## FINDOSSIBLE GANES



1. BISE MOULEDGE 2. USING IGONS SCHLER

## INTRODUCTIONS

ICONS SCALER IS SYSTEM WHICH IS LOADING SPRITES, RESCAUNG THEM WITH SMART ALGORITHM AND MANAGING MEMORY.

IT'S DEDICATED TO USE WITH UI IMAGES.

YOU GAN GHOOSE IMAGE FILES TO BE RESCALED AND USED AS SPRITES BY PROUDING PATH TO STREAMING ASSETS, ONLINE ADRESS, RESOURGES DIRECTORY PATH OR PROUDING TEXTURE FILE FROM PROJECT'S ASSETS DIRECTORY.

IF YOU WILL UNT THIS PAGNAGE PLEASE WITT PAGE ON ASSET STORE AND RATE OR WRITE REVIEW &)



## 7/2-BISE MOULEDGE

ICONS SCALER IS LOADING TEXTURE FILES AND USING THEM TO GENERATE SCALED SPAINT FILES.
FOR EXAMPLE YOU CAN USE ONE FILE IN 2532253 STATE ICONS SCALER CAN CENTRATE DIFFERENT GOOD LOOKING SPRIFES IN DIFFERENT DIMENSIONS UNTESTATED SPRIFES IN CONTROL OF THE RESPONSIONS WITH SPRIFES IN CONTROL OF THE RESPONSIONS WITH SPRIFES IN CONTROL.



ON THE LEFT - GENERATED SPRITE IN BOXEO FROM 512X512 SOURGE FILE
ON THE RIGHT - UI SCALED 512X512 FILE

FOR EAGH DIMENSION SCAVE THERE IS GENERATED ONE SPRITE, THEN UI IMAGES ARE USING THIS ONE SPRITE IN A SHARED WAY.

PAGNAGE SYSTEM IS MANAGING MEMORY IN EFFICIENT WAY.
YOU GAN DEFINE HOW MUGH MEMORY GAN BE USED UNTIL NOT USED SPRITES SHOULD BE
UNLOADED. MEEPING NOT USED SPRITES IN MEMORY IS IMPORTANT BEGAUSE WHEN FOR
EXAMPLE YOU GLOSE AND OPEN WHOLE INVENTORY WINDOW FEW TIMES IN ABOUT MINUTE,
SPRITES WILL NOT NEED TO REALOAD EACH TIME BUT WILL BE WEWED RIGHT AWAY.

WITH DEBUGGING WEW YOU GAN EASILY GHEGK WHAT IS COING ON WITH YOUR LOADED SPRITES AND TEXTURES, HOW MANY IMAGES ARE USING GERTAIN SPRITES AND HOW MUGH MEMORY THEY TAKE.

VOU CAN DEFINE IF IMAGES WITH UNACTIVE GAME OBJECTS SHOULD BE TREATED AS NOT NEEDED THEN UNLOADED WHEN MEMORY WHEN EXCEEDED AND LOADED AGAIN WHEN GAME OBJECT BECOMES ACTIVE AGAIN.

EAGH TEXTURE CONTAINER HAVE OWN ID STORED AS HASH OF IT'S PATH TO TEXTURE FOR MANAGER TO QUICKLY NAVIGATE BETWEEN THEM AND TO IDENTIFY THEM WHEN NEEDED.

EAGH SPRITE WAVE OWN ID FOR IT'S TEXTURE CONTAINER TO QUICKLY NAVIGATE AND IDENTIFY THEM.

TO GENERATE SPRITE ALGORITHM NEED TEXTUREDD DATA WITH READ/WRITE ENABLED, THIS OPTION IS TAKING MORE MEMORY BUT AFTER WE GET PIXEL ARRAY OF TEXTURE, SYSTEM IS UNLOADING TEXTURE

WITH READ/WRITE EXCIPLED SO WE USE LOWEST AMOUNT OF MEMORY.

**Draw Details** Containers Loaded Cloaks PNG 54x54 F: Bilinear | ID: 120096 | 0.01mb | 4 References | Active: 4 | Last Use: 14 gloves.PNG 54x54 F: Bilinear | ID: 120096 | 0.01mb | 3 References | Active: 3 | Last Use: 15 ingots.png S4xS4 F: Bilinear | ID: 120096 | 0.01mb | 5 References | Active: 5 | Last Use: 16 Loaded book.PNG 54x54 F: Bilinear | ID: 120096 | 0.01mb | 5 References | Active: 5 | Last Use: 17 Unloaded | RPG\_inventory\_icons/book.PNG | ID: 304688 137x137 | References: 1 | Filter: Bilinear | Active: 0 helmets.png 54x54 F; bilinear | ID: 120096 | 0.01mb | 4 References | Active: 4 | Last Use: 18 f.PNG 54x54 F: Bilinear | ID: 120096 | 0.01mb | 3 References | Active: 3 | Last Use: 19 coins.png 54x54 F: Bilinear | ID: 120096 | 0.01mb | 3 References | Active: 3 | Last Use: 20 Leaded boots.png 54x54 F: Bilinear | ID: 120096 | 0.01mb | 4 References | Active: 4 | Last Use: 22 Loaded necklace.PNG 54x54 F: Bilinear | ID: 120096 | 0.01mb | 3 References | Active: 3 | Last Use: 23 Unloaded | RPG inventory icons/necklace.PNG | ID: 304688 137x137 | References: 1 | Filter: Bilinear | Active: 0 shield.png 54x54 F: Bilinear | ID: 120096 | 0.01mb | 3 References | Active: 3 | Last Use: 24 Unloaded | RPG\_inventory\_icons/shield.png | ID: 304688 137x137 | References: 1 | Filter: Bilinear | Active: 0 Loaded sword.png 54x54 F: Bilinear | ID: 120096 | 0.01mb | 3 References | Active: 3 | Last Use: 25

WHEN LOADING TEXTURE WHICH DON'T HAVE READ/WRITE ENABLED (ONLY WHEN LOADING FROM RESOURCES OR ASSETS FOLDER TEXTURE FILE) WE RENDERING READABLE TEXTURE WITH "RENDER TEXTURE" GETTING PIXELS ARRAY THEN UNIOADING RENDERED TEXTURE.



## 2/2-USING ICONS SCALERE

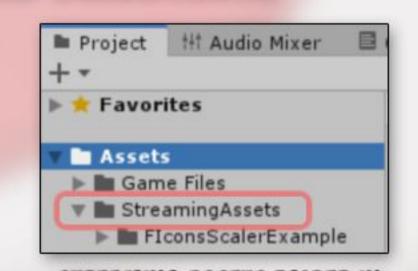
TO USE IGONS SCRIUER, ADD FIGONS\_MANAGER COMPONENT TO NEW EMPTY CAME OBJECT ON THE SCENE.

TO GENERATE SPRITE IN NEW SIZE YOU GAN USE
FIGOUS\_LOADER GOMPONENT, BUT IT'S RECOMMENDED TO
LOAD EVERYTHING FROM GODE WITH METHOD WINE

ICONS MANAGER WILL TAKE GARE OF THE REST.
TO UNLOAD IMAGE YOU DESTROY GAME OBJECT WITH IT, OR DISABLE IT IF YOU DEFINED TO UNLOAD DEAGTIVATED OBJECTS IN IGONS MANAGER INSPECTOR WINDOW.
(IMAGES WILL BE UNLOADED WHEN MEMORY USE LIMIT EXGEEDS)

TO BE ABLE TO LOAD FROM STREAMING ASSETS, YOU NEED TO HAVE 'STREAMINGASSETS' DIRECTORY INSIDE YOUR ASSETS FOLDER, AFTER MAKING BUILD UNITY IS AUTOMATIGALLY MOVING FILES FROM THIS DIRECTORY TO BUILD DIRECTORY.

WITH LOADSPRITEMANAGED METHOD YOU GAN DEFINE FROM WHERE YOU WANT TO LOAD TEXTURE, GHOOSE IMAGE TO WHIGH SPRITE SHOULD BE ASSIGNED AFTER LOADING SUGGESS. DEFINE DESIRED WIDTH AND HEIGHT OF SPRITE. DEGDE IF USE OR NOT ANIMATION WHEN SPRITE IS BEING GENERATED.



FILTER OPTION IS UNITY'S WAY TO WEW IMAGES

WITH POINT YOU GET SHARREST LOOK BUT WHEN YOU

MOVE IMAGE IN WEW SLOWLY, MOTION WILL BE USS SMOOTH THAN

WHEN YOU USE BILINEAR OR TRIVINEAR, ALSO THIS TWO OPTIONS

ARE NIGE WHEN YOU NEED TO SCALE SPRINE A BIT AFTER RESCALING WITH

IGONS SCALER.

SET NATUVE SIZE WILL SET IMAGE COMPONENT SIZE TO BE THE SAME AS CENERATED SPRITE.