

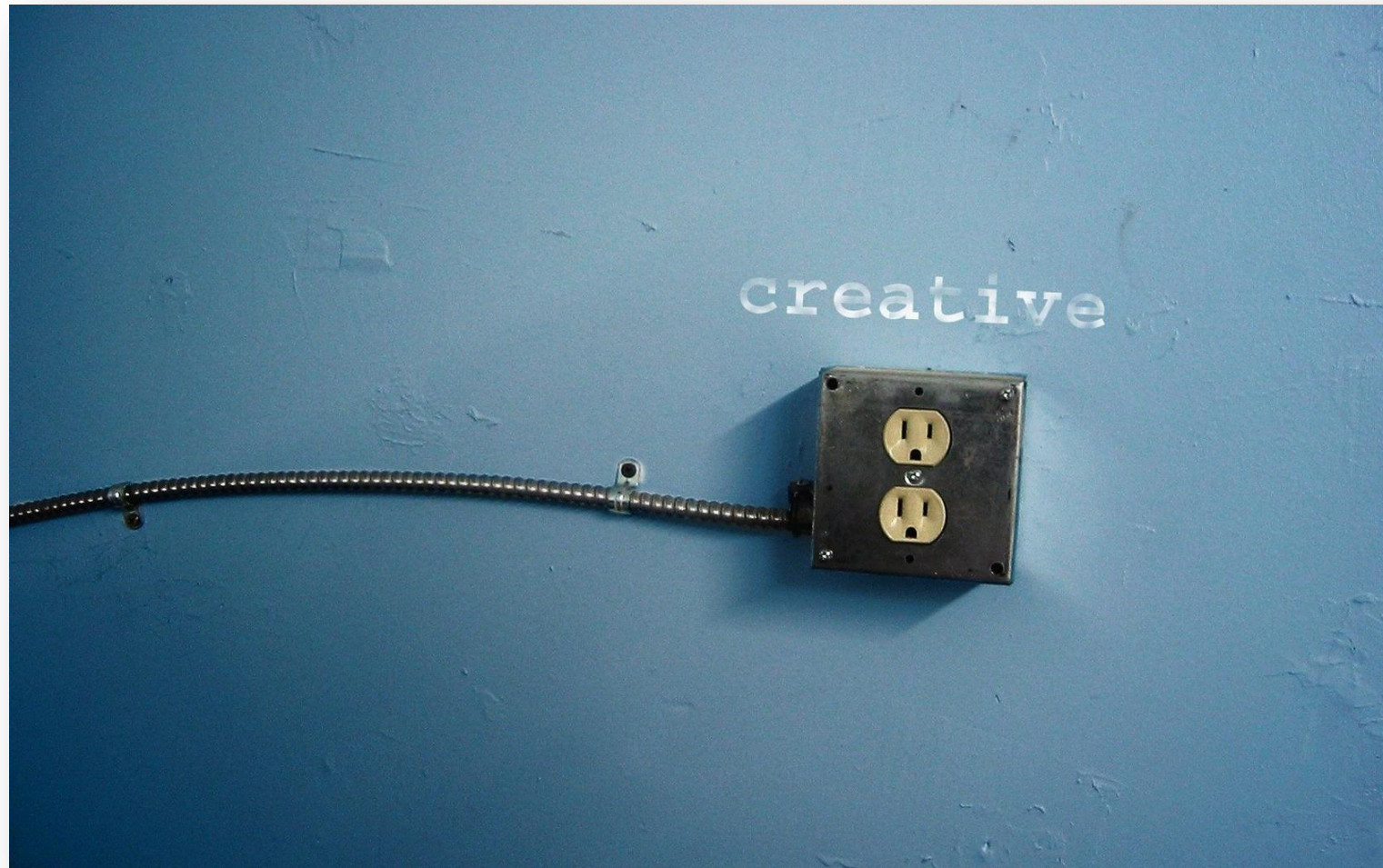
# CREATIVE MUSIC TECHNOLOGY EQUIPMENT, SMARTPHONES, TABLETS AND THE INTERNET

Nektarios Rodosthenous

American Academy Larnaca

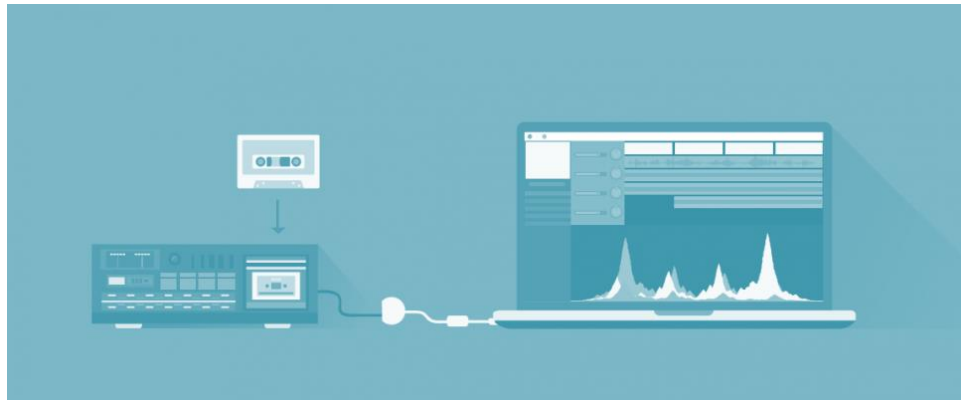


# USE TECHNOLOGY CREATIVELY!



# LEARNING OBJECTIVES

- Some music production skills:
  - recording,
  - editing,
  - processing,
  - sampling,
  - looping and
  - re-mixing



# EVOLUTION OF TECHNOLOGY

## Photo Camera

- First photograph (1826)
- Kodak Camera (1888)
- Kodak Instamatic 100 (1963)
- Nikon FA (1983)
- Kodak DCS-100 (1991)
- Casio QV-11 (1995)
- Nikon D3 (2007)

## Movie Camera

- Lumiere Cinematographe (1895)
- Bolex H16 (1933)
- Canon Auto Zoom 518 (1968)
- JVC GR-C1 (1984)
- Sony Handycam DCR-VX1000 (1995)
- Sony Handycam HDR-FX1 (2004)

## Navigation

- Garmin GPS100 (1990)
- TomTom Navigator (2001)

## Personal Digital Assistant

- Apple Newton MessagePad (1994)
- Palm Pilot (1996)

Professional imaging equipment

## Telephone

- Bell Telephone Detroit (1877)
- AT&T Touch Tone (1953)
- Motorola DynaTAC 8000X (1983)
- Nokia N95 (2007)
- Apple iPhone (2007)
- Mobile Box (2011)

RoadBox

## Remote Control

- Phileo Mystery Control (1939)
- Siedle Video Portavox (1972)
- Zenith Space Command (1956)
- CL9 CORE universal remote (1987)

## Portable media player

- Sony Walkman TPS-L2 (1979)
- Sony MiniDisc MZ1 (1991)
- Apple iPod (2001)
- Parrot Photo Viewer (2006)
- Sony Discman D-50 (1984)
- M-Systems DiskOnKey (2000)

## Music player

- Berliner Gramophone (1888)
- Philips CD 100 (1982)
- Philips CD-i 200 (1991)
- Toshiba DVD SD-3000 (1996)
- Samsung Blu-Ray BD-P1000 (2006)
- Toshiba HD-DVD HD-A1 (2006)

## Video recorder

- JVC HR-3300 (1976)
- Sony Betamax (1975)
- Tivo HDR 110 (1999)
- Apple TV (2007)
- Home Box (2011)

## Television

- Plessey Baird Televisor (1930)
- RCA CT-100 (1954)
- DVB-T (1998)
- DVB-S (1995)
- YouTube (2005)
- Nokia N92 DVB-H (2005)

HomeBox

## Radio

- RCA-Westinghouse Radiola Senior (1921)
- Regency TR-1 (1954)
- Philips DAB452 (1995)

## Calculator

- Texas Instruments SR-10 (1973)
- HP 12c (1981)

## Personal computer

- Commodore 64 (1982)
- Apple II (1977)
- Apple Macintosh (1984)
- Windows Media Center (2002)
- Apple iMac G5 (2004)

## Game Console

- Nintendo Entertainment System 1983
- Atari 2600 (1977)
- Nintendo Game Boy (1989)
- Sony PlayStation 2 (2000)
- Nintendo Wii (2006)

Professional workstations

## Arcade

- Computer Space (1971)
- Pong (1972)
- Pac Man (1980)
- Sega Out Run (1986)
- Konami Dance Dance Revolution (1996)
- Homebrew MAME cabinet (1999)



© 2008 Martijn Koch

# TAPE MACHINE (PROFESSIONAL SOUND IN STUDIOS)



# TAPE BY FOCUSRITE (iOS)

APPLICATION FOR VOICE RECORDING, SPEED CHANGING



## Tape (free)

- Recording
- Scratching
- Time and pitch shifting:
  - a. Slow down
  - b. Fast forward
  - c. Reverse

# SOUND

## ○ Speed

- Slow
- Fast

→ HOW DOES IT SOUND IN SONGS

**Normal**



**Fast**



**Slow**



→ LET'S TRY THIS LIVE

## ○ Applications

- **TAPE:** what kind of musicians are using this?
- **AutoRap:** rapping application with fast/ slow options
- **Online applications:**  
<https://musiclab.chromeexperiments.com/Voice-Spinner>

→ Any volunteers hear how their voice sounds like?



# VOICE SPINNER (MUSICLAB CHROME EXPERIMENTS)

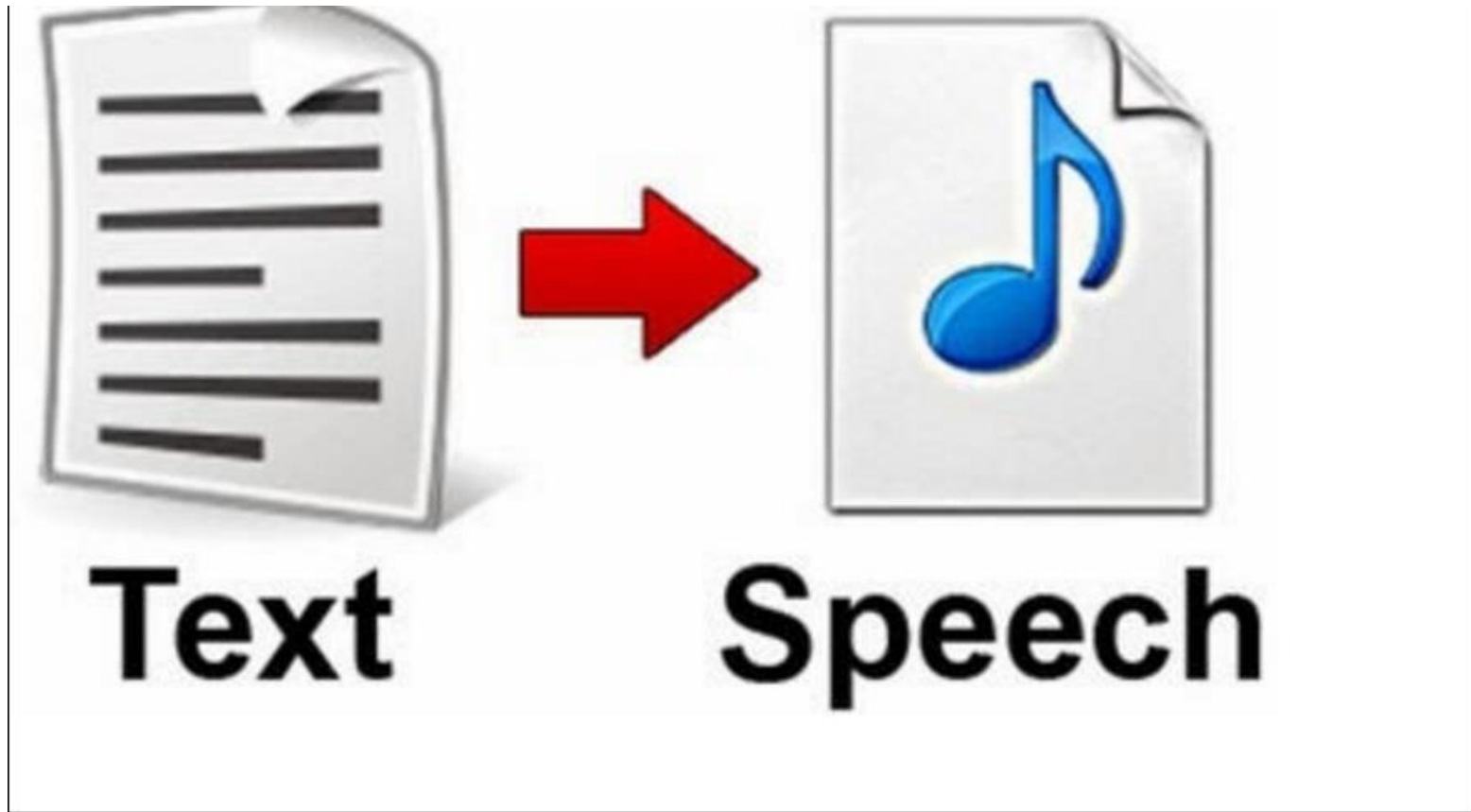
VOICE SPINNER

---





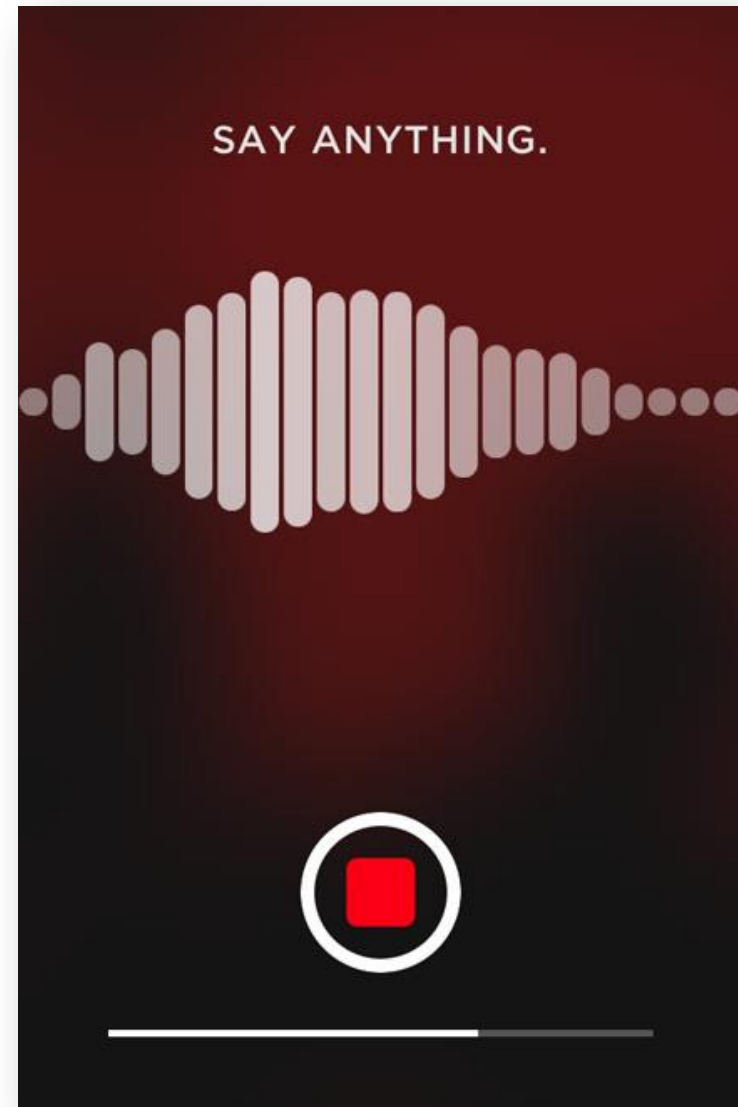
# ONLINE TEXT-TO-SPEECH APPLICATIONS



→ **Google Text-to-speech:** online, cross-platform and free

# AUTORAP BY *SMULE*

- Only for iOS
- Turn words into music/  
rapping
- Just speak or rap into the mic and let the app do the rest!
- **2 free songs**, in-app purchases if you want to buy all the background songs which are available in the application.



# TYPATONE ONLINE WEBSITE (CROSS-PLATFORM)

[WWW.TYPATONE.COM](http://www.typatone.com)



Share this message:

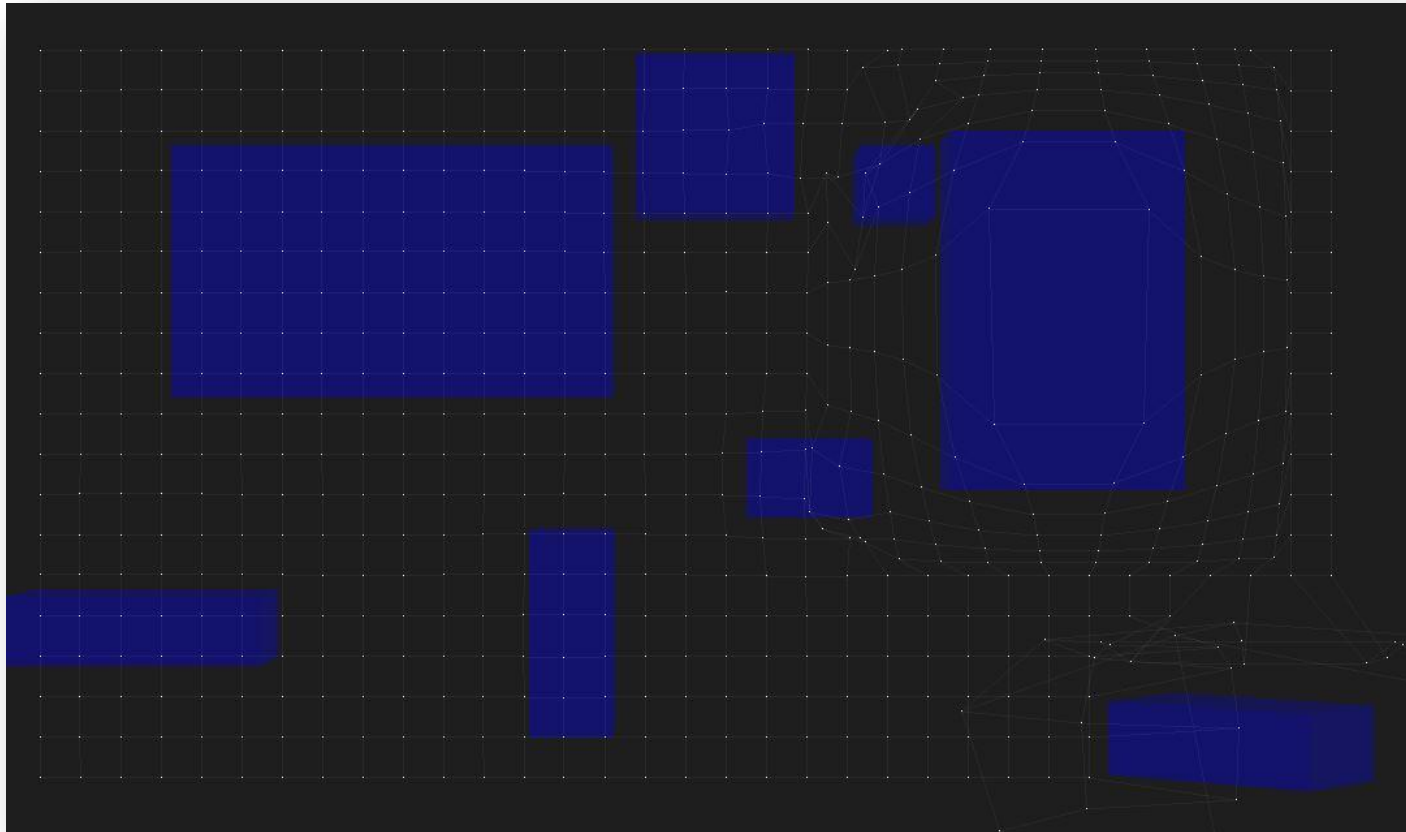


<http://typatone.com/m/J8mFlv9xB2>

**Just type:** Change sounds, leave spaces (= silences), loop (repeat) your text, and then share it on the social media or via email.

# *GLITCHSCAPE* ONLINE WEBSITE (CROSS-PLATFORM)

[WWW.GLITCHSCAPE.COM](http://WWW.GLITCHSCAPE.COM)



**Shapes:** Change pitch, leave spaces (= silences), loop (repeat) your shapes → any ideas on this application?

# *TUNETRACE* BY QUEEN MARY UNIVERSITY (CROSS-PLATFORM)

## **Image-to-music**

**Realisation:** Take pictures directly from your tablet or smartphone.



*Think...  
Create...  
Explore...*



# *KEEZY BY ELEPATH (IOS)*



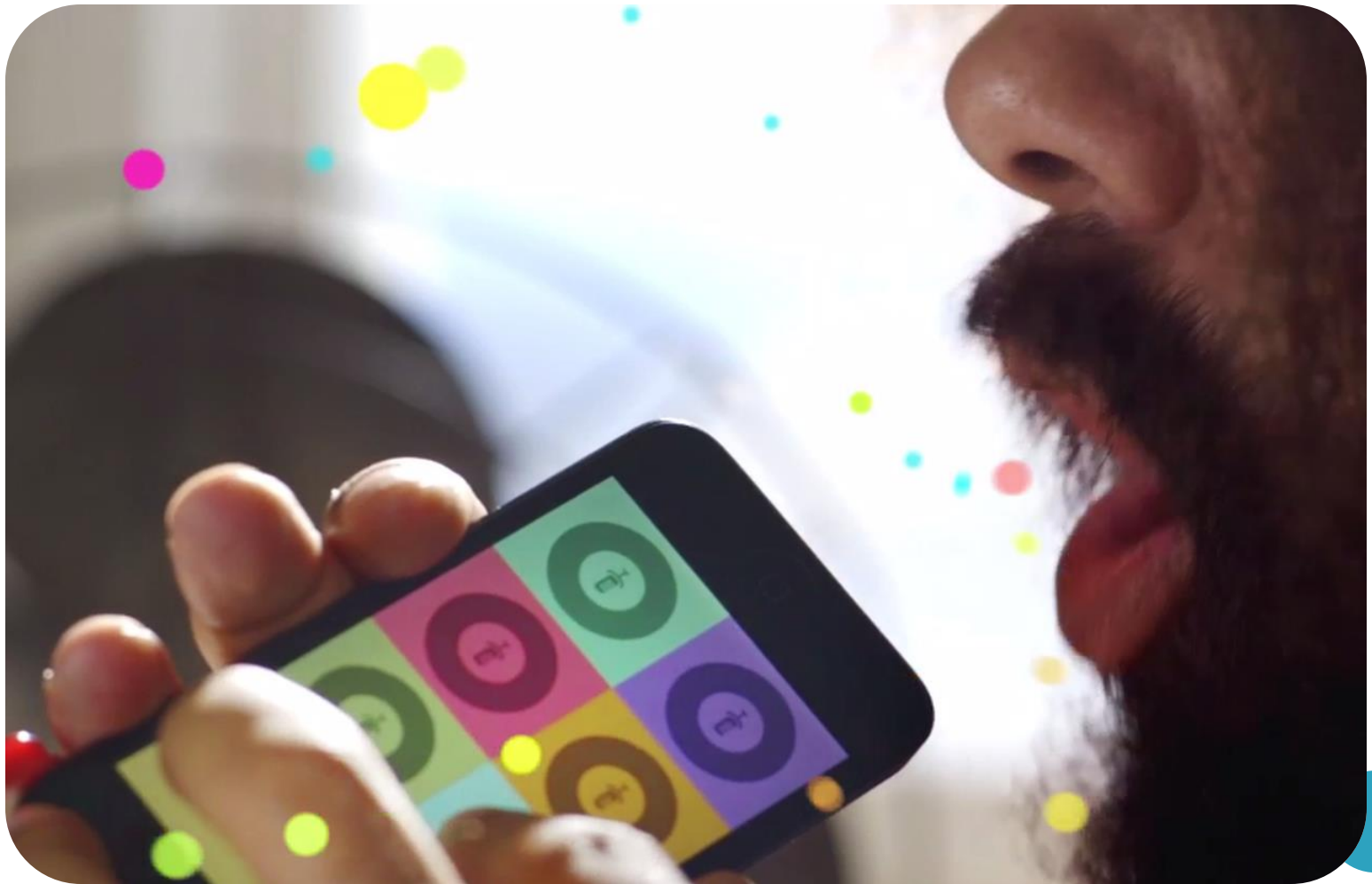
## **Keezy(free)**

- Recording voice or instruments
- Sampling (8 sounds)

## **Keezy drummer**

- Sequencing percussion/ drum sounds
- 8 x 6 sounds/ drum parts

# IT'S EASY WITH *KEEZY*

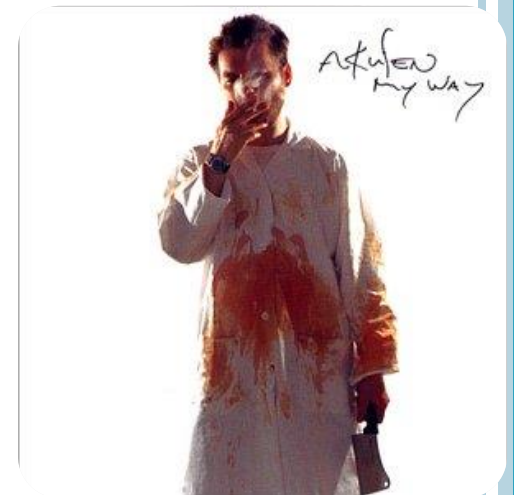


# SAMPLING – EXAMPLES (LINKS TO APPLICATIONS)

- **Other applications: detailed presentation of the following in Cyprus**
  - <http://www.patatap.com/> (Introduction to online basic sampling practices with A/V background).
  - <https://www.mixthecity.com> (Online sampling from different countries by **Kutiman**)
- **YouTube** – sampling artist Akufen
  - Deck the House (2002) - <https://www.youtube.com/watch?v=w7nNF0FJ3-I>

## Info

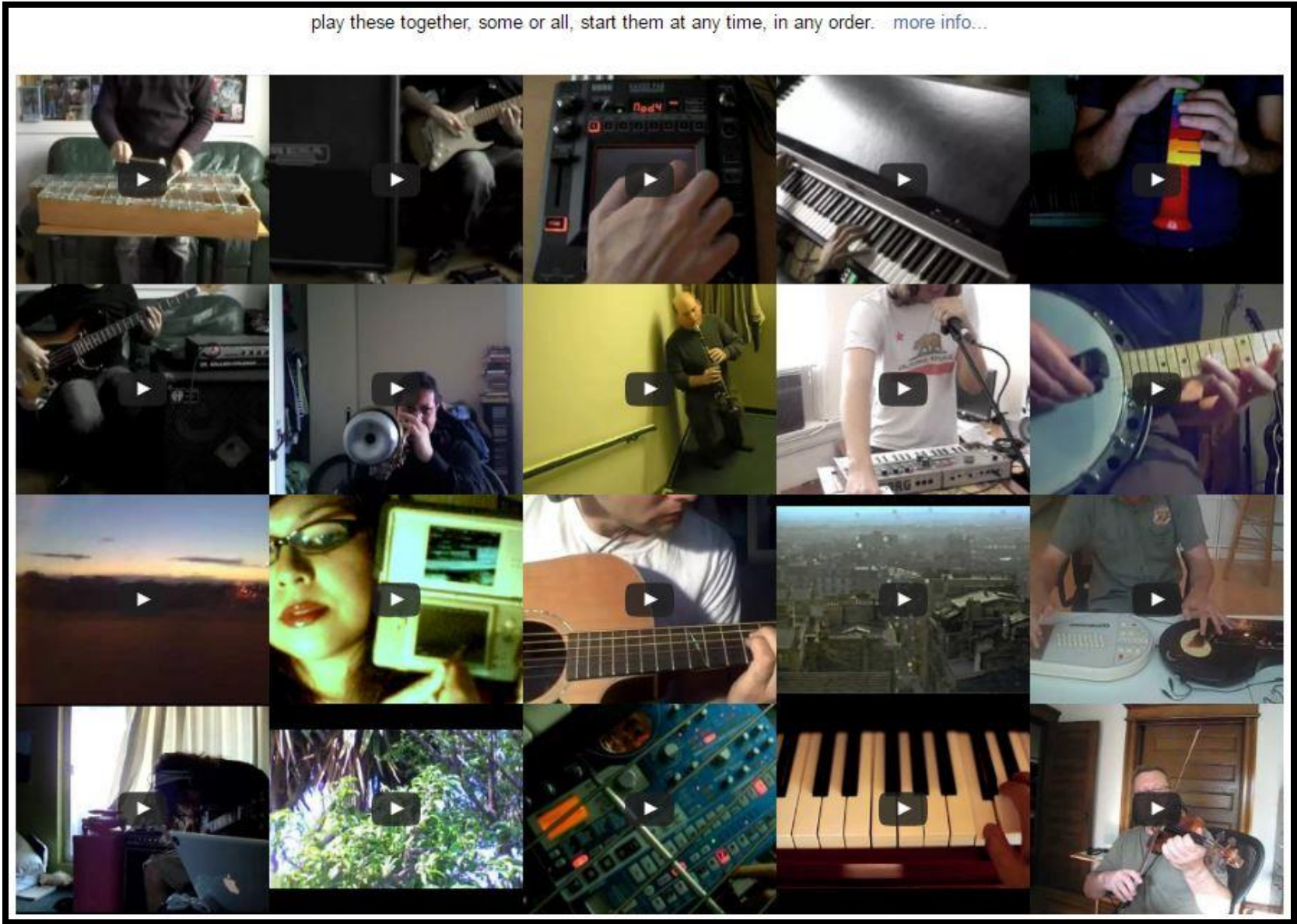
- Album *My way* by Akufen
- Released in 2002
- Made of 2000 radio samples
- **Pic** → album cover. What are the extensions?





# INBFLAT.NET → HOW DOES IT WORK?

play these together, some or all, start them at any time, in any order. [more info...](#)



# INBFLAT.NET → DESCRIPTION

play these together, some or all, start them at any time, in any order. [more info...](#)

**In Bb 2.0** is a collaborative music and spoken word project conceived by Darren Solomon ([website](#) / [twitter](#)) and developed with contributions from users.

The videos can be played simultaneously -- the soundtracks will work together.

## How can we use this idea?



# IN E SHARP: WHY THIS NAME?

- **Music theory:**

- International music alphabet: **A - B - C - D - E - F - G**

La Si Do Re Mi Fa Sol

- Accidentals/ Alterations:

- **How does it relate to our programme?**

Sharp Sign



Flat Sign



# A/V PLATFORM MATERIAL - HOW TO ACHIEVE THIS

## Things to do:

- **Music:**
  - Record traditional music[s] from each country, solo or group instruments
  - All recordings must be in the **Key of E sharp = F**. Do not specify major (happy) or minor (sad) keys. Avoid using the 3<sup>rd</sup> note of the scale (*Ab/ A*)
- **Speech:**
  - 7 different countries will create a multi-lingual *spoken-word* project (Cyprus could use different accent on Greece)
  - This could be based on interviews of students on their exchange experiences? They could comment on the folk music of their country.
- **Visual:**
  - Video-record important places/ countryside from each country



**WHEN?!**



→ Upload all the material (videos) **BEFORE** the trip to Greece!



# REMEMBER...



**NO  
EXPERIENCE  
REQUIRED**



**...AND REMEMBER!**



**THANK YOU FOR YOUR ATTENTION!**

