Soundcool and STEAM

- **Science, Technology, Engineering and Mathematics** → Using the Soundcool system, connecting audio and video modules to perform audio and video processing, working with wifi and using mobile phones and tablets to control audio and video, and sound design for the story/play/film or novel.

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- **Arts** → music, literature, drawing, set design, etc. are all involved in creating and telling a multimedia story.

Workshop Goal

- Learn to use Soundcool
- Specifically, we will develop a multimedia presentation of the first scene of the comic "Tintin and the secret of the Unicorn"
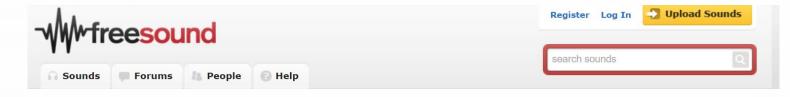
Free downloads web
(respect licenses, for instance Creative Commons 0 allows use without citing author)

https://freesound.org/

And where can I download sounds, images, copyright free?

https://unsplash.com/

https://www.pexels.com/es-es/videos/

Finding a Story

Developing Resources

- Analyze Scenes
  - Determine need for sound effects
  - Where to use ambient/background sounds
  - Select music for the scene
  - Tip: reuse sounds to avoid managing too many sounds
- Search for Sounds
- Create a Script

Create a Script

"TINTÍN AND THE SECRET OF THE UNICORN"
- **NEWSLETTER MUSIC TOGETHER WITH NEWSPAPER IMAGE.**

https://freesound.org/people/ehohnke/sounds/376306/

NEWS IN BRIEF

AN alarming rise in the number of robberies has been reported in the past few weeks. Daring pickpockets are operating in the larger stores, the cinemas and street markets. A well-organised gang is believed to be at work. The police are using their best men to put a stop to this public scandal.

Script (continued)

-TINTÍN WALKING AROUND THE MARKET

happy background music: https://freesound.org/people/pinkinblue/sounds/425971/

ambient sound of a market: https://freesound.org/people/SevaRandeep/sounds/98478/

- TINTÍN MEETS THE BROTHERS HERNÁNDEZ AND FERNÁNDEZ, who have had their wallets STOLEN.

Hernández: https://freesound.org/people/Jagadamba/sounds/254384/

Fernández: https://freesound.org/people/onerasmpz/sounds/371807/

TO BE CONTINUED!!!!!!!!!!
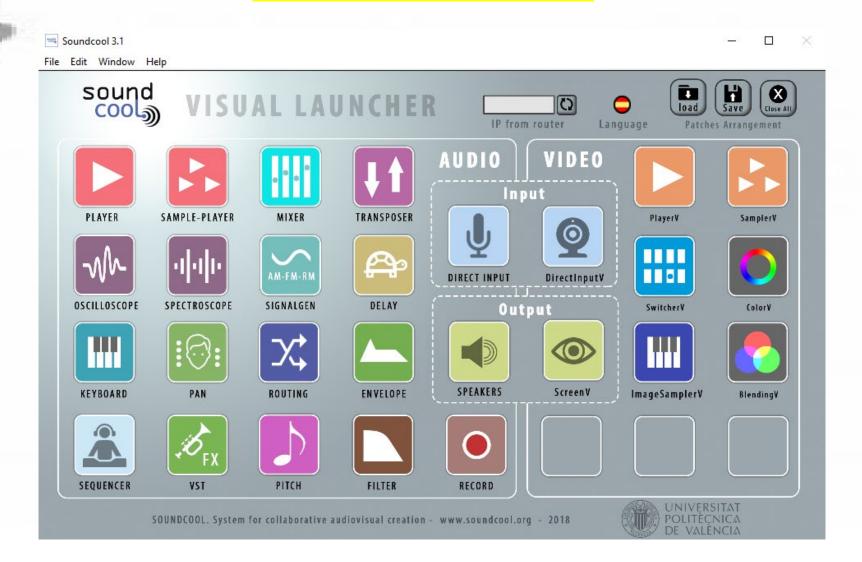
Freeware soundcool.org (PC & Mac)

sound cool

UNIVERSITAT POLITÈCNICA DE VALÈNCIA

sound cool VISUAL LAUNCHER

IP from router Language Patches Arrangement
load Save Close All

AUDIO   VIDEO

PLAYER   SAMPLE-PLAYER   MIXER   TRANSPOSER   Input   PlayerV   SamplerV
DIRECT INPUT   DirectInputV

OSCILLOSCOPE   SPECTROSCOPE   SIGNALGEN   DELAY   Output   SwitcherV   ColorV

KEYBOARD   PAN   ROUTING   ENVELOPE   SPEAKERS   ScreenV   ImageSamplerV   BlendingV

SEQUENCER   VST   PITCH   FILTER   RECORD

PLAYER/EFFECT   SAMPLER   KEYBOARD   ENVELOPE   MIXER   Settings

Slider 1

Slider 2

X   A   C   Vol.

Loop

WIFI)))

sound cool

App Soundcool OSC 3.1 Beta
Soundcool 3.1 Beta compatible

AUDIO   VIDEO

Soundcool is a collaborative system for music education and sound and video creation using smartphones, tablets, Kinect, MAX and Open Sound Control.

IP 192.168.1.85

Show messages   Connect

Port 8001

Credits:
Group of Performing Arts and Technology (PerformingARTech)
Universitat Politècnica de València (Spain)

Supported by:
Daniel & Nina Carasso Foundation
Càtedra Telefónica UPV
Soundcool disclaimer at soundcool.org

P1   PLAYER   _   X   out

Speed

x0   x1   x2

00:00:00

Loop   Vol.

open

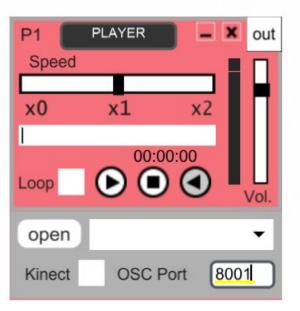Kinect   OSC Port   8001
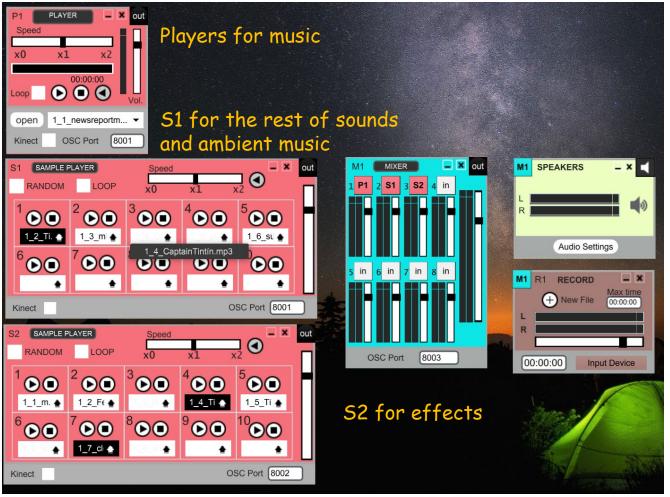
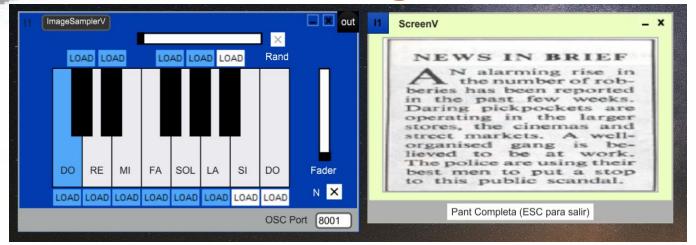# Workshop Tintín and the secret of the unicorn (audio)

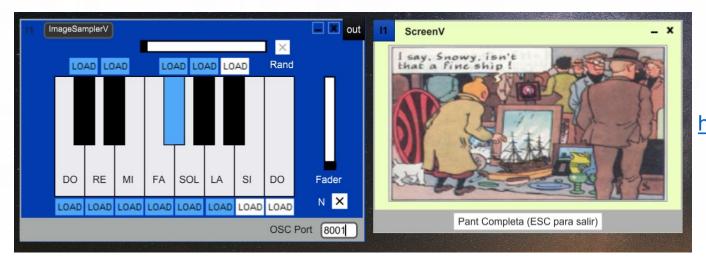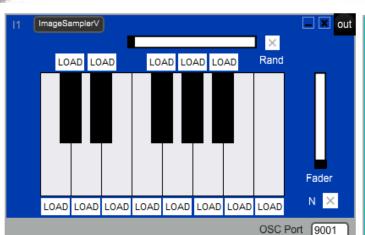# Workshop Tintín and the secret of the unicorn (Image)

Ej. Dominicas de Paterna
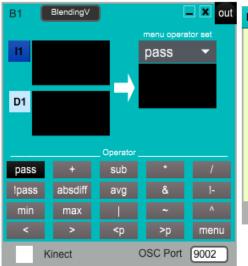https://youtu.be/e8LHyoR2dYk

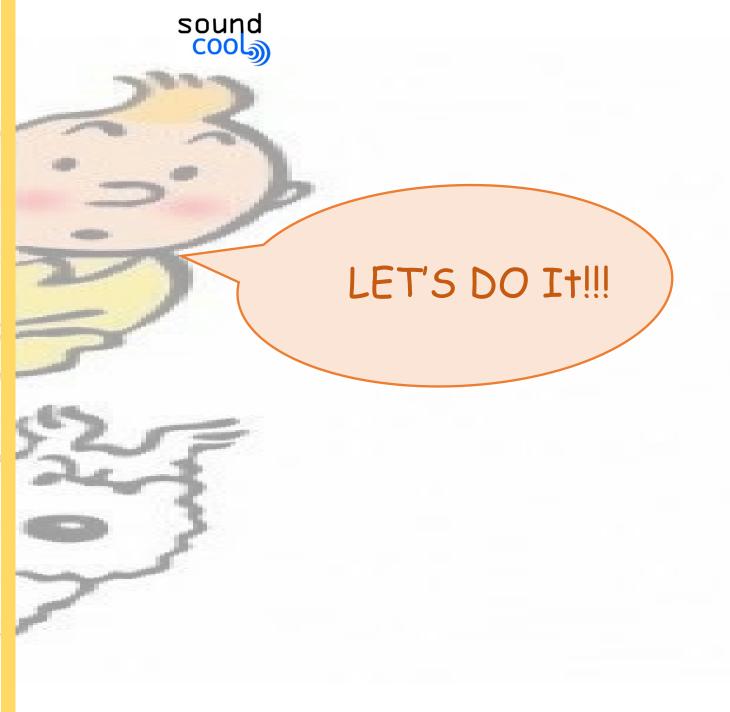# Workshop Tintín and the secret of the unicorn

Background with puppets https://bit.ly/3at9Weo
Opera Project https://soundcool.org/proyectos/

Make Sheet Music or Detailed Script

- To perform the work, you will need a detailed script or time-line.
- (relates to the number line in math, to music notation, to plotting scientific data and (eventually) to calculus)
- Contains:
  - Minute and second of the scene of the action.
  - Buttons to be pressed by the students
  - Sound and image labels or descriptions
  - In case of music performance or improvisation, indicate the style, e.g. "Melody with the Phrygian scale from 1:23 to 3:05".

Review and Improvement of the Piece

- **S**ubstitute,
- **C**ombine,
- **A**dapt,
- **M**odify,
- **D**elete,
- **R**eform

soundcool.org

Thank you!!

instagram.com/soundcoolproject

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twitter.com/soundcool_

youtube.com/c/soundcoolproject

Tutorials English subtitled

Help Telegram Group
https://t.me/soundcool

MOOCs Soundcool **www.EdX.org**