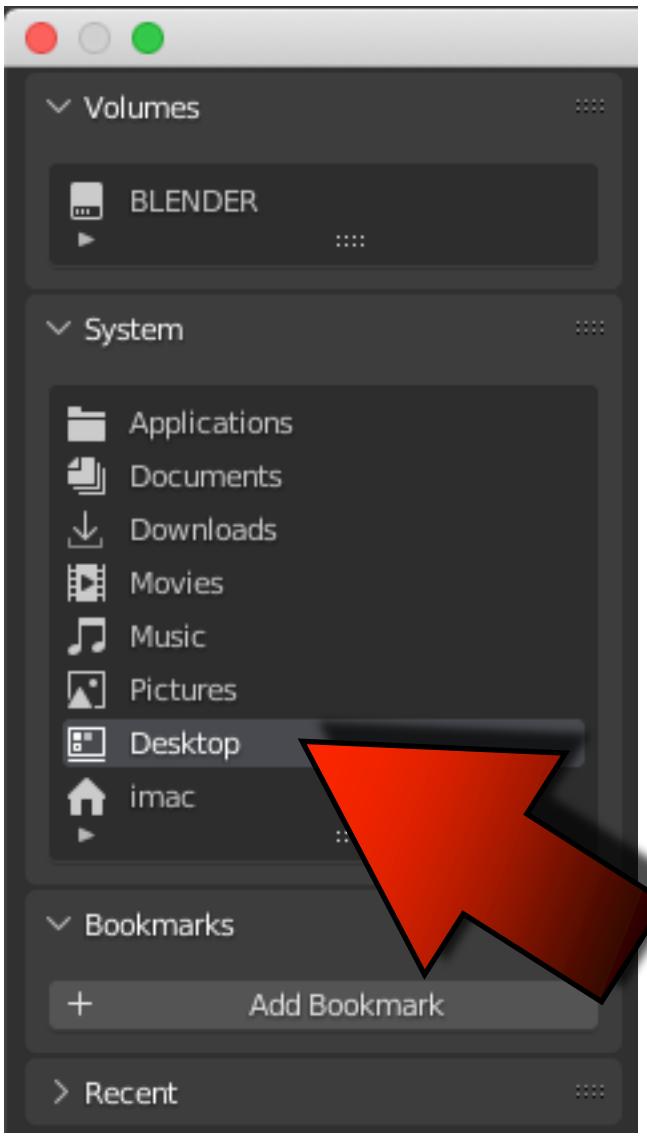


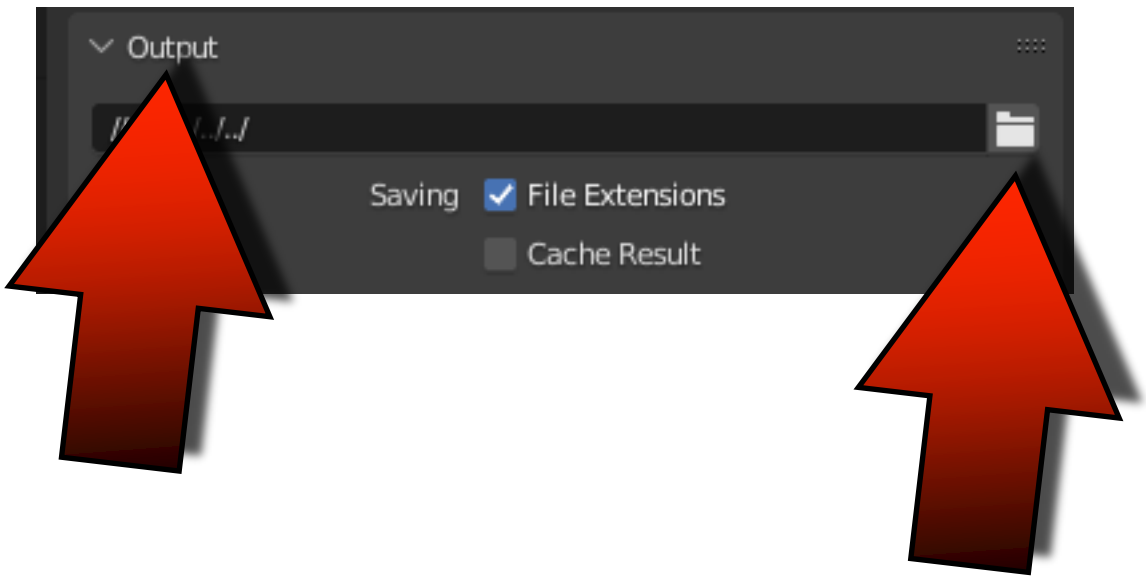
CAMERA

SET ANIMATION FOR 500 FRAMES



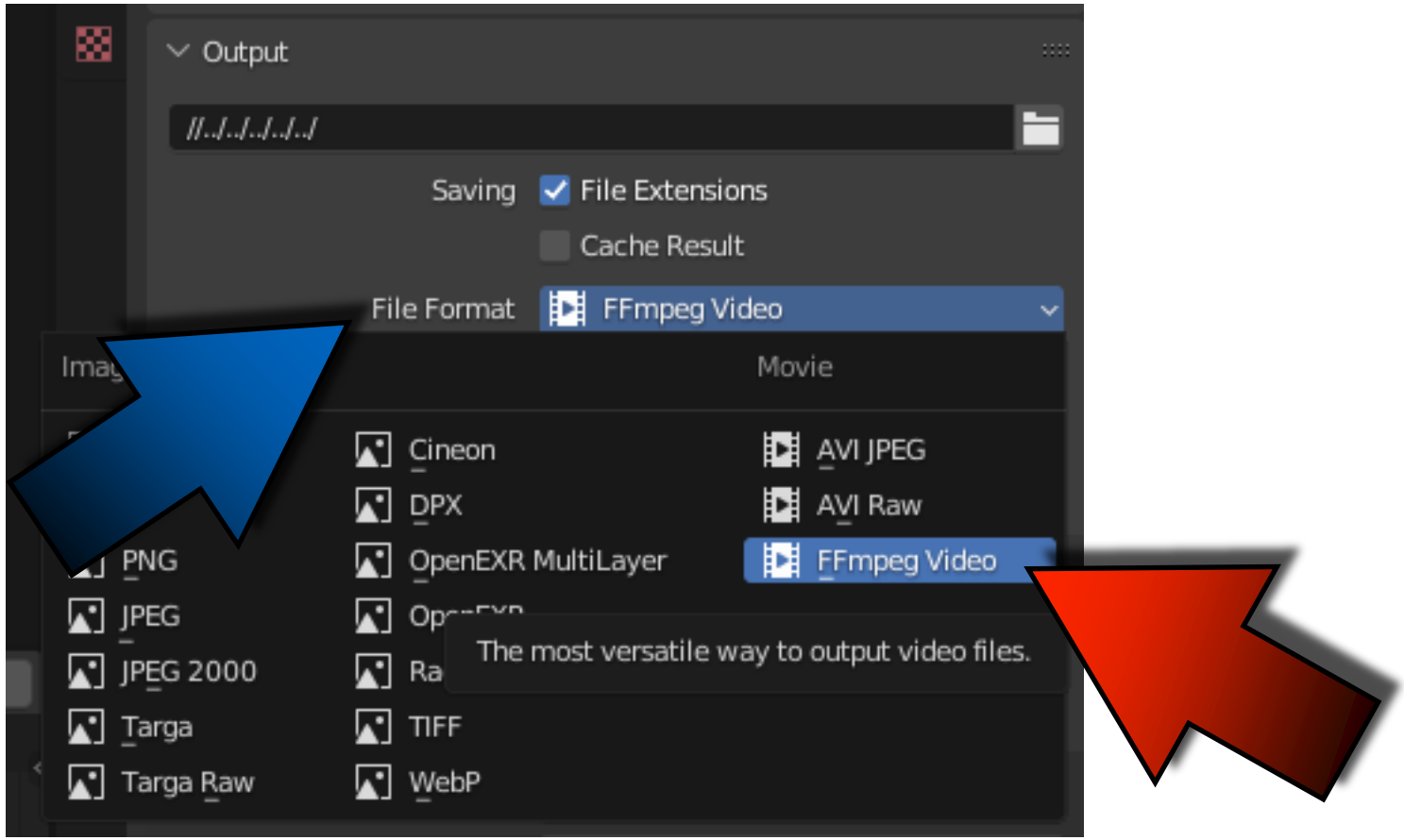
SET ANIMATION SAVING ON THE DESKTOP



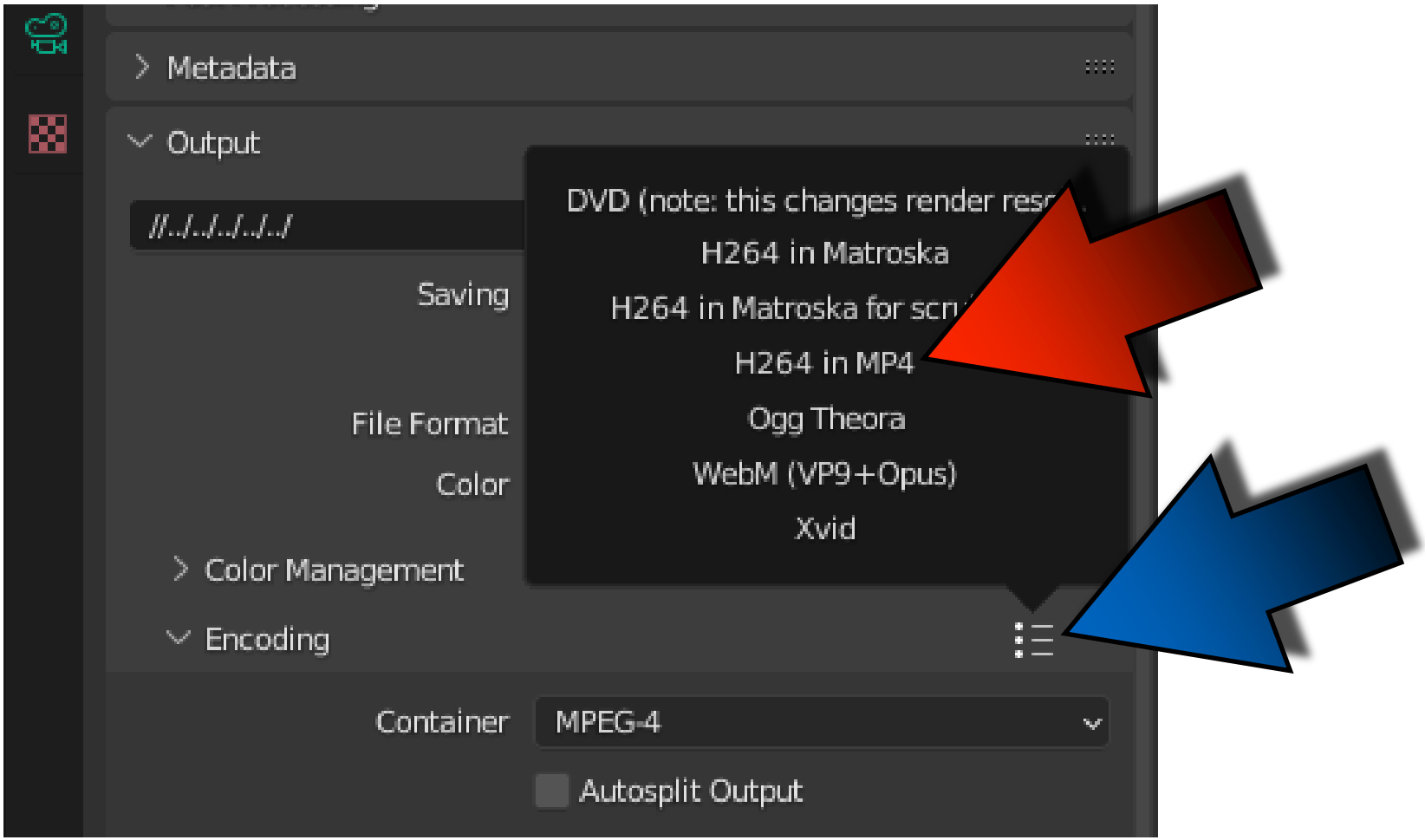


CHOOSE FILE FORMAT

FFMPEG VIDEO

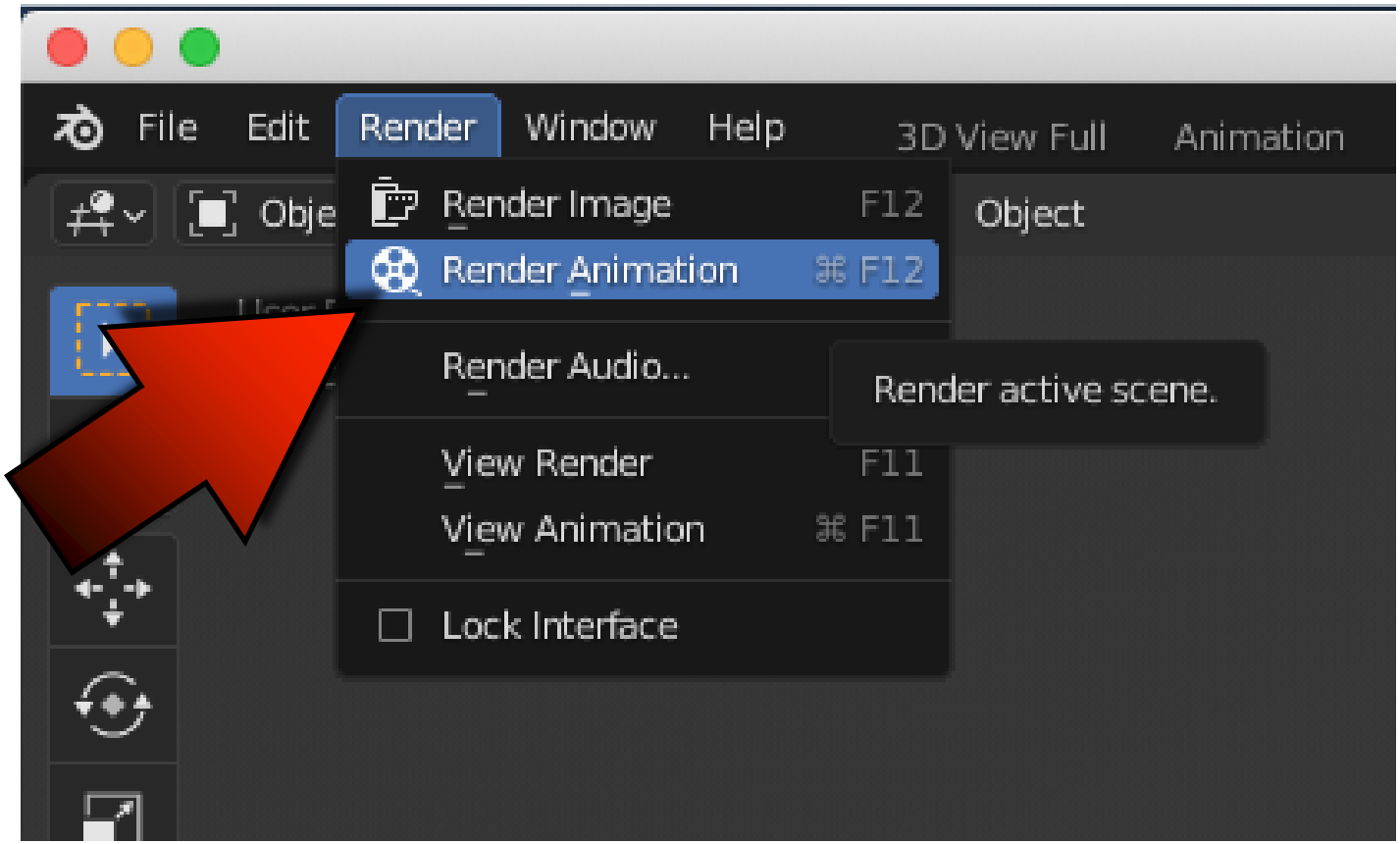


CLICK ON THE ENCODING ICON AND CHOOSE H264 IN MP4

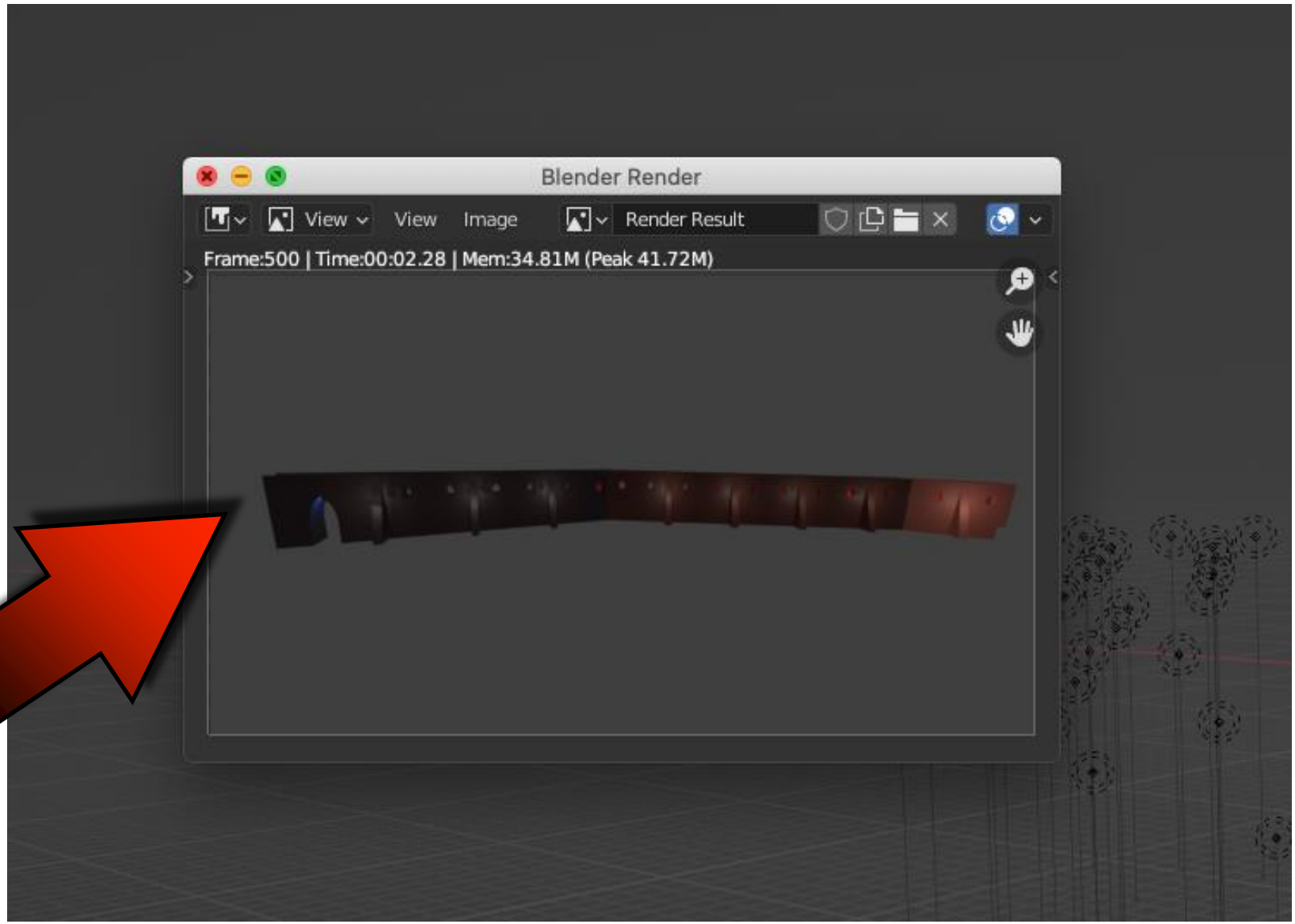


NEXT CHOOSE

RENDER ANIMATION



WAIT UNTIL ANIMATION ARISES



CAMERA

MAKE SUCH ANIMATION

USE MODIFIERS, MULTIPLE CAMERAS, DIFFERENT LIGHTS AND CURVES

YouTube

https://youtu.be/RmdIXOined4

POWER OF AR AND VR

FOR THE PRESENTATION OF PROJECTS
WE ARE VERY OFTEN CREATING DIFFERENT ANIMATIONS

YouTube

https://youtu.be/xFcThHvW4Lk

CAMERA

THANK YOU FOR YOUR ATTENTION

Co-funded by the European Union