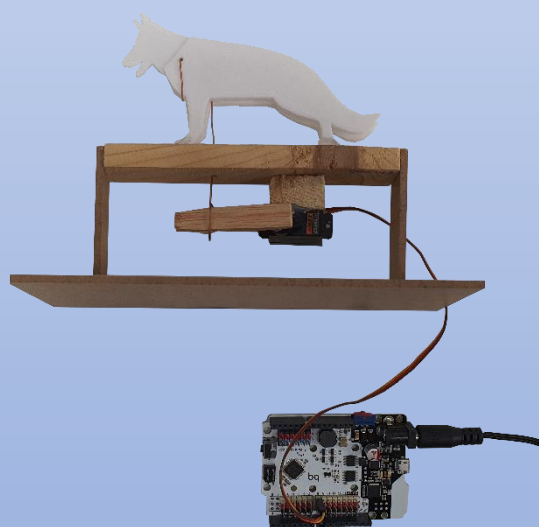
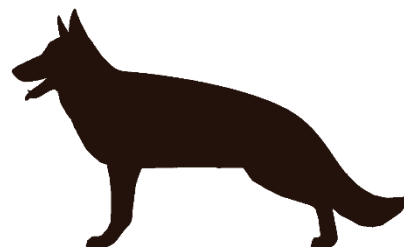




# Modelització moviment del cap d'un gos



<https://www.cordemariavalls.cat/acustica/>



FUNDACIÓ  
EDUCATIVA  
**COR DE MARIA**

Professor/a: Pere Compte Jové

Col·legi: Cor de Maria Valls

Curs: 4t d'ESO

Data: Gener de 2024

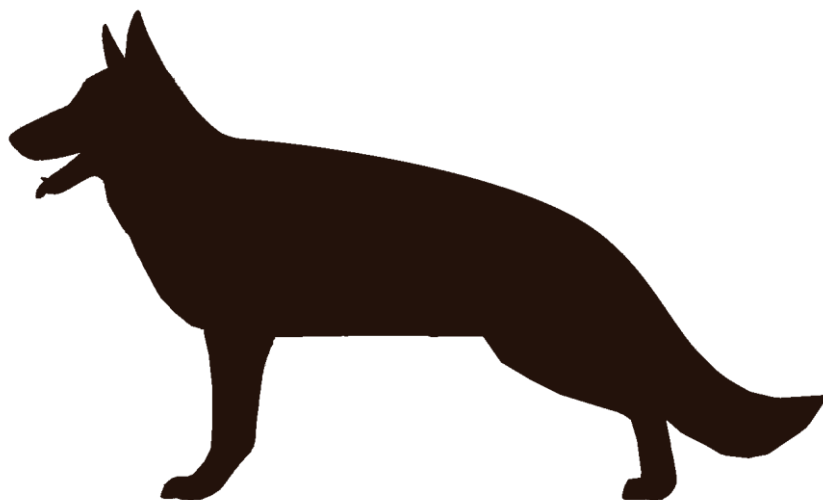


## Índex

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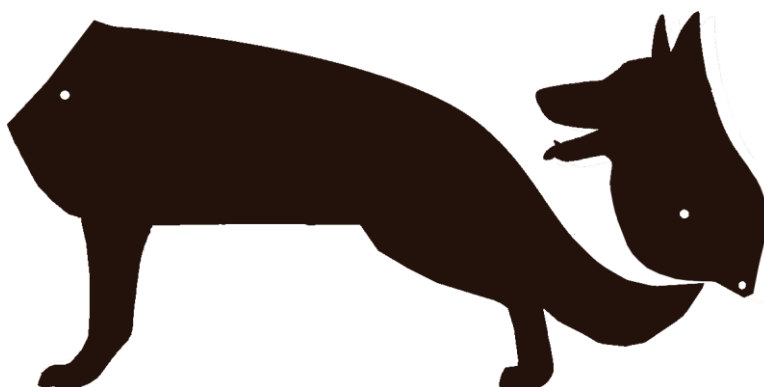
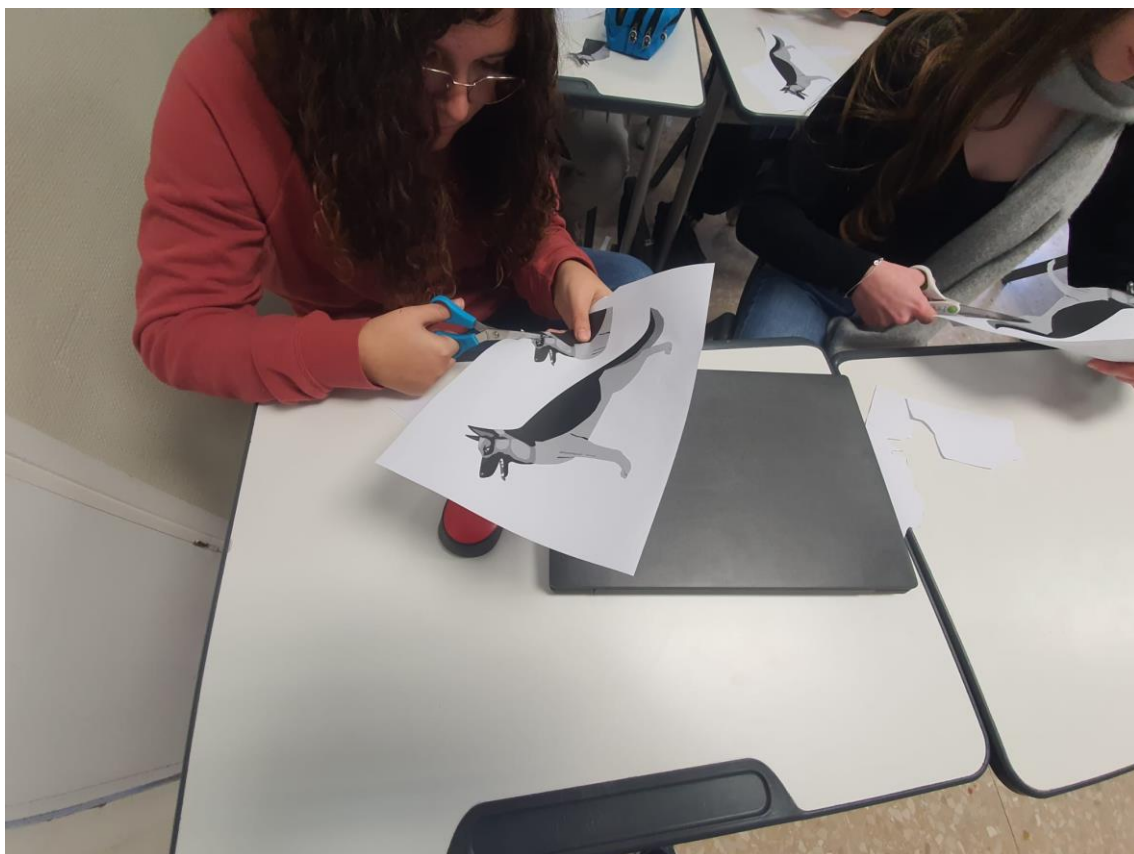


## Disseny del moviment del cap al gos



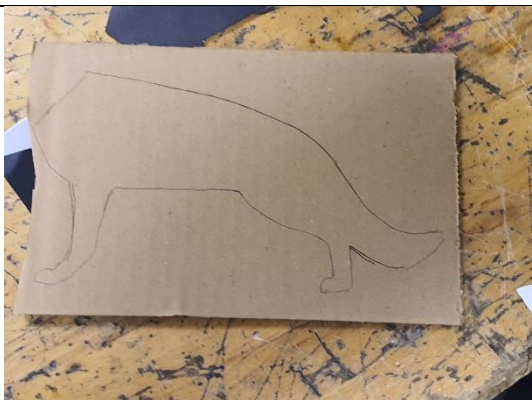
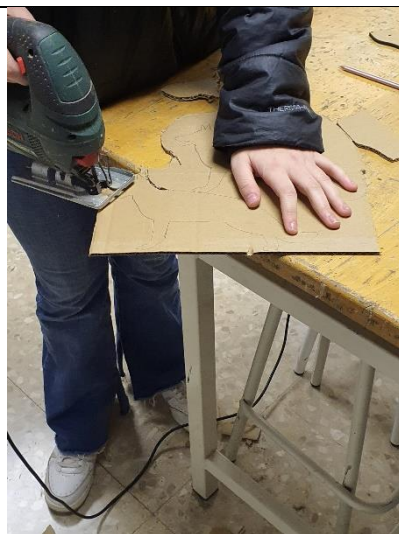
 gos transparent tot negre.png

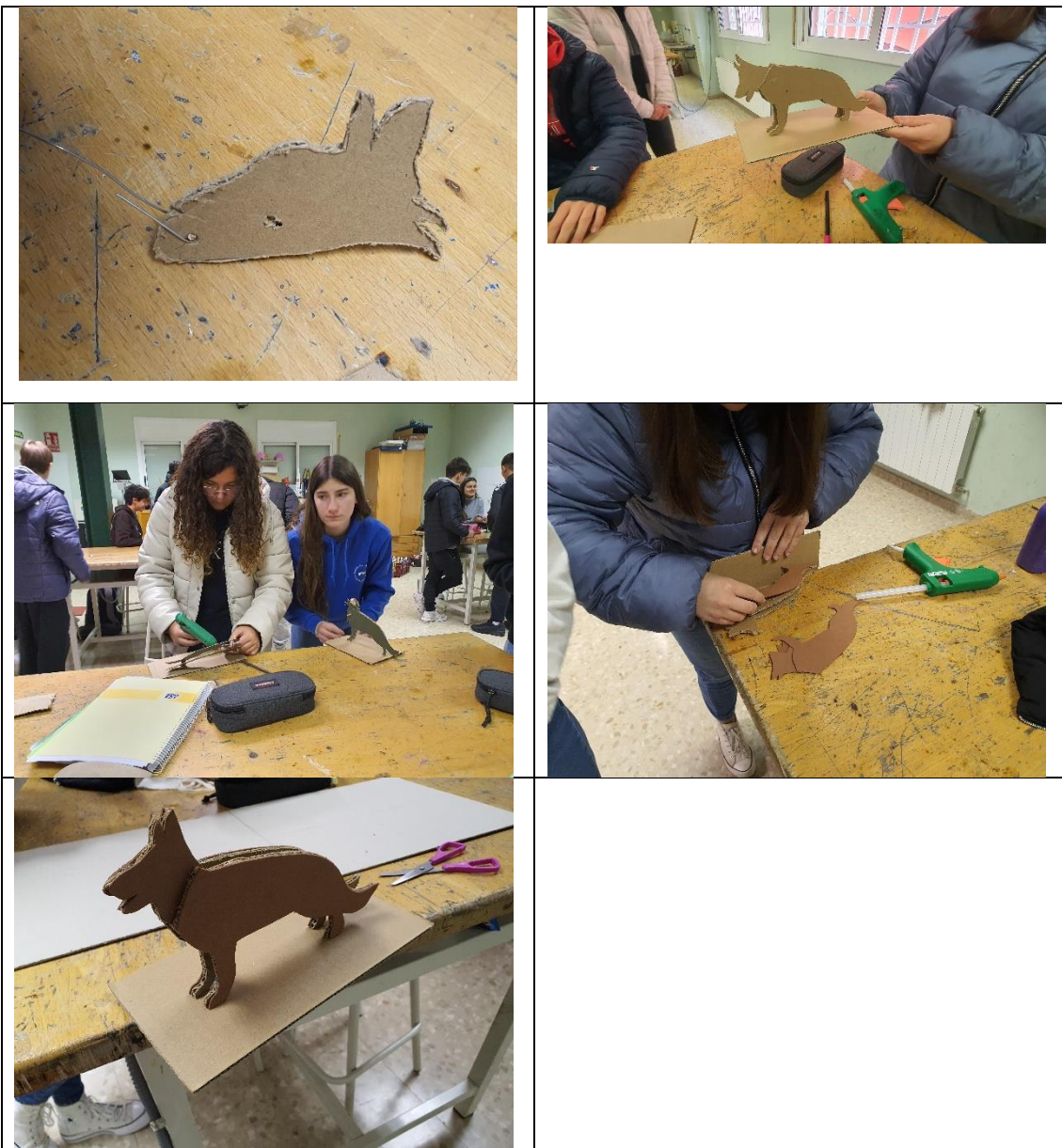




 gos negre talladora laser v1 altura 110 mm.png



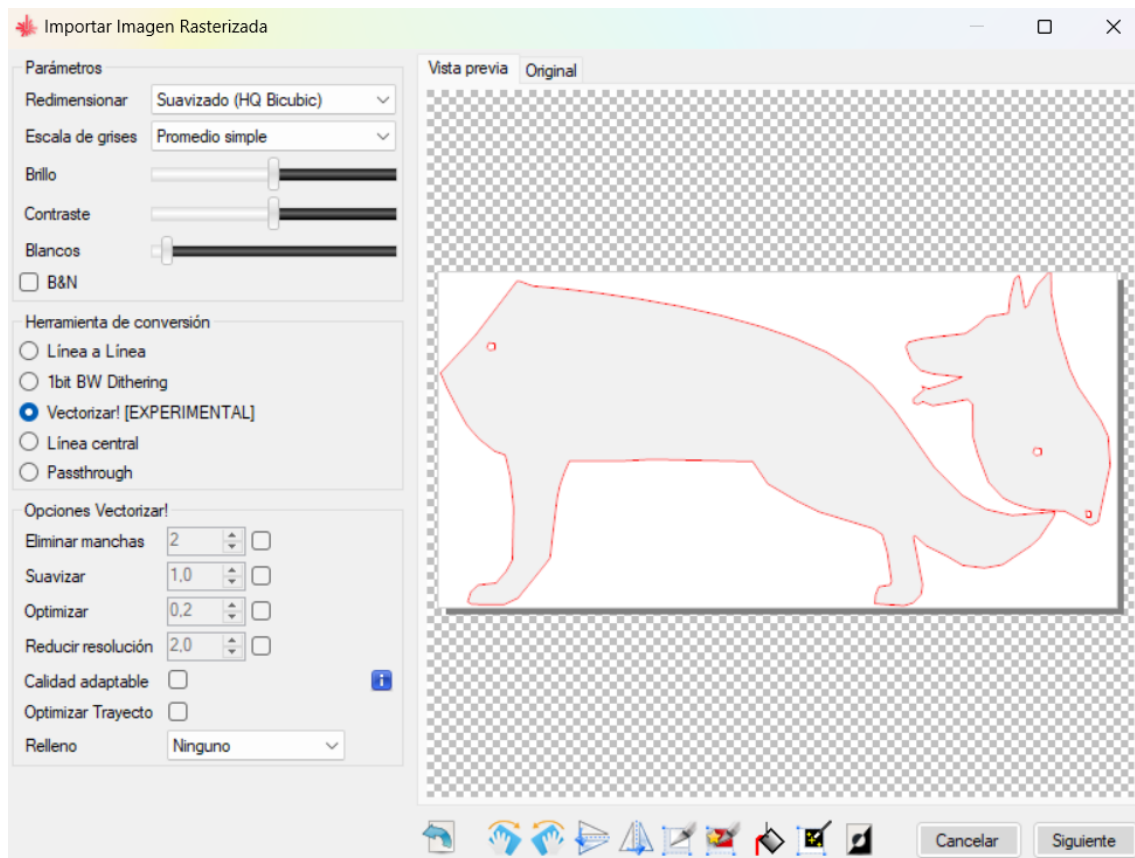
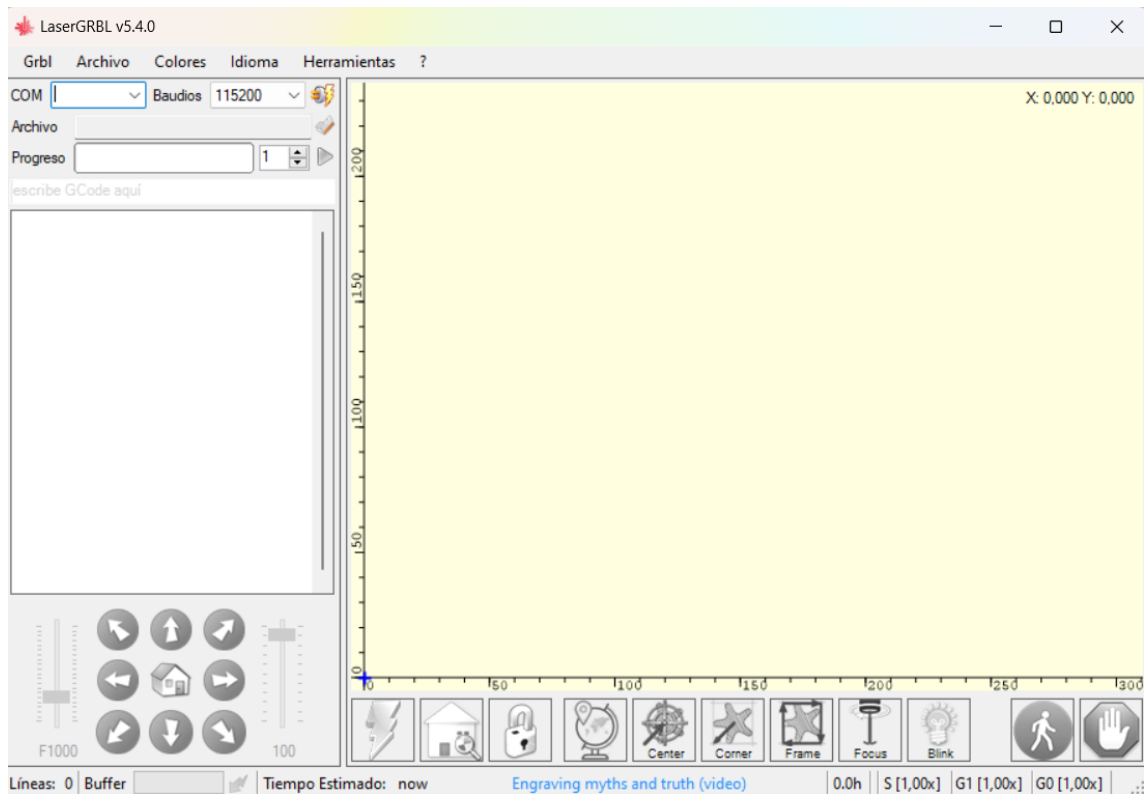




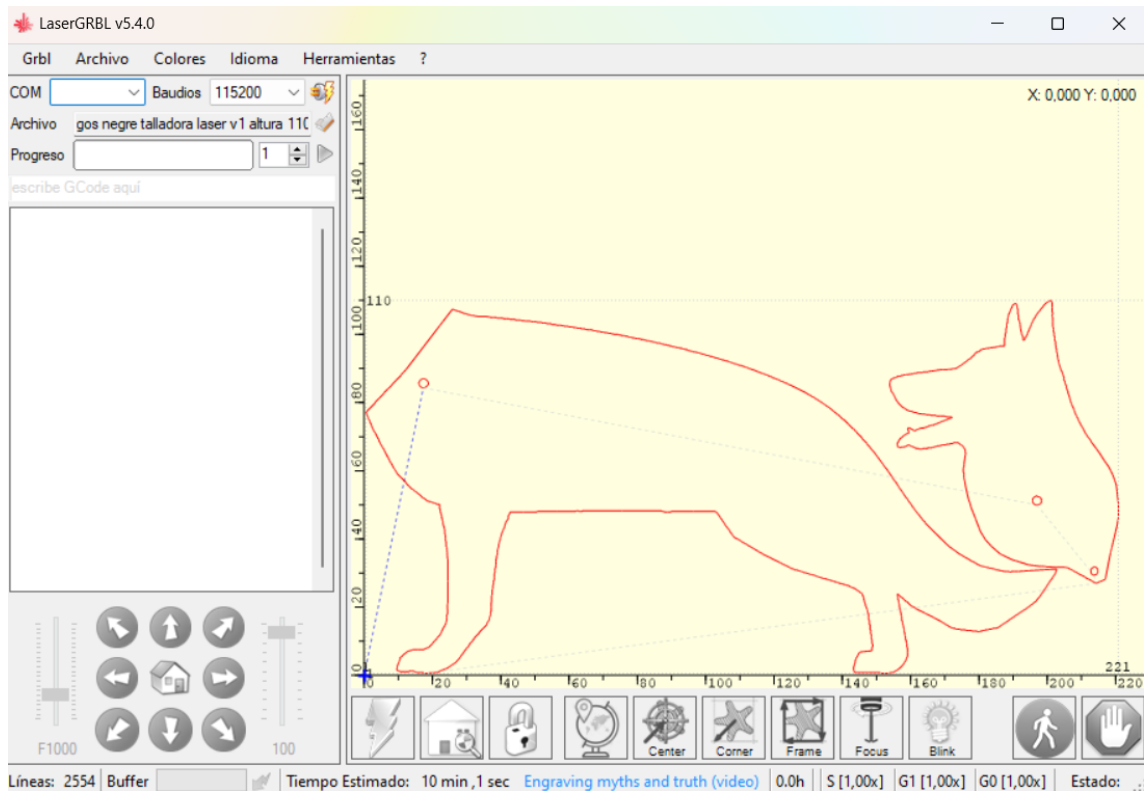
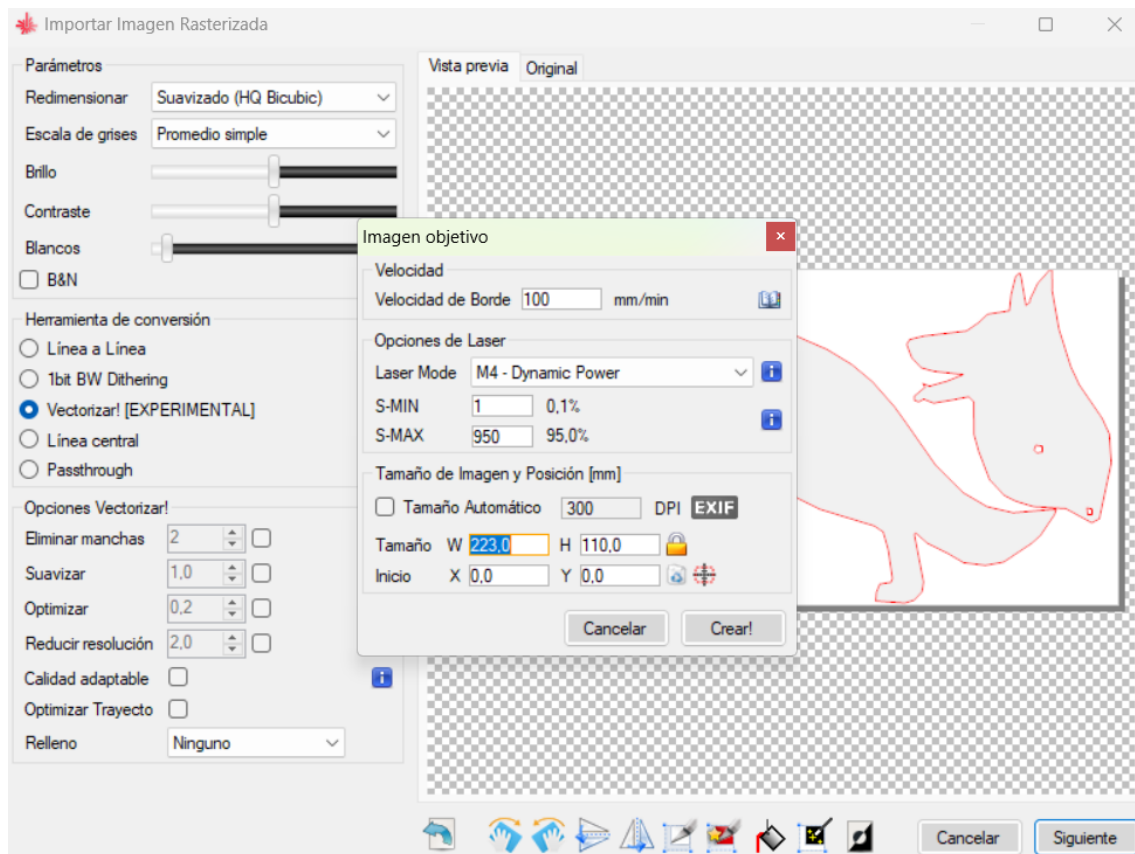


## Talladora làser

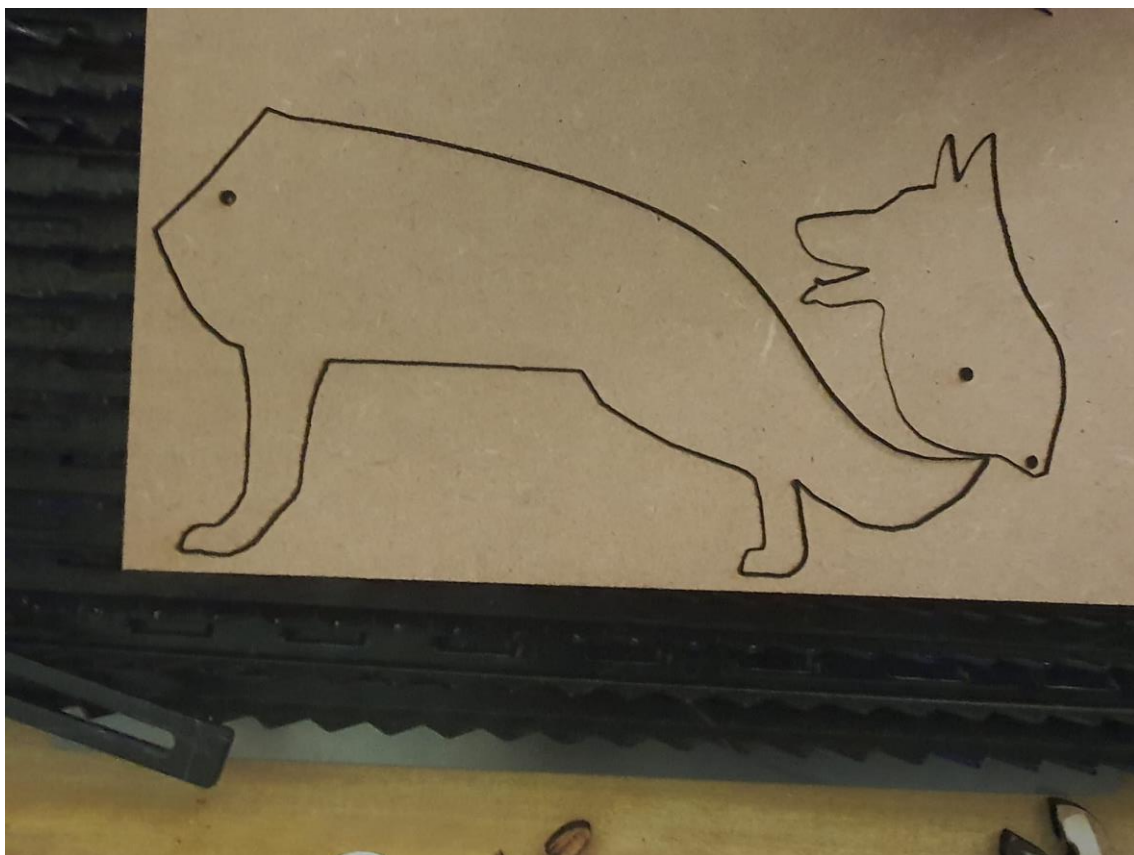
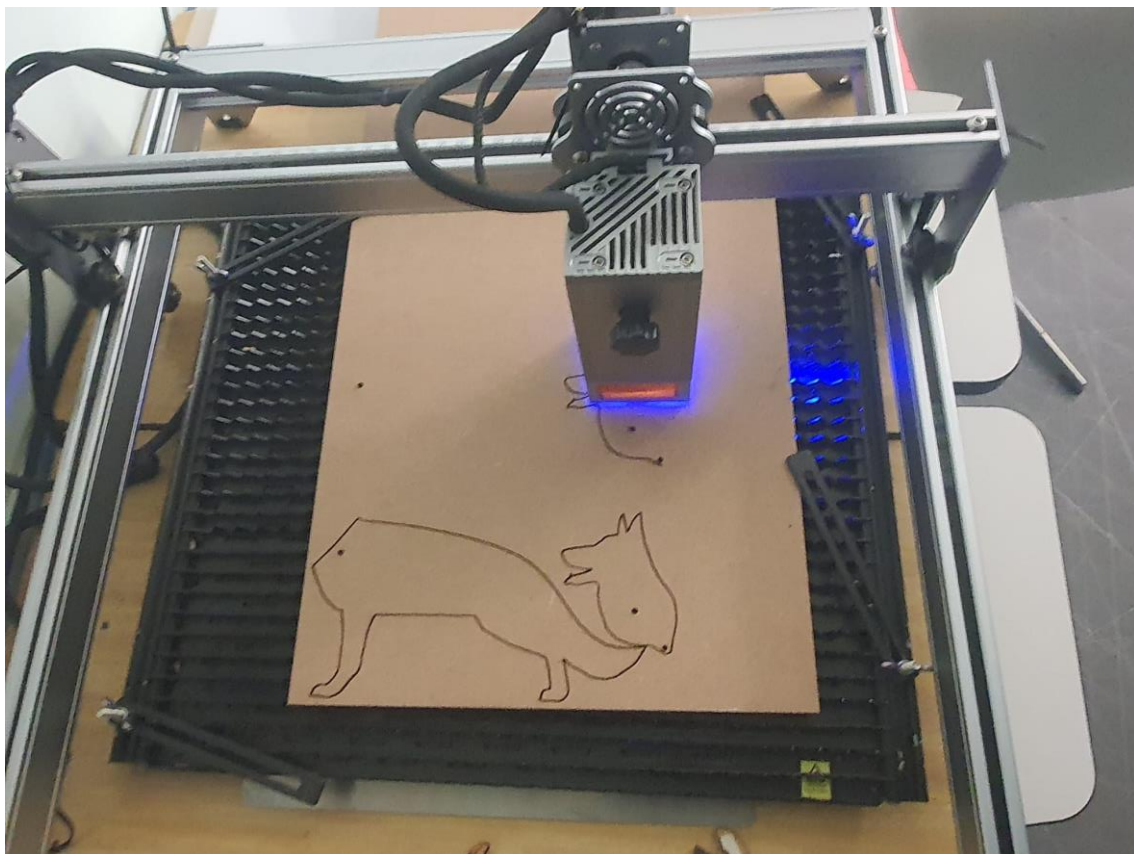
Gruix 4mm





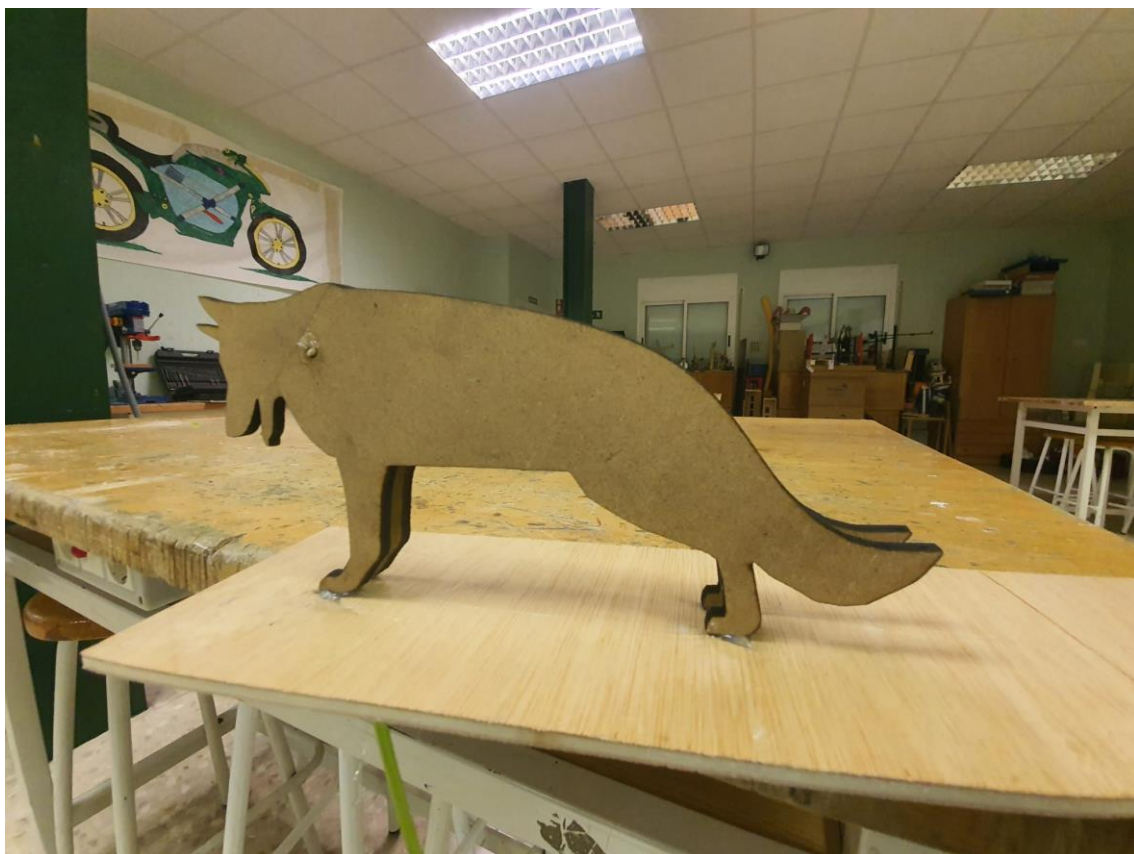


















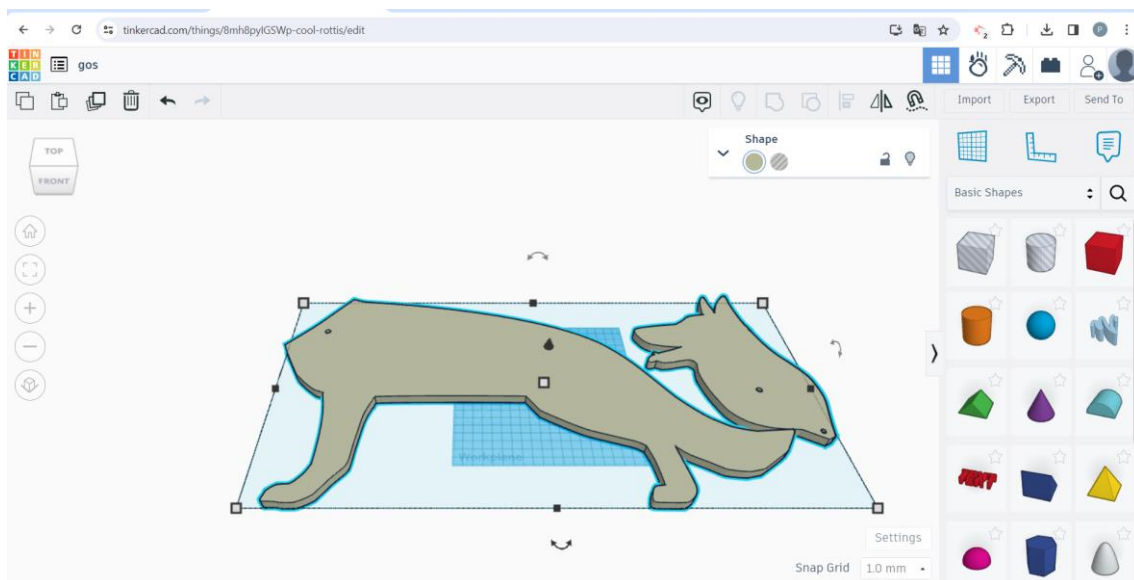
## Impressió 3D

Convertir a .svg

<https://convertio.co/es/png-svg/>



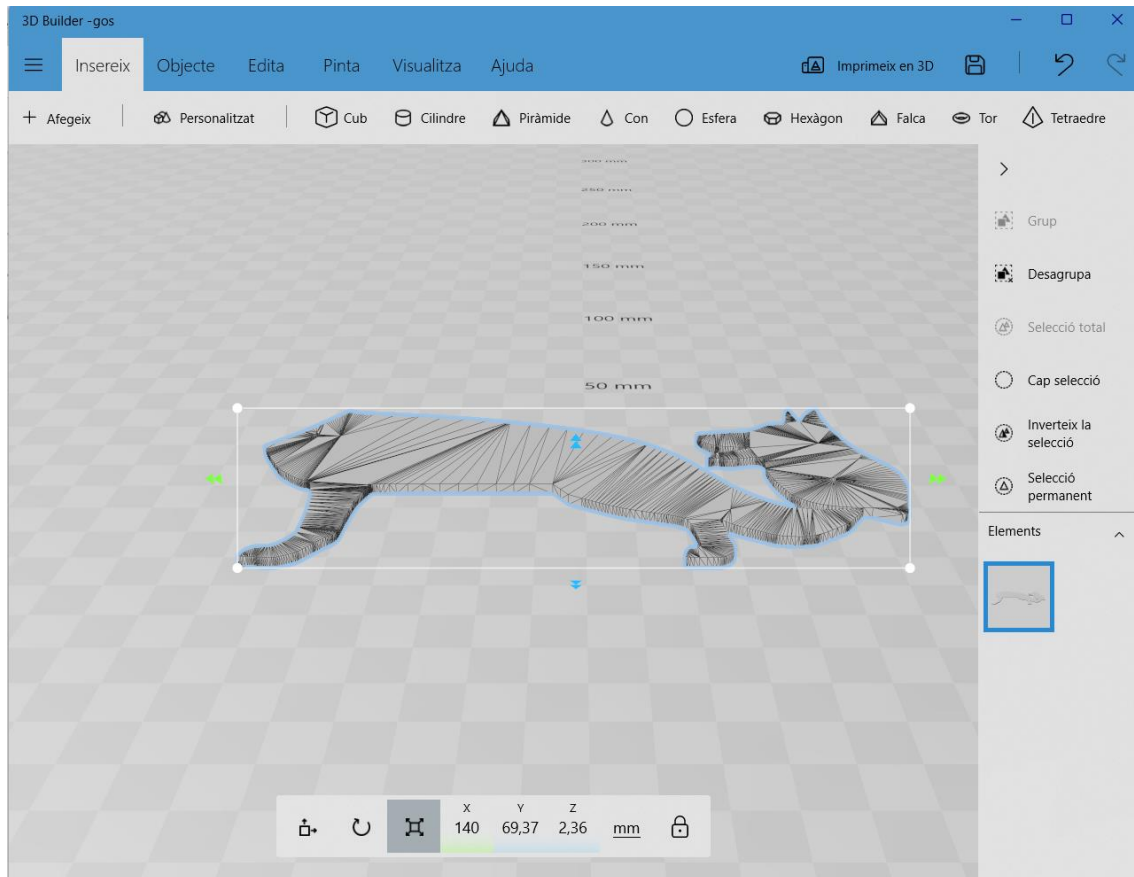
gos-negre-tallado  
ra-laser-v1-altura-  
110-mm.svg



Importar al tinkercad



gos.stl



Escalar al 3D Builder (a vegades es pot fer al mateix directament important amb .`png al 3D Builder)

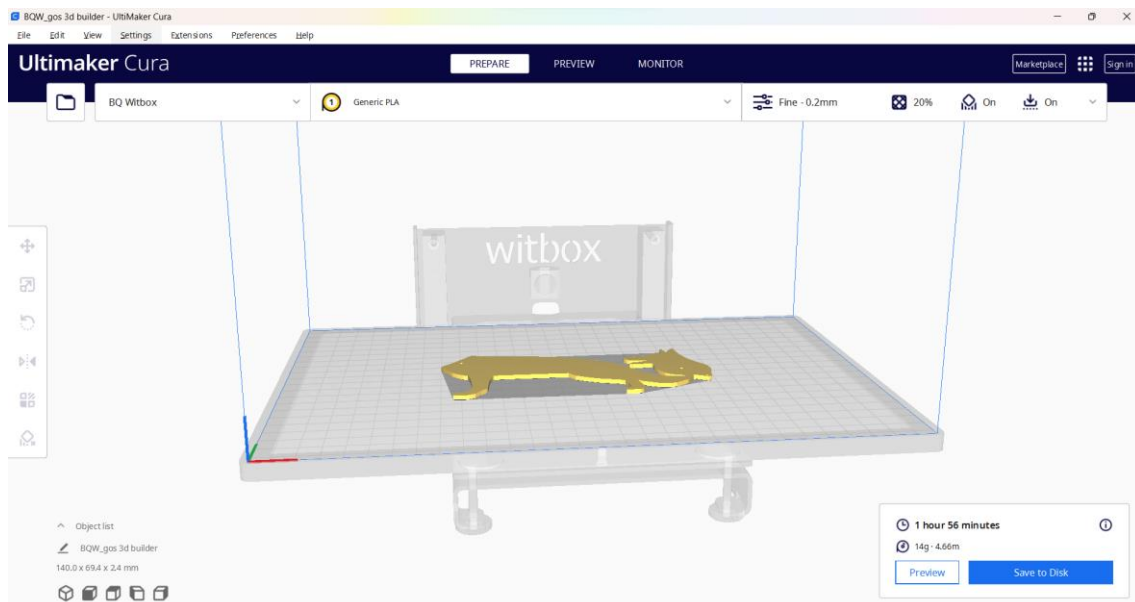
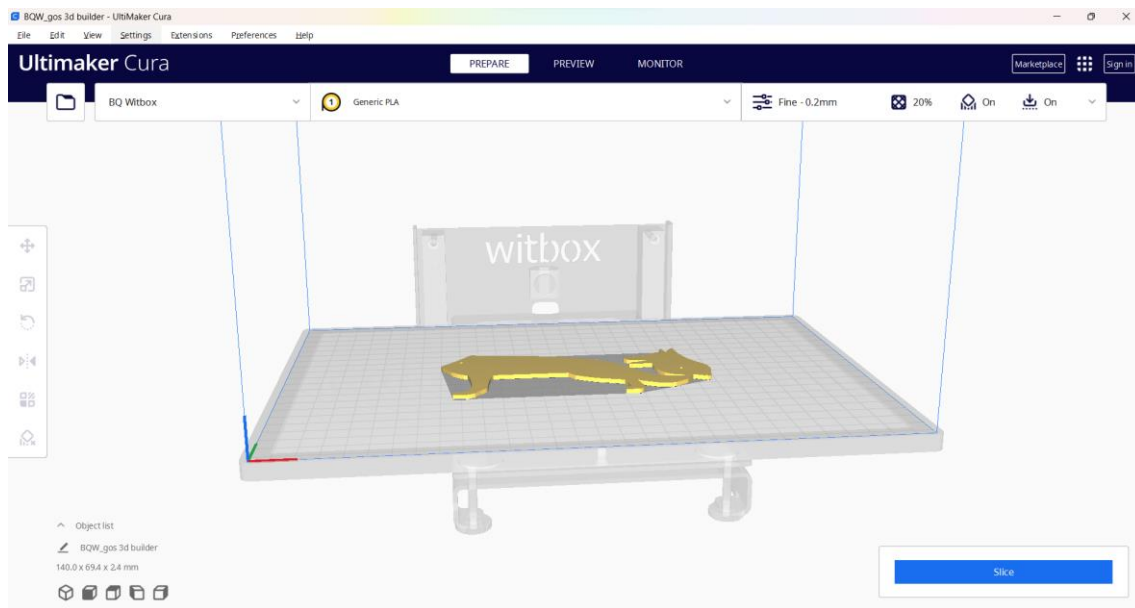
gos 3d builder.stl (14cm)



gos 3d builder.stl



## Modelització moviment del cap d'un gos



🕒 1 hour 56 minutes

📊 14g · 4.66m

Preview

Save to Disk

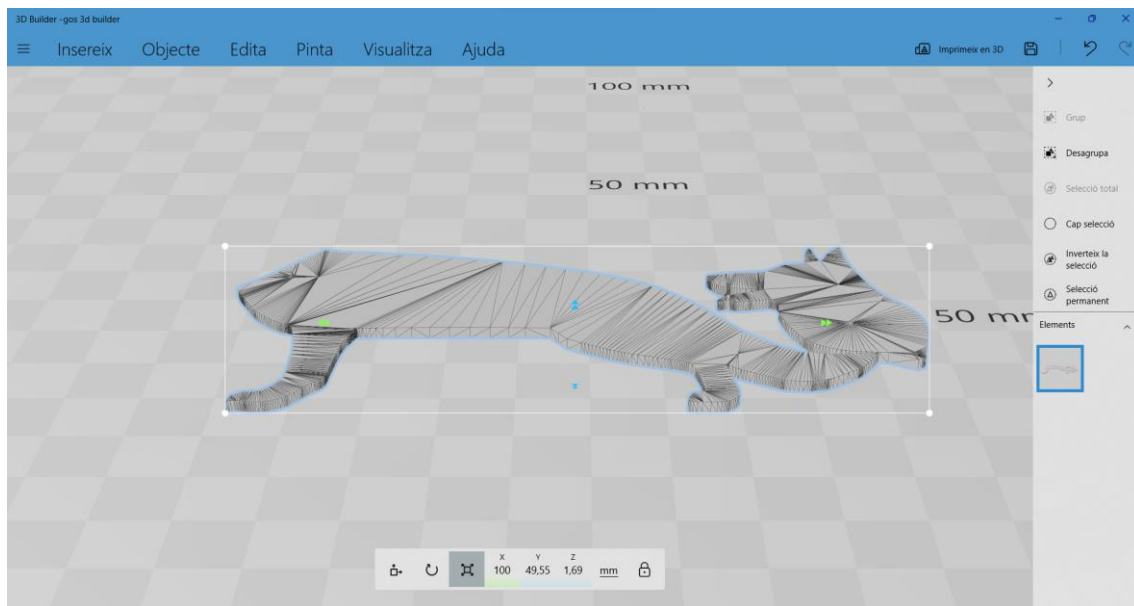


BQW\_gos 3d  
builder.gcode





## Versió escala 10 cm

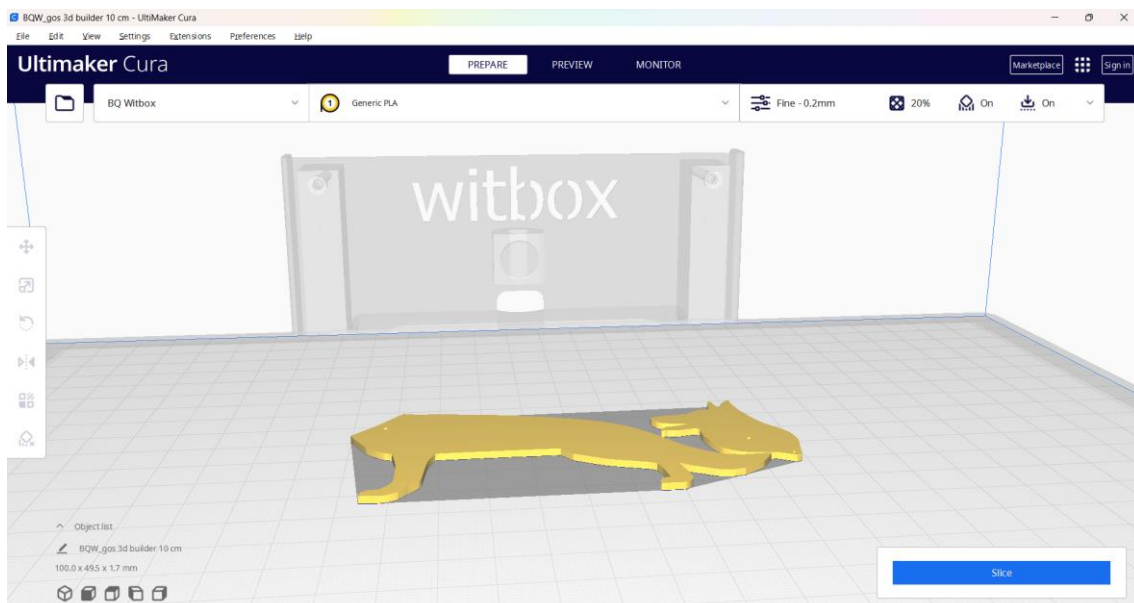


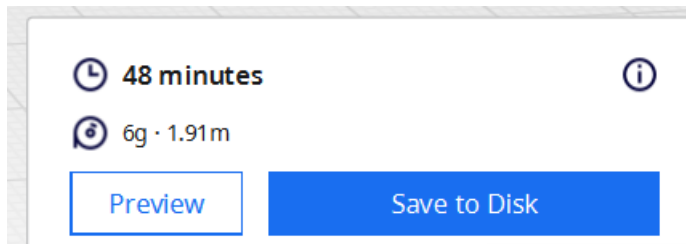
Esgalar al 3D Builder (a vegades es pot fer al mateix directament important amb .`png al 3D Builder)

gos 3d Builder 10 cm.stl (10cm)



gos 3d builder 10 cm.stl





BQW\_gos 3d  
builder 10  
cm.gcode

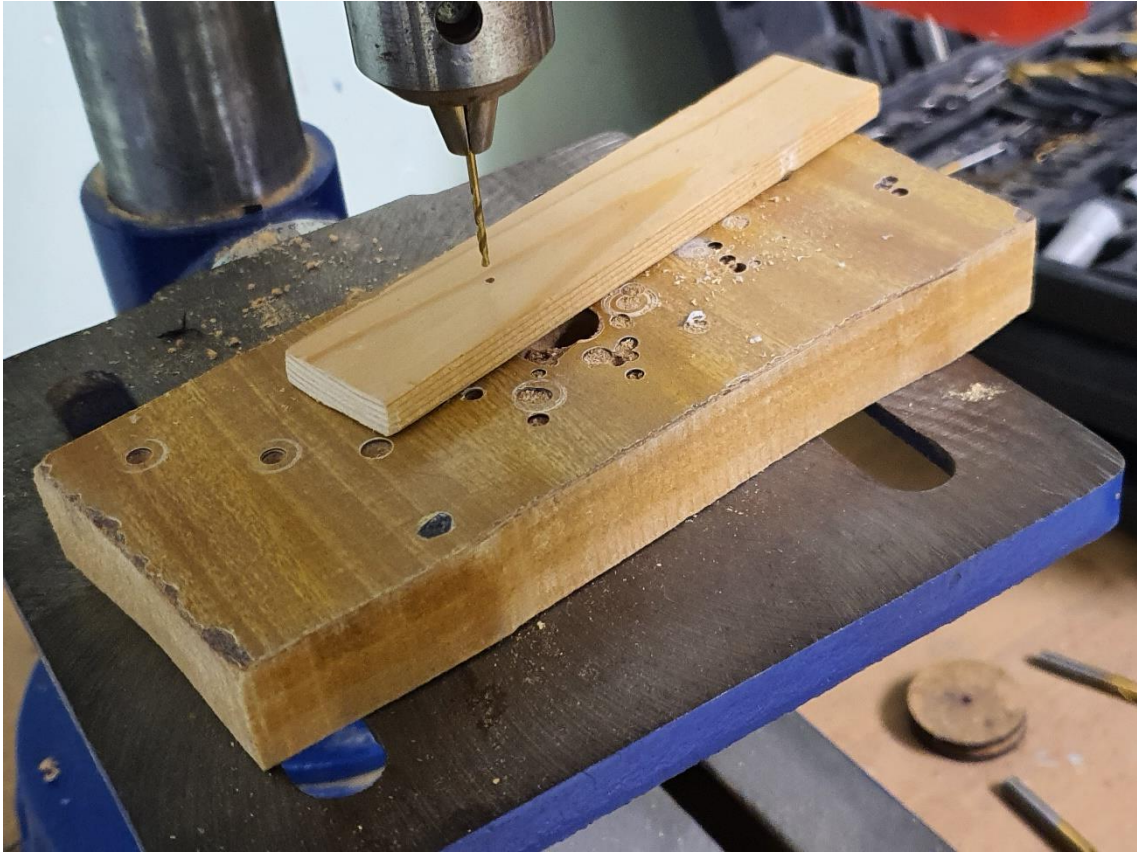






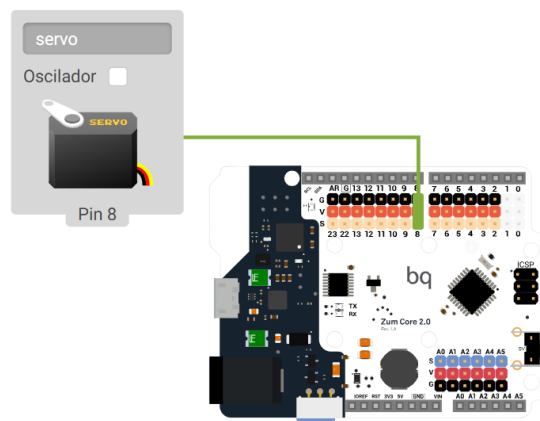








## Bitbloq. Placa BQ



### Variables globales y funciones

Variables

funcion1



Declarar variable

estat

=

"atura"

### Bucle principal (Loop)

Variable

estat

=

bluetooth\_de\_la\_placa

recibir

Si

Variable

estat

=

"mou"

ejecutar

Mover servo a 90 grados

Esperar 500 ms

Mover servo a 0 grados

Esperar 500 ms

Si

Variable

estat

=

"atura"

ejecutar

Mover servo a 45 grados

Esperar 200 ms

Control servo moviment gos



Mover servo a 2 grados

Esperar 700 ms

Mover servo a 15 grados

Esperar 700 ms

## Bitbloq Apps

App Gos 2024

Archivo Ver

Modo básico Modo avi

Resolución: 480x320px

Componentes

- Básicos
- Formulario
- Contenedores
- Visores
- Avisos
- Multimedia
- Sensores
- Social
- Conectividad

Pantalla 1

+ Añadir no visible

+ Añadir recurso

0 %







App Gos 2024

Archivo Ver



Pantalla 1

imagen1

imagen2

boton1

boton2

texto1

imagen3

+ Añadir no visible

placa\_zum\_core\_2.01

+ Añadir recurso

gos transparent tot negre me...

logo baixa bq



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more

atura



App creada per Cor de Maria Valls



## Modelització moviment del cap d'un gos

App Gos 2024

Archivo Ver

Pantalla 1 : +

Columna 1

- Al abrir Pantalla 1 ejecutar
- Conectar Placa Zum Core 2.0 placa\_zum\_core\_2.01

Columna 2

- Cuando Botón boton1 Clic
- Enviar Mensaje Placa Zum Core 2.0 placa\_zum\_core\_2.01 Mensaje mou
- Cuando Botón boton2 Clic
- Enviar Mensaje Placa Zum Core 2.0 placa\_zum\_core\_2.01 Mensaje atura

Bitbloq Live Test



FUNDACIÓ  
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COR DE MARIA

moure

atura



App creada per Cor de Maria Valls



gos transparent  
tot negre mes  
gran.png

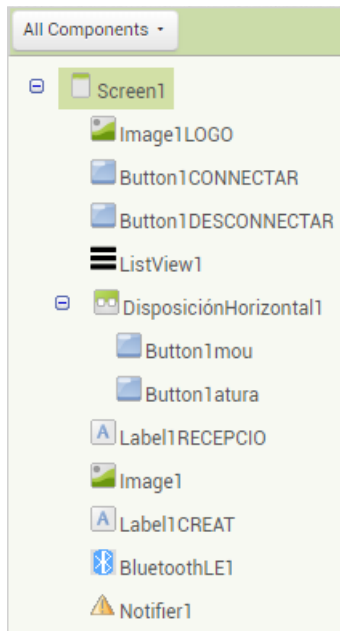


logo baixa bq.png



## AppInventor

### bluetoothBitBloq\_GOS





```
when Screen1.Initialize
do
  set Button1DESCONNECTAR.Visible to false

  initialize global funcio_bluetooth to "6E400001-B5A3-F393-E0A9-E50E24DCCA9E"
  initialize global característica_enviar to "6E400002-B5A3-F393-E0A9-E50E24DCCA9E"
  initialize global característica_rebre to "6E400003-B5A3-F393-E0A9-E50E24DCCA9E"
  initialize global dispositiu_vinculat to ""

  when Button1CONNECTAR.Click
  do
    call BluetoothLE1.StartScanning
    set ListView1.Visible to true
    set Button1DESCONNECTAR.Visible to true

  when BluetoothLE1.DeviceFound
  do
    set ListView1.ElementsFromStrings to BluetoothLE1.DeviceList
    set Button1CONNECTAR.Visible to false

  when ListView1.AfterPicking
  do
    call BluetoothLE1.StopScanning
    set ListView1.Visible to false
    set global dispositiu_vinculat to call BluetoothLE1.FoundDeviceAddress
    index: ListView1.SelectionIndex
    call BluetoothLE1.ConnectWithAddress
    address: get global dispositiu_vinculat

  when Button1DESCONNECTAR.Click
  do
    call BluetoothLE1.DisconnectWithAddress
    address: get global dispositiu_vinculat

  when BluetoothLE1.Connected
  do
    call Notifier1.ShowAlert
    notice: "Connectat"
    call BluetoothLE1.RegisterForStrings
    serviceUuid: get global funcio_bluetooth
    characteristicUuid: get global característica_rebre
    utf16: false

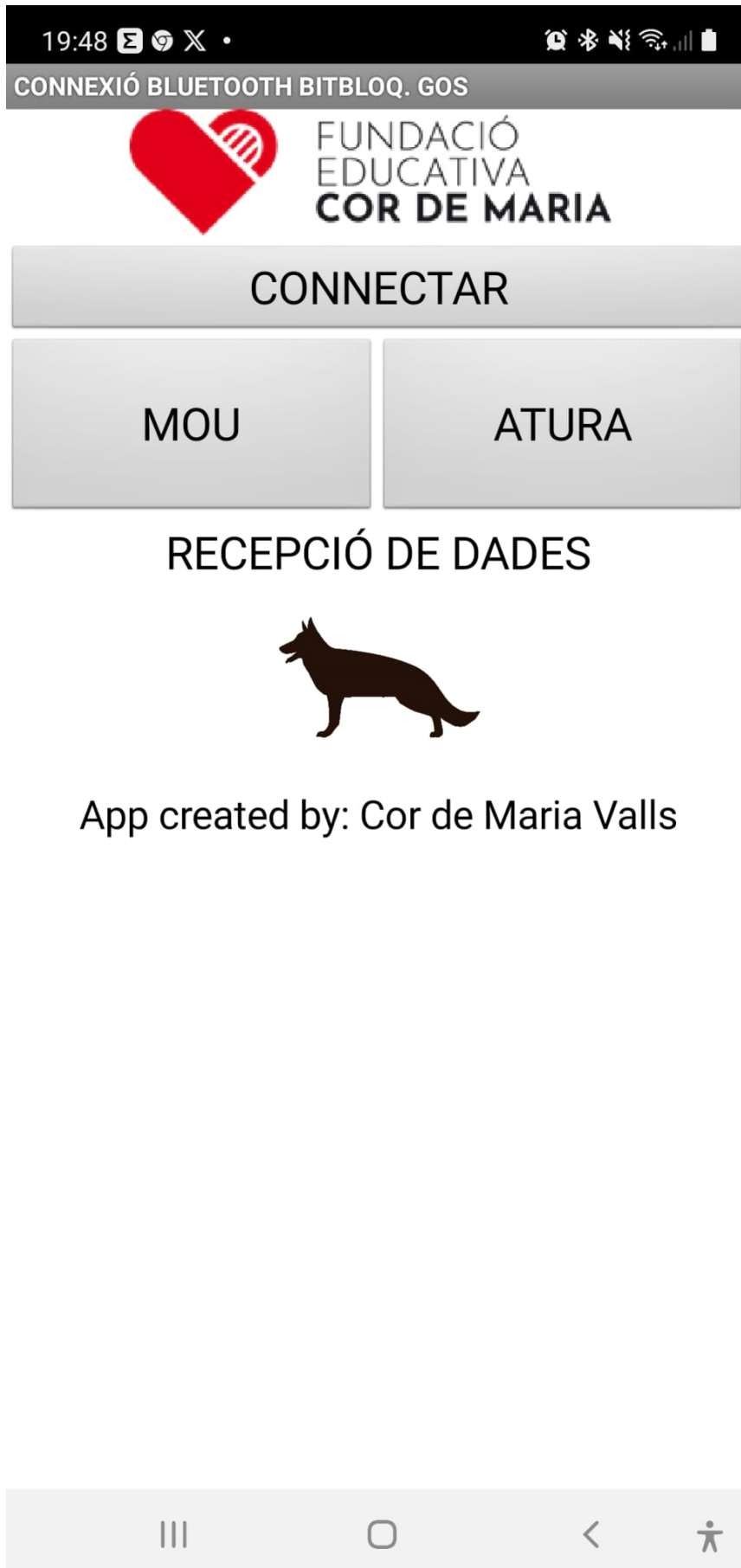
  when BluetoothLE1.Disconnected
  do
    call Notifier1.ShowAlert
    notice: "Desconnectat"
    set Button1CONNECTAR.Visible to true
    set Button1DESCONNECTAR.Visible to false

  when Button1mou.Click
  do
    call BluetoothLE1.WriteStrings
    serviceUuid: get global funcio_bluetooth
    characteristicUuid: get global característica_enviar
    utf16: false
    values: "mou"

  when Button1atura.Click
  do
    call BluetoothLE1.WriteStrings
    serviceUuid: get global funcio_bluetooth
    characteristicUuid: get global característica_enviar
    utf16: false
    values: "atura"

  when BluetoothLE1.StringsReceived
  do
    serviceUuid: characteristicUuid: stringValues
    do
      set Label1RECEPCIO.Text to select list item list: get stringValues
      index: 1
```







# COL·LEGI COR DE MARIA

## Centre concertat per la Generalitat de Catalunya

CURS 201 / 2023/2024

Nom Professor/a: Pere Compte Jové

Data: 10/01/2024

Curs: 3r i 4t d'ESO AULA DE TECNOLOGIA

### MATERIAL:

Paquet de brotxetes (~200 unitats) a poder ser d'uns 3cm de diàmetre i llargària igual o superior a 20cm i en cas contrari el que hi hagi

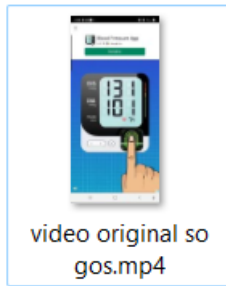
Caixa Portacanyes flexible (~225 unitats) dimensions 21 cm diàmetre 5mm material 100% polipropilè





## Audacity

So inicial vídeo



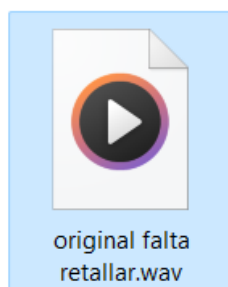
video original so  
gos.mp4



video original so gos.mp4

<https://convertio.co/es/mp4-wav/>

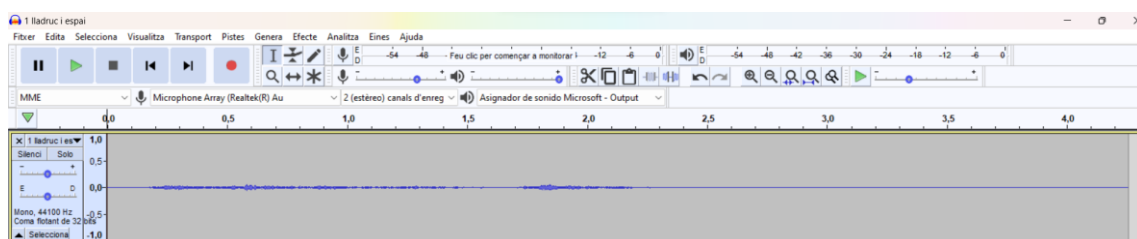
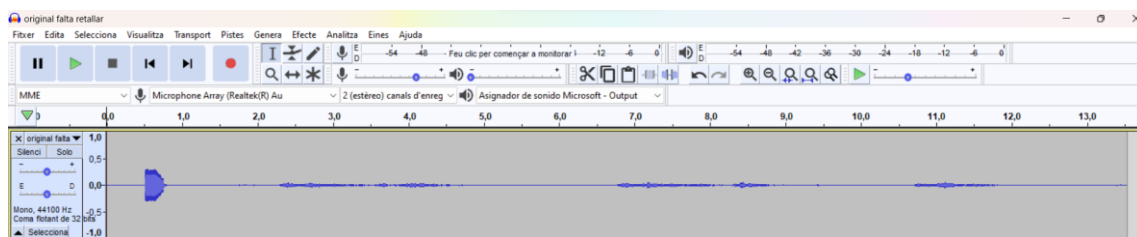
Convertir a .wav



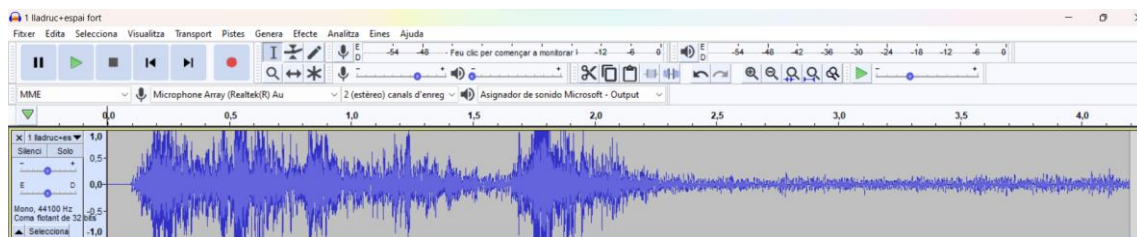
original falta  
retallar.wav



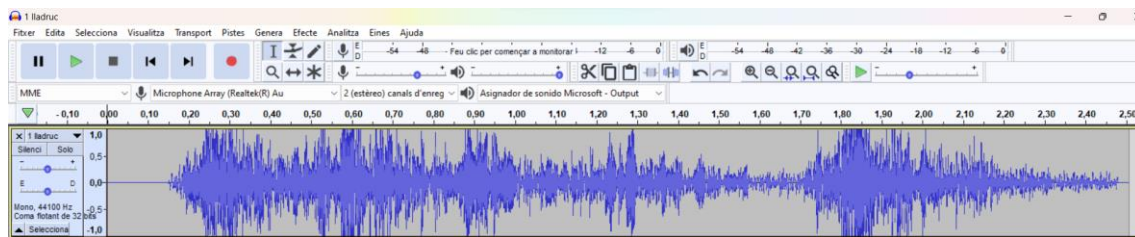
original falta retallar.wav



Seleccionar i amplificar



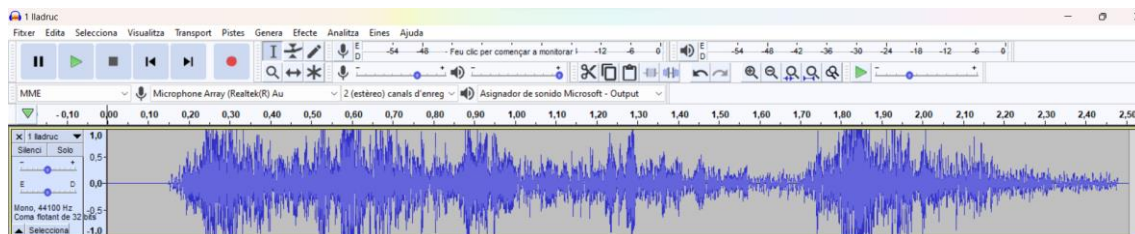
Retallar només el lladruc



Amb espai

-  1 lladruc i espai fort.mp3
-  1 lladruc i espai.mp3
-  1 lladruc.mp3
-  1 lladruc.wav
-  1 lladruc+espai fort.wav
-  1 lladruc+espai.wav
-  3 lladrucs.mp3
-  original falta retallar.wav

Provar a l'app sense espai

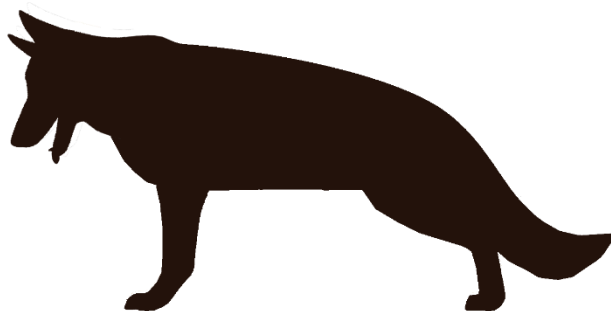
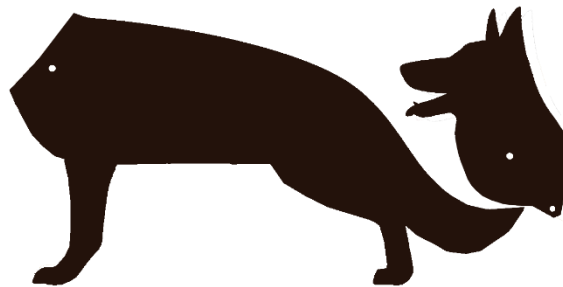
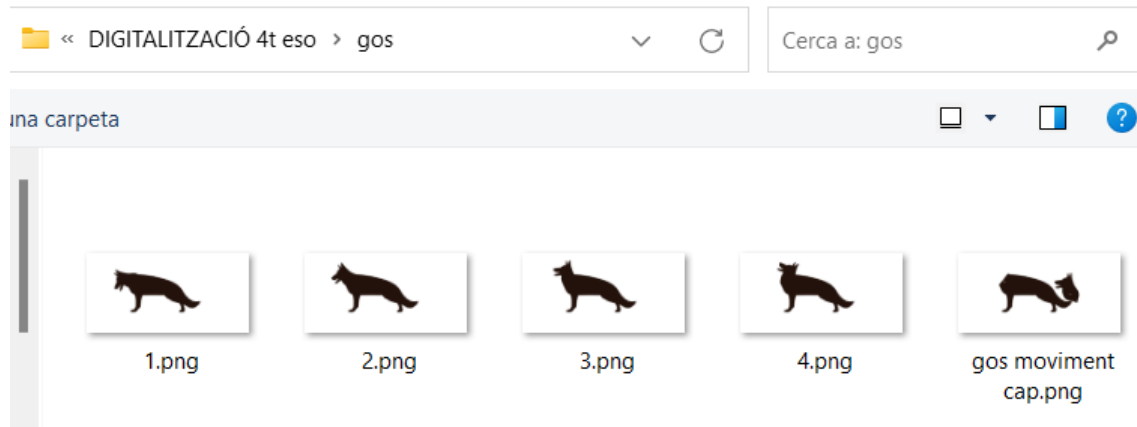


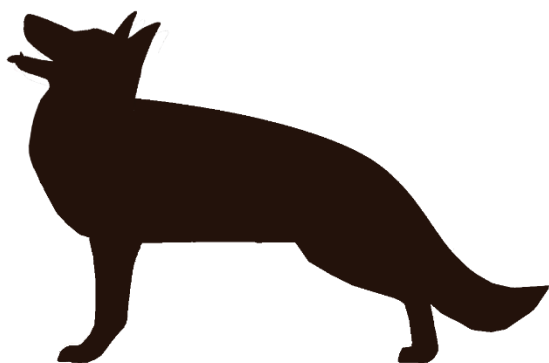
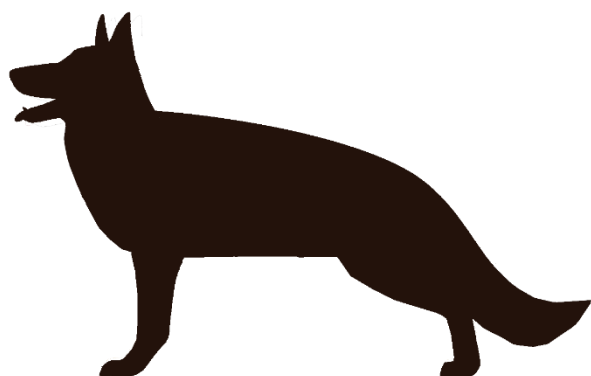
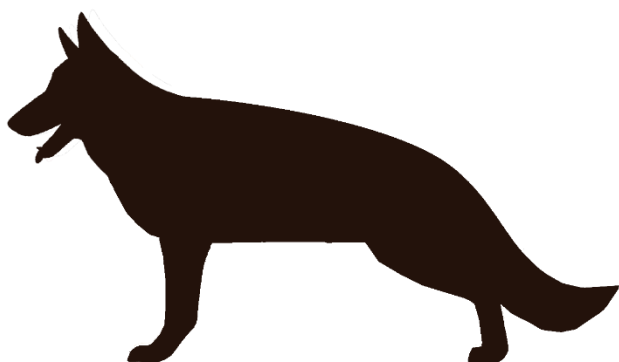
-  1 lladruc.mp3
-  1 lladruc.wav





## GIMP rotació imatge del cap del gos



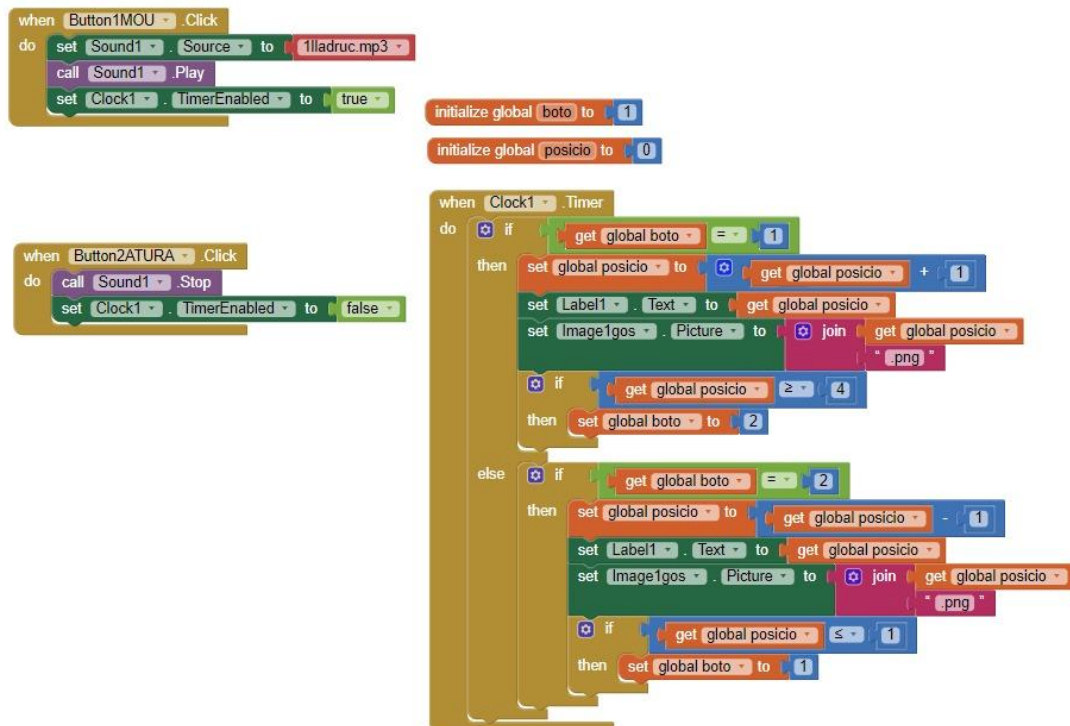
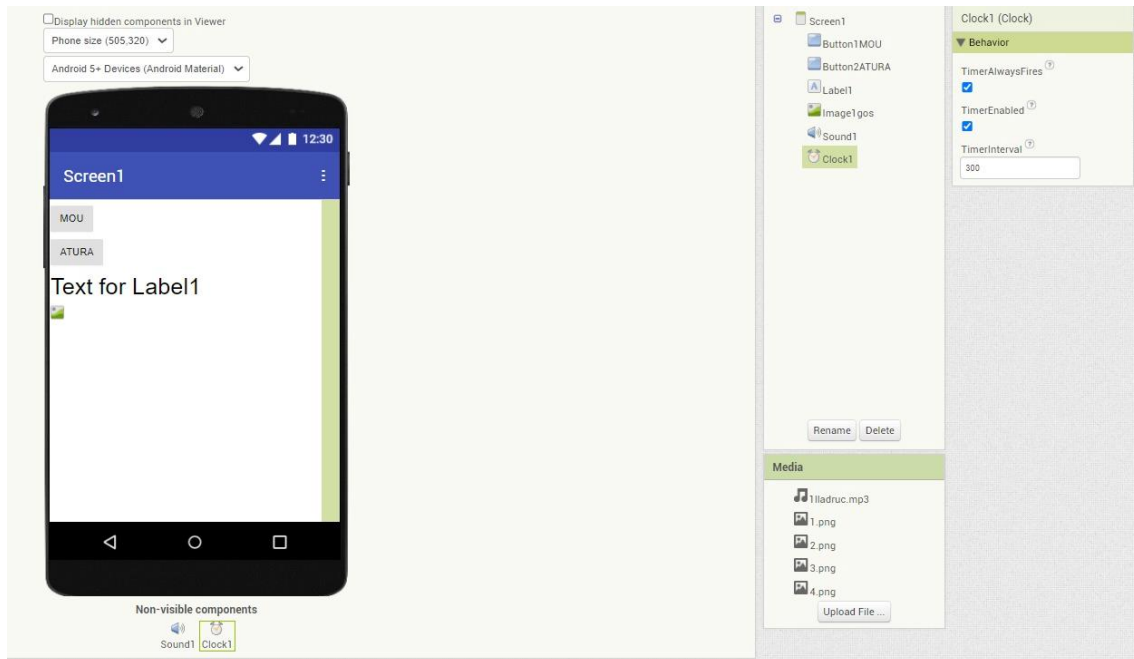




## AppInventor

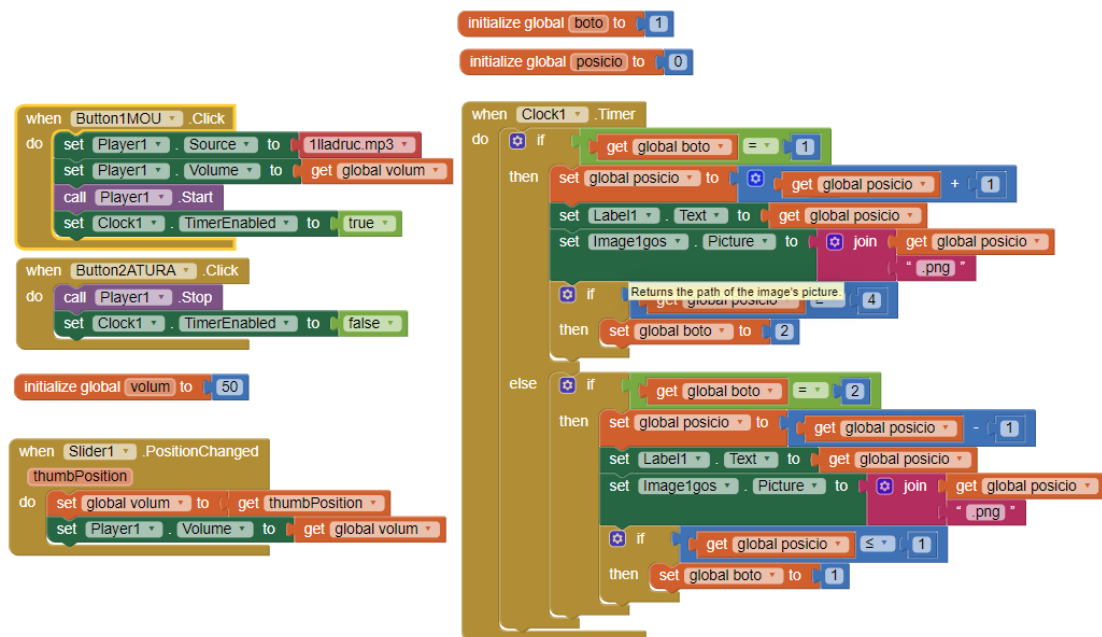
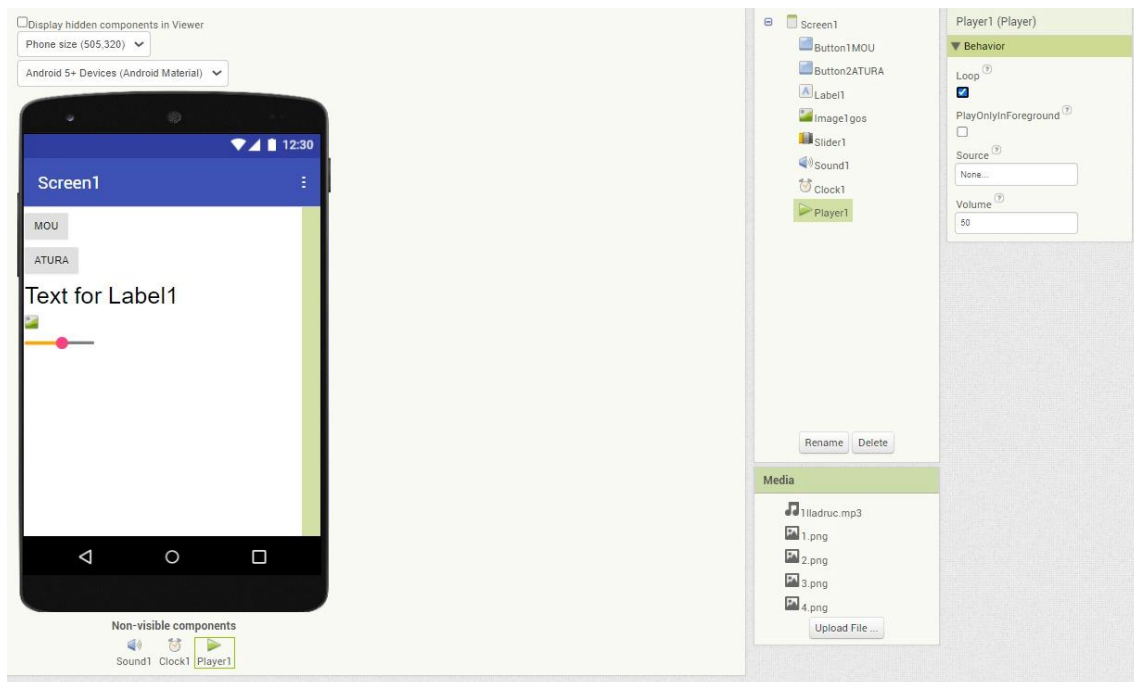
### Resum idees

Sound. El problema del sound és que no es pot regular el volum





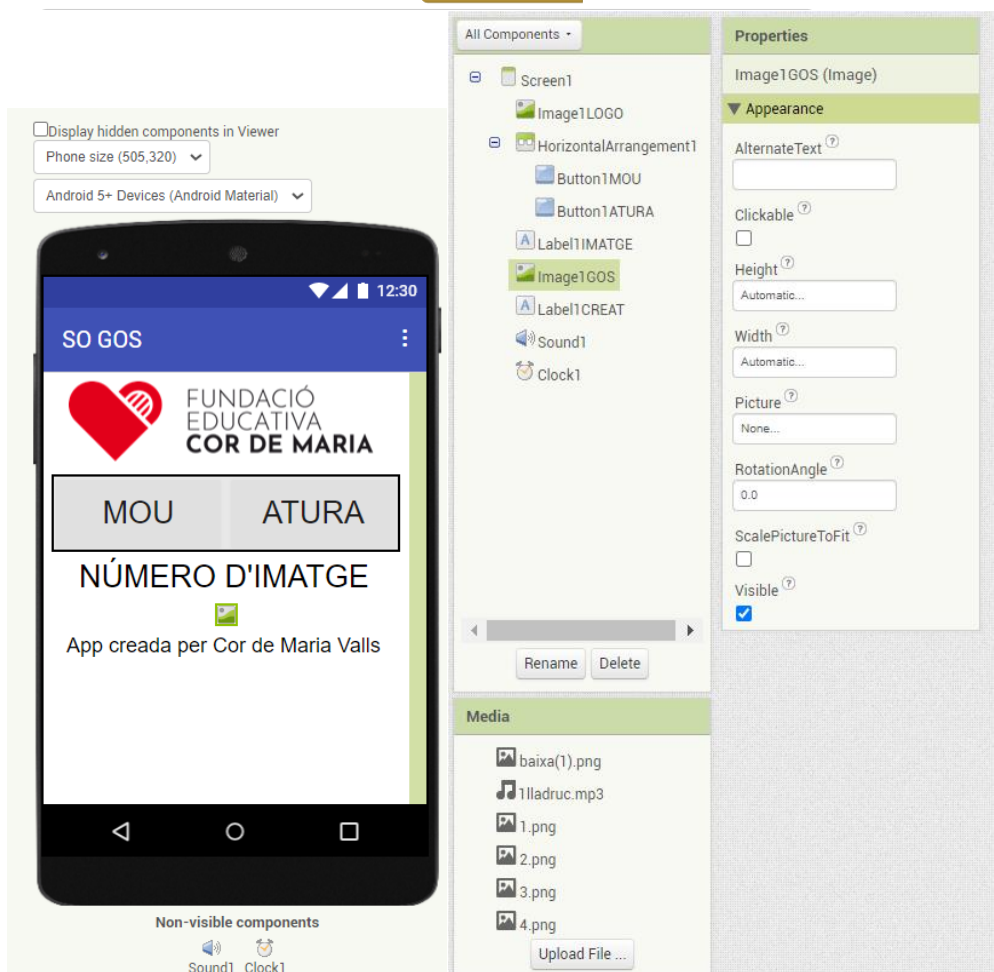
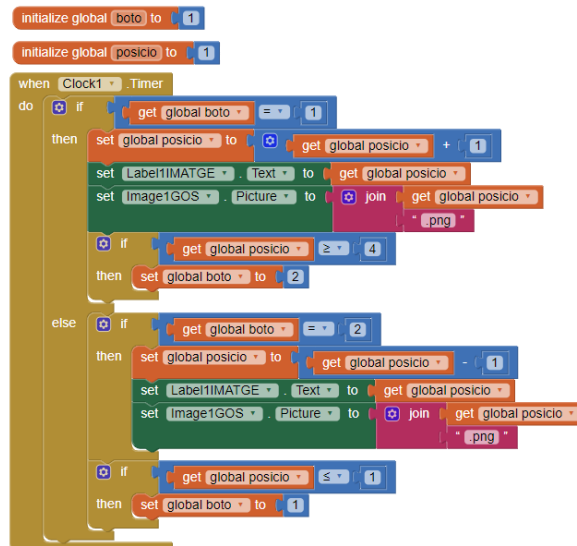
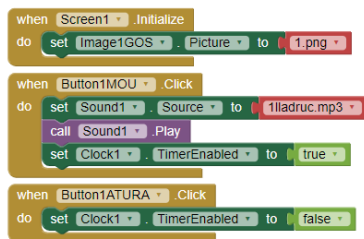
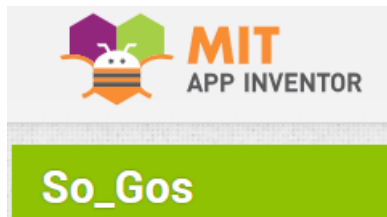
## EL Player et permet regular el volum





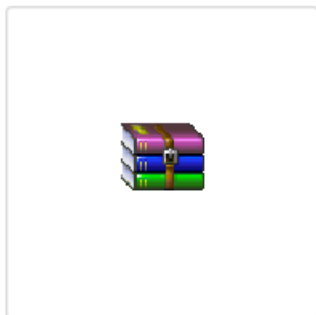


Classe 30/01/2024

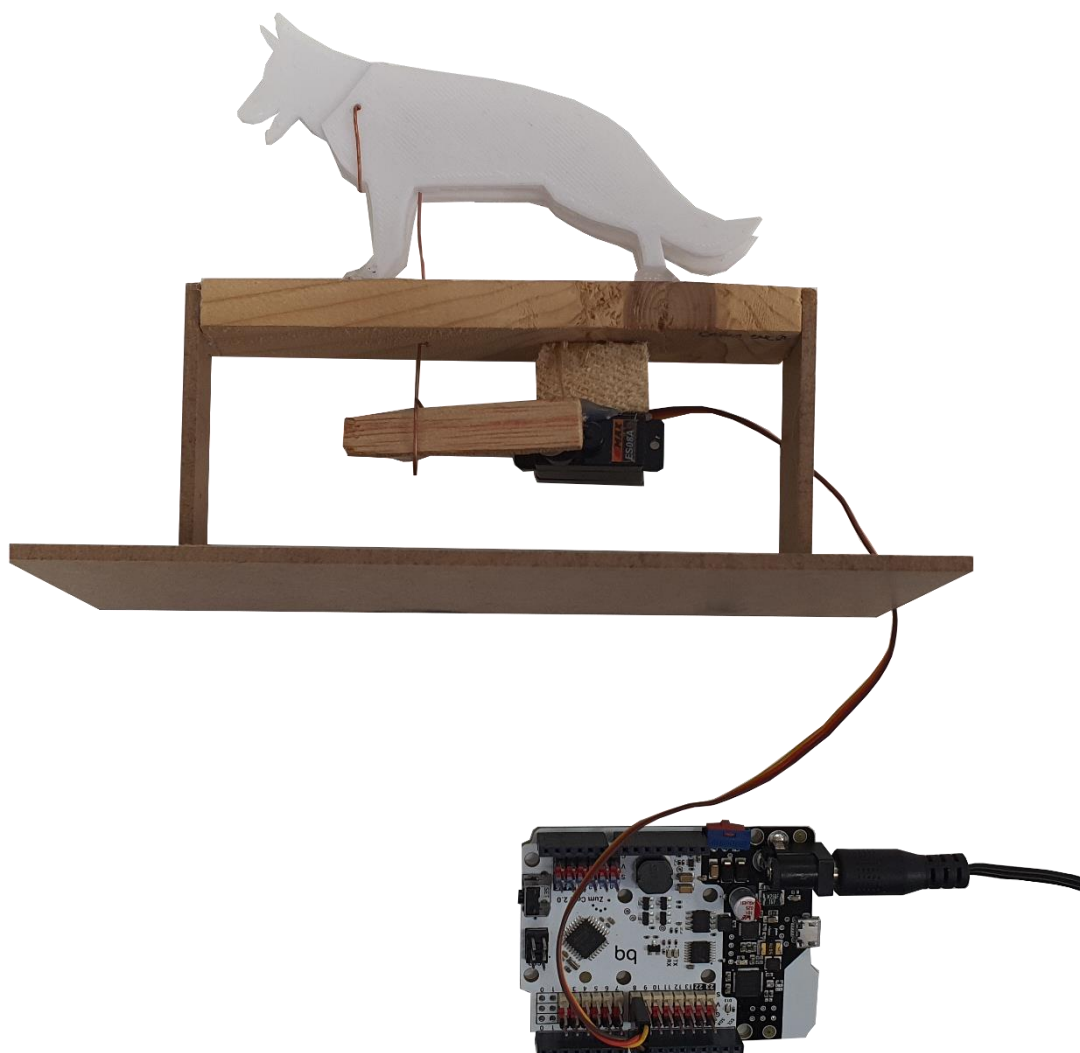


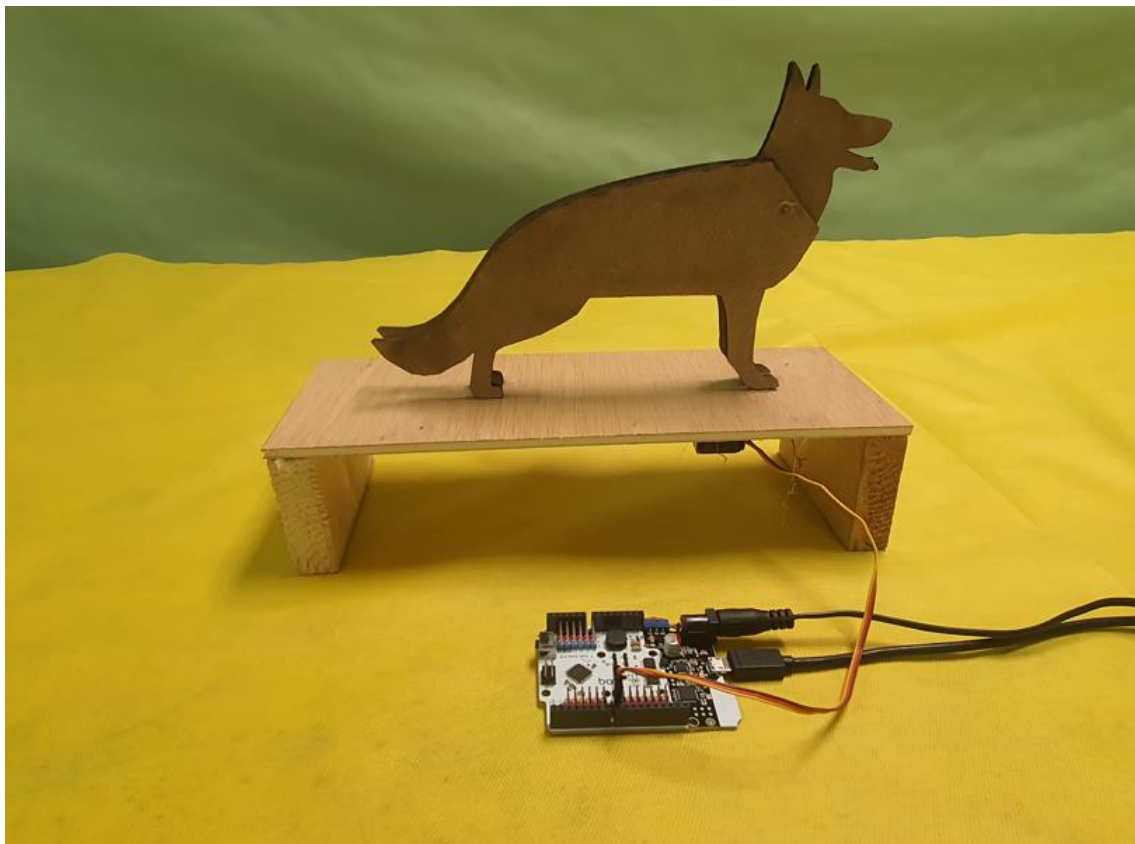
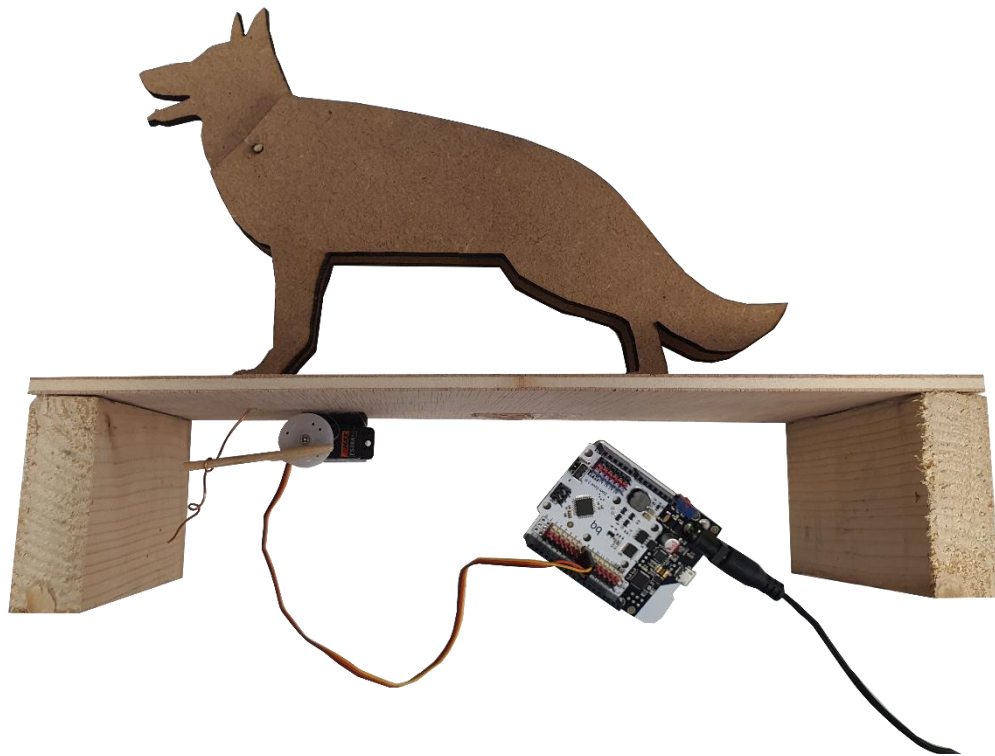


So\_Gos\_Control\_Volum.apk



So\_Gos\_Control\_Volum.aia







## Programes i aplicacions per realitzar el projecte

