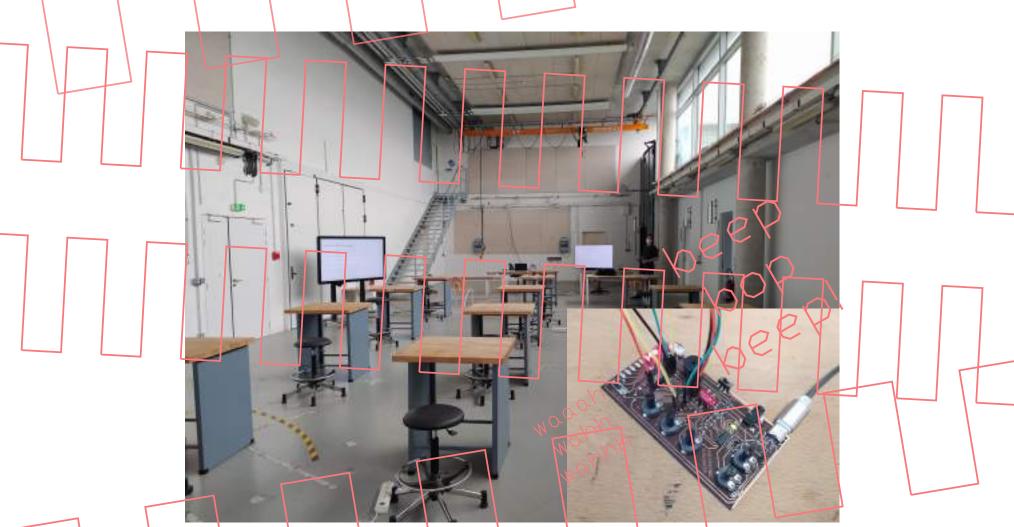




### Free Synthesizer Workshops @ Fablab Digiscope | LISN

~November + December 2021~

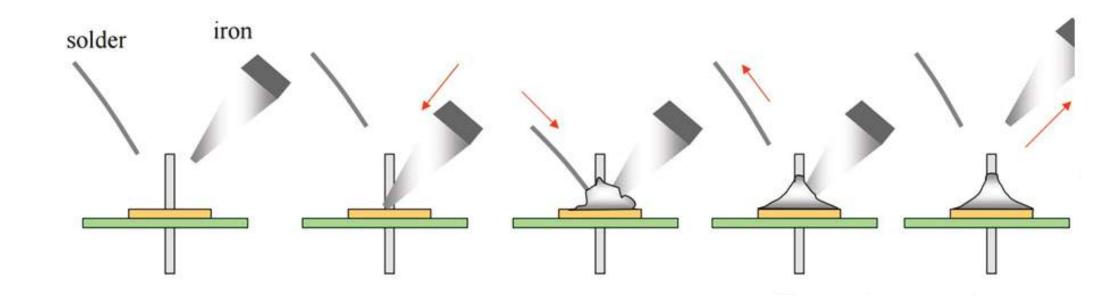


## SAFETY

## THIS BOARD IS EXPERIMENTAL

-TT IS UNINSULATED -IT CHUID DAMAGE YHUR PC -YIII SHOUID NOT I FAVE IT PIUGGED IN UNATTENDED -RISK OF FPH FPTIC SFIZURFS

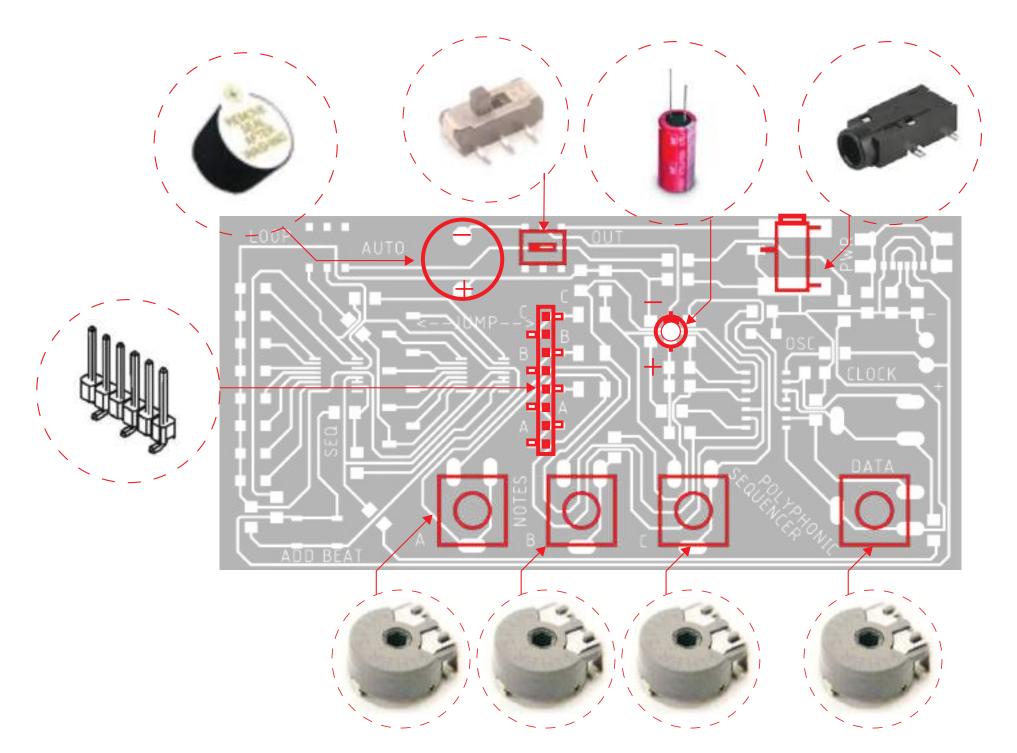
#### COMMENT SOUDER

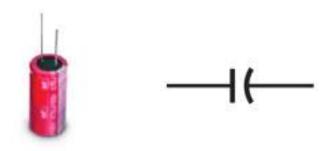


IT GETS HOT!

WASH YOUR HANDS BEFORE
YOU EAT
(LEAD IN THE SOLDER)

### ASSEMBLY





#### CAPACITOR

STORES ELECTRICAL ENERGY
HI FREQ PASSES WHILE LOW FREQ BLOCKED





#### POTENTIOMETER

A VARIABLE RESISTOR
CONTROLS VOLUME IN YOUR STEREO

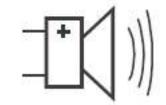




#### SWITCH

ALLOWS US TO CONNECT / DISCONNECT BETWEEN TWO OPTIONS LIKE AM / FM ON A RADIO

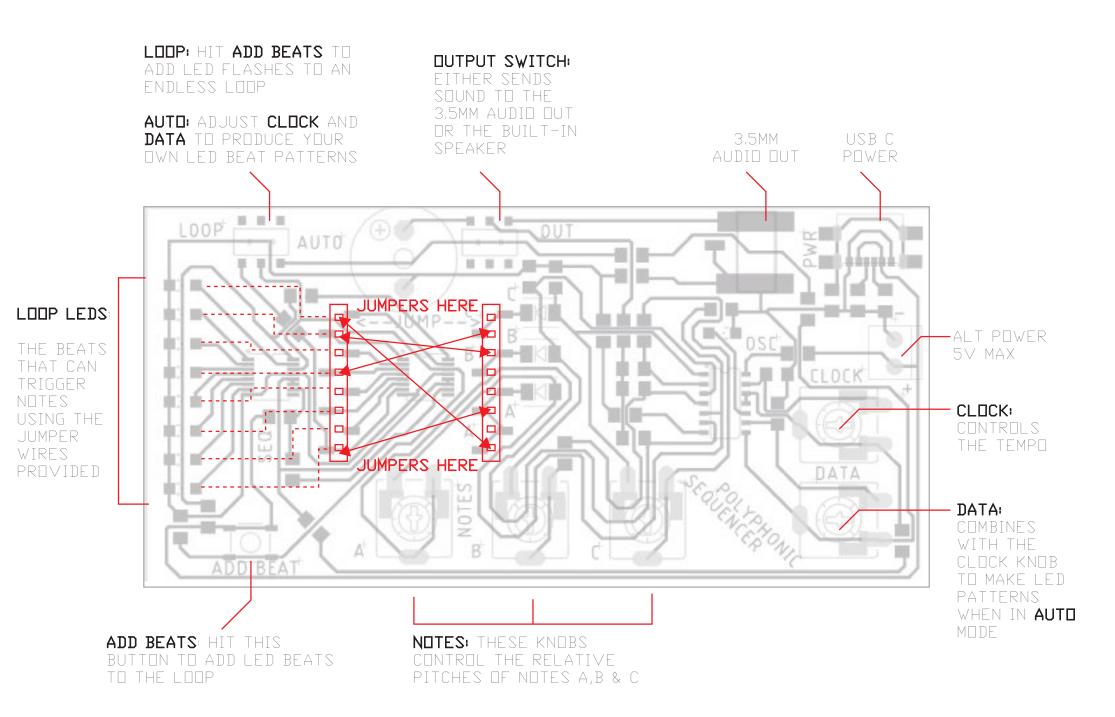




#### PIEZO BUZZER

A MINI SPEAKER THAT VIBRATES TO CREATE SOUND

#### OPERATION



### RESEARCH



# HACKADAY

HOME

BLOG

HACKADAY.IO

TINDIE

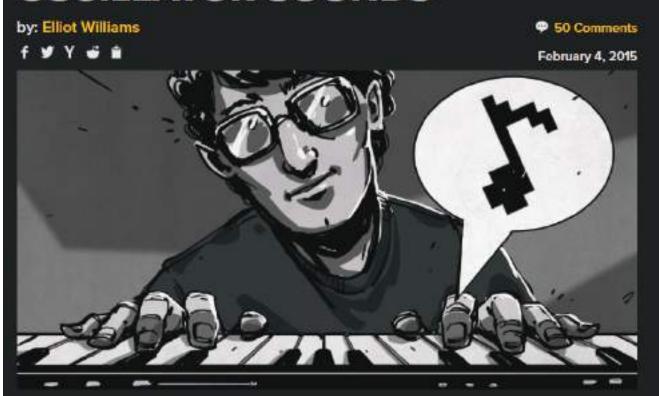
HACKADAY PRIZE

SUBMIT

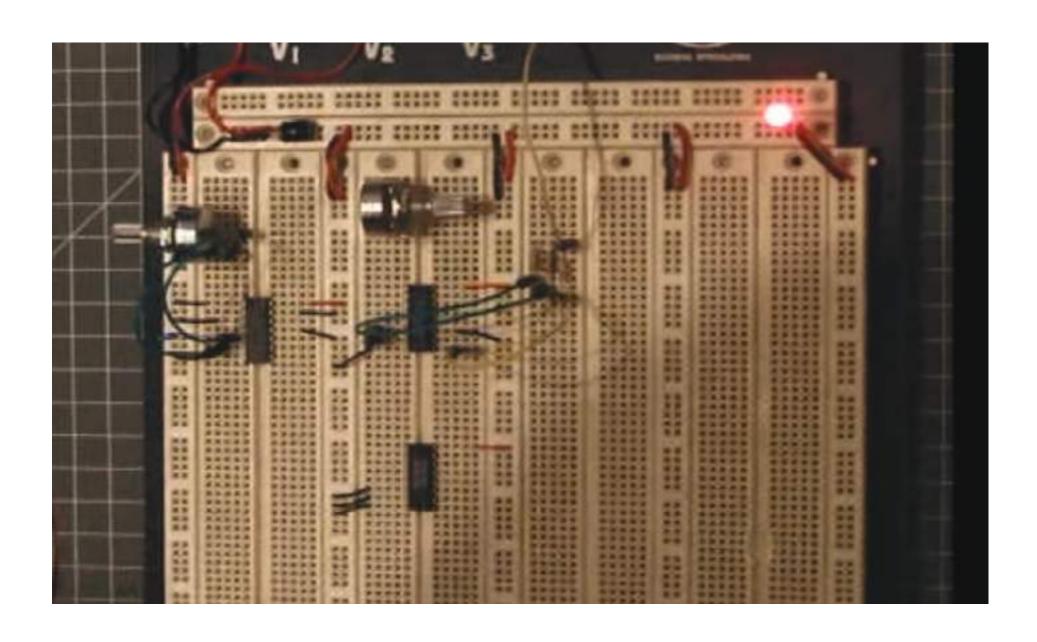
ABOUT

November 5, 2021

# LOGIC NOISE: SWEET, SWEET OSCILLATOR SOUNDS



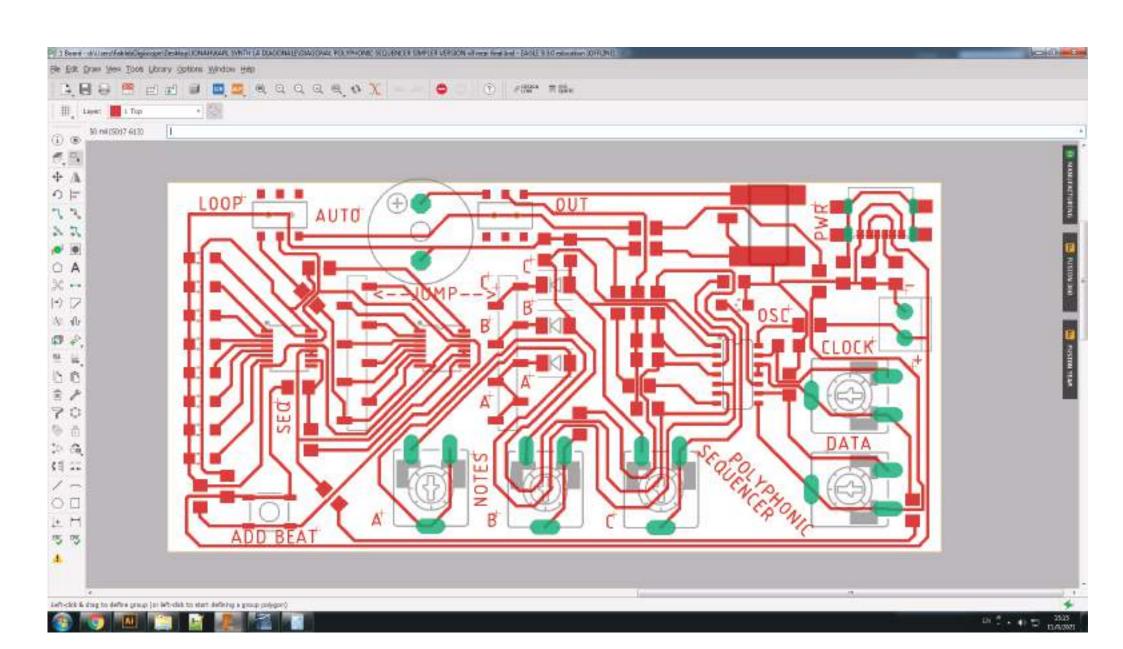
### PROTOTYPING



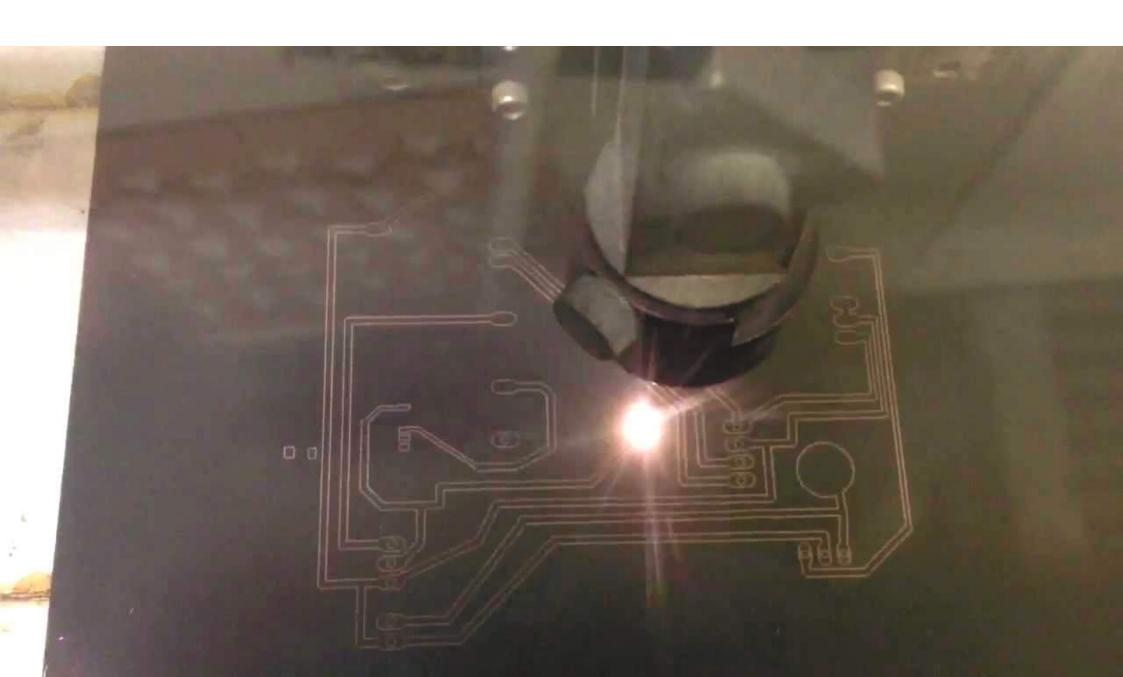
# SOURCING

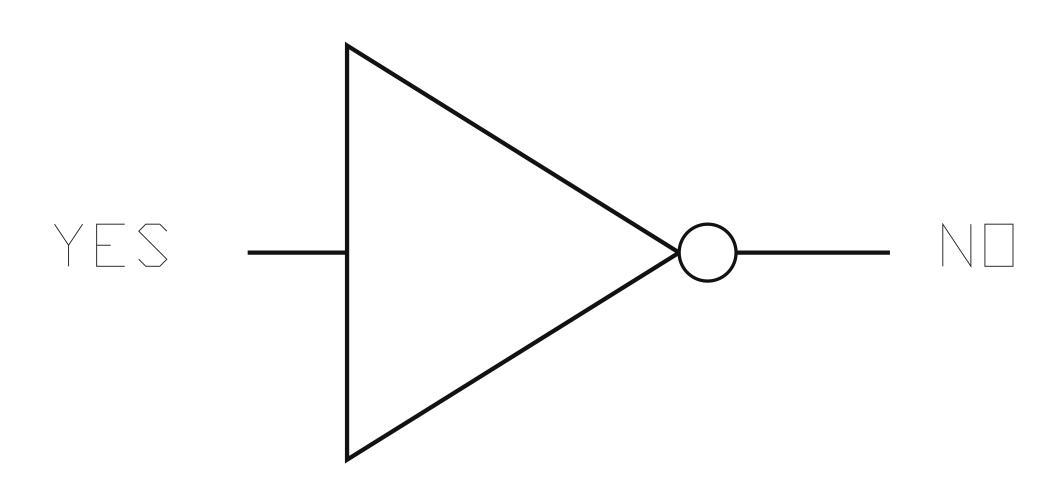
1 - 37 c	of 27							Checkout	
Sort	Product D	Petail		Description	Quantity	Availability	Unit Price (EUR)	Ext. Price (EUR)	•
10	•	Mir. No: Mir.: Customer No:	OR1206-FX-6101ELF Bourns	SMD 5 1K 1% RoHS Compliant By Exemption QuickView 2	80	80 Dispatches New	0,061 €	4,88 €	ũ
			Customer No.		Packaging: **Cut Tape				
11	•	Mouser No: Mfr. No: Mfr.: Customer No:	485-1201 1201 Assifuit	Adafruit Accessories Vibrating Mini Motor Disc QuickView [2]	5	S Dispatches Now	1,65€	8,25€	Û
			Customer No		1.7%				
12	0	Mouser No: Mfr. No: Mfr.: Customer No:	119-17541 17541 Aven Customer No	Desoldering Braid / Solder Removal DESOLDRING WICK, 2MM RoHS Compliant QuickView Z	6	5 Dispatches Now	1,63€	8,15€	ō
13	<b>9</b>	Mouser No: Mfr. No: Mfr.: Customer No:	650-400R0111-22-9 400R0111-22-9 TE Connectivity Customer No	Hook-up Wire 400R0111-22-9 Price Per Foot RoHS Compliant QuickView @	50	50 Dispatches Now	0,091€	4,55€	Ò
14	₩ MI	Mouser No: Mfr. No: Mfr.: Customer No:	640-MEM20510019500A MEM2051-00-195-00-A Global Connector Technology (GCT)	Memory Card Connectors Micro SD Push Push, Open, SMT, 1,95mm profile, No Peg, T&R	6	6 Dispatches Now	1,02.€	6,12€	à
			Customer No	RoHS Compliant QuickView &					
		Mouser No: Mfr. No: Mfr.: Customer No:	710-860010572002 860010572002 Wurth Elektronik	Aluminium Electrolytic Capacitors - Radial Leaded WCAP-ATG8 10uF 35V 20% Radial RoHS Compliant	20	20 Dispetches Now	0,086 €	1,70 €	ō
15			Customer No:						

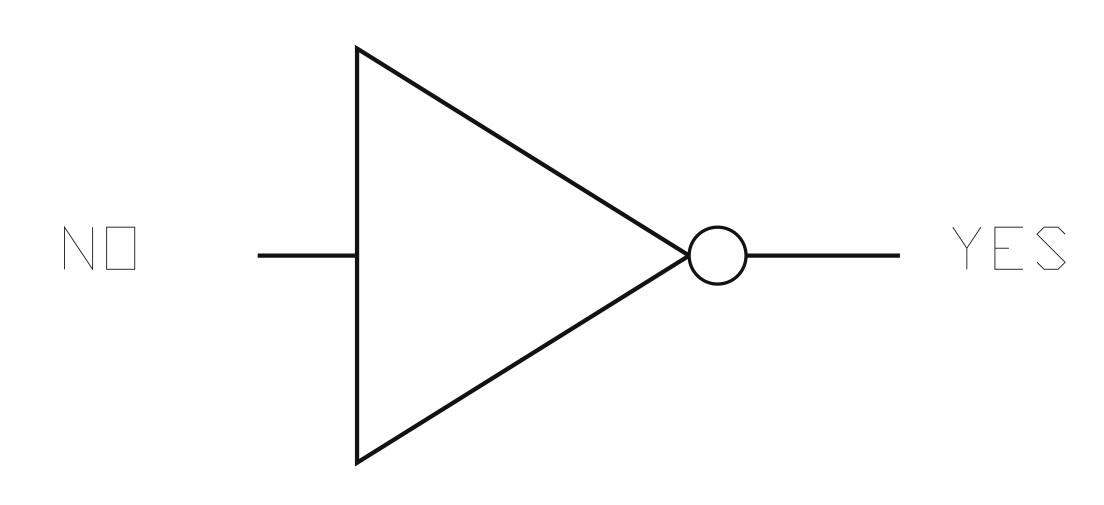
## DESIGN



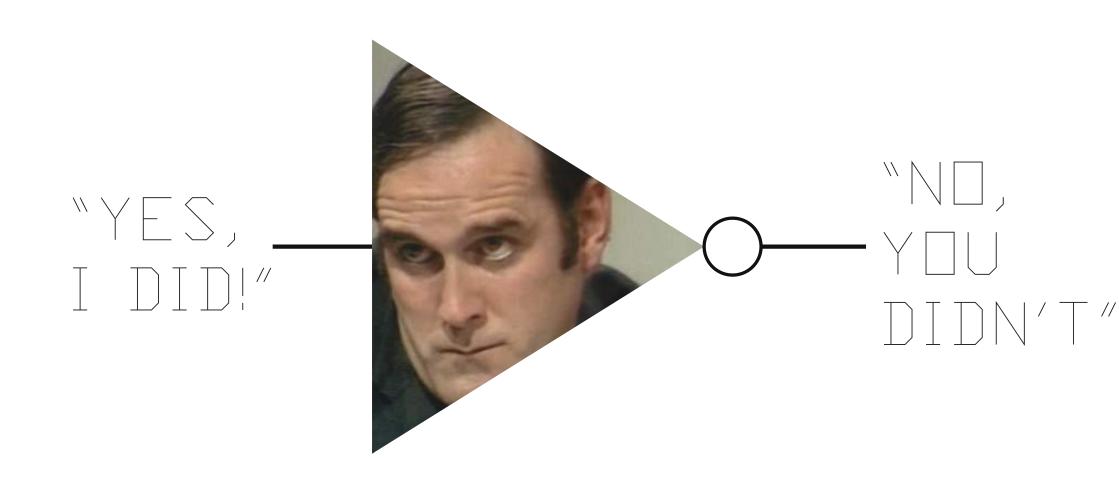
# PRDUCTION

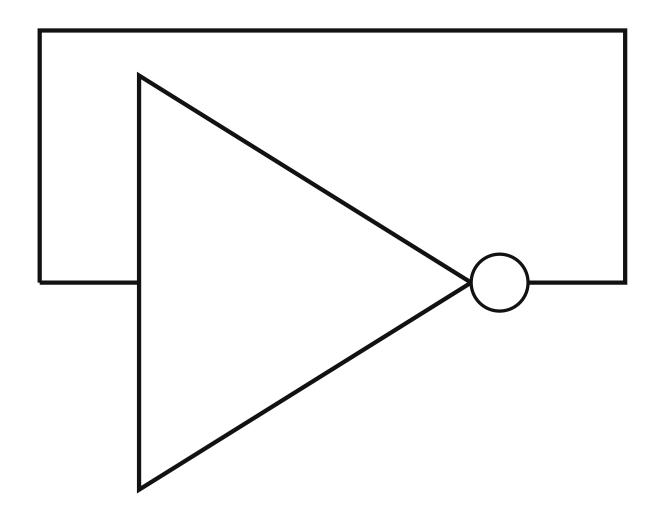


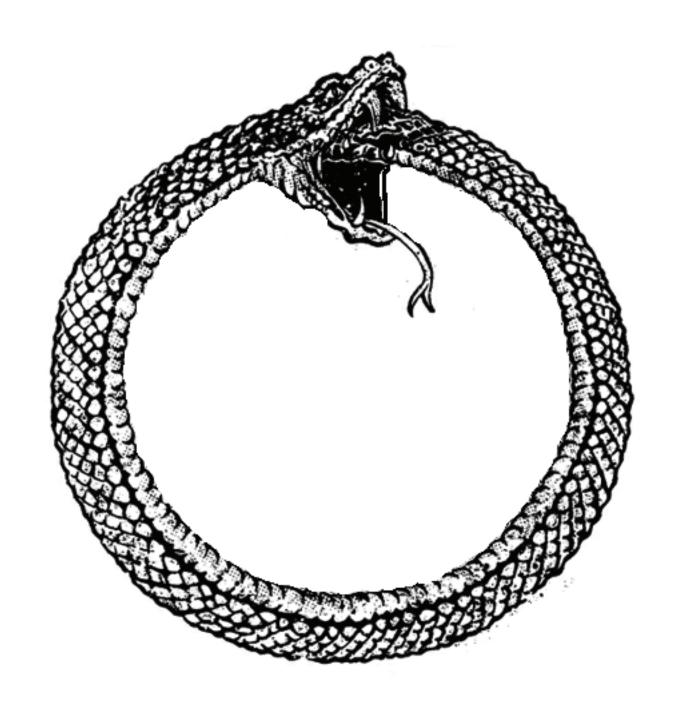


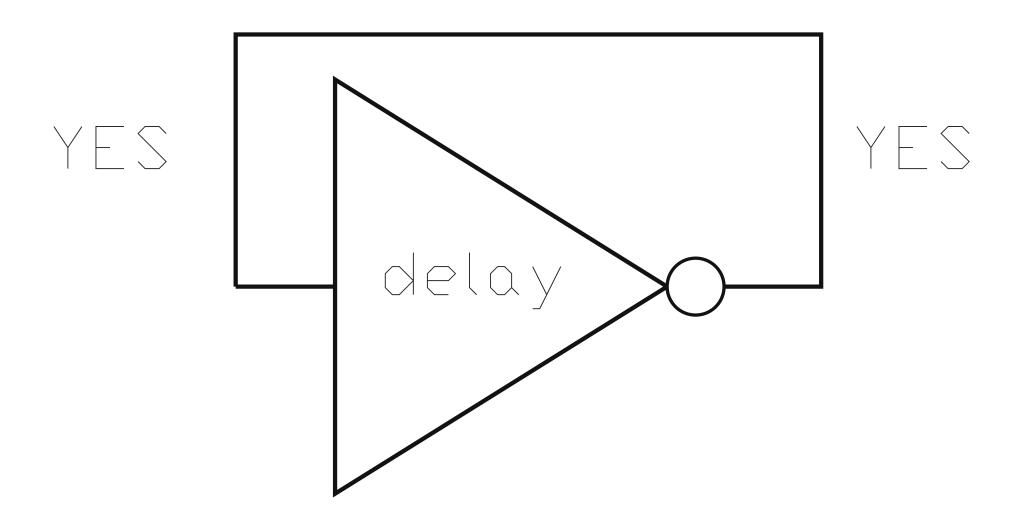


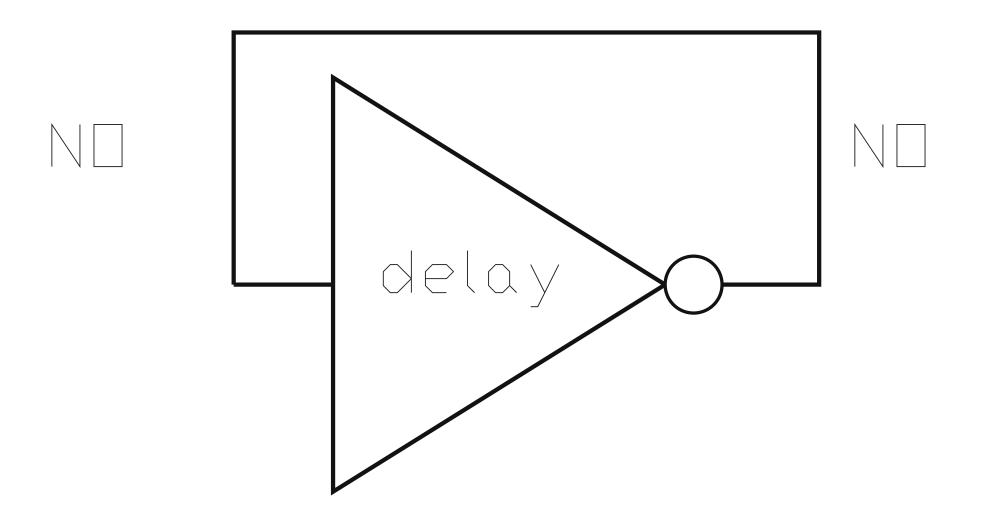
#### INVERTER

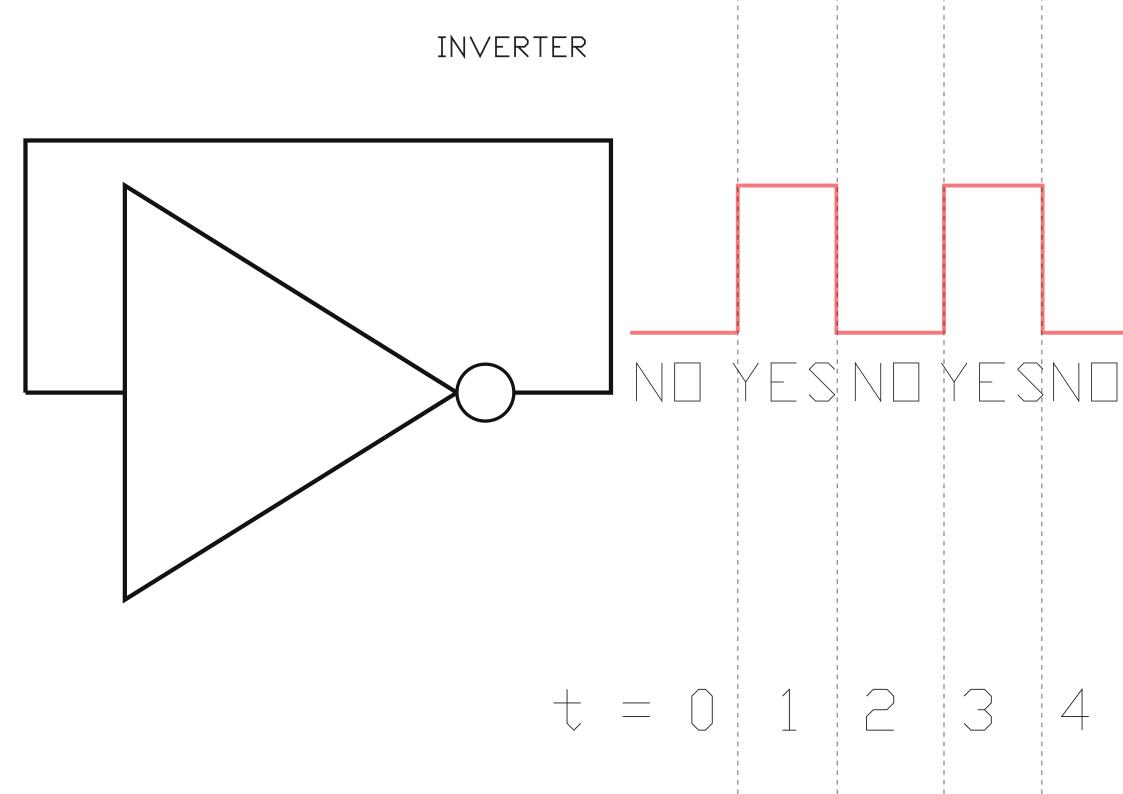


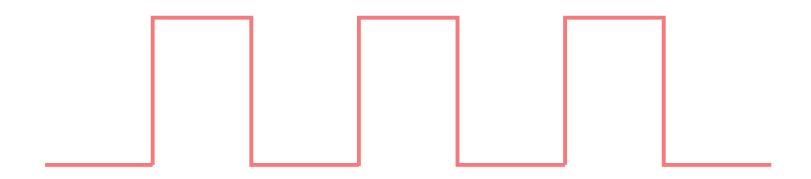




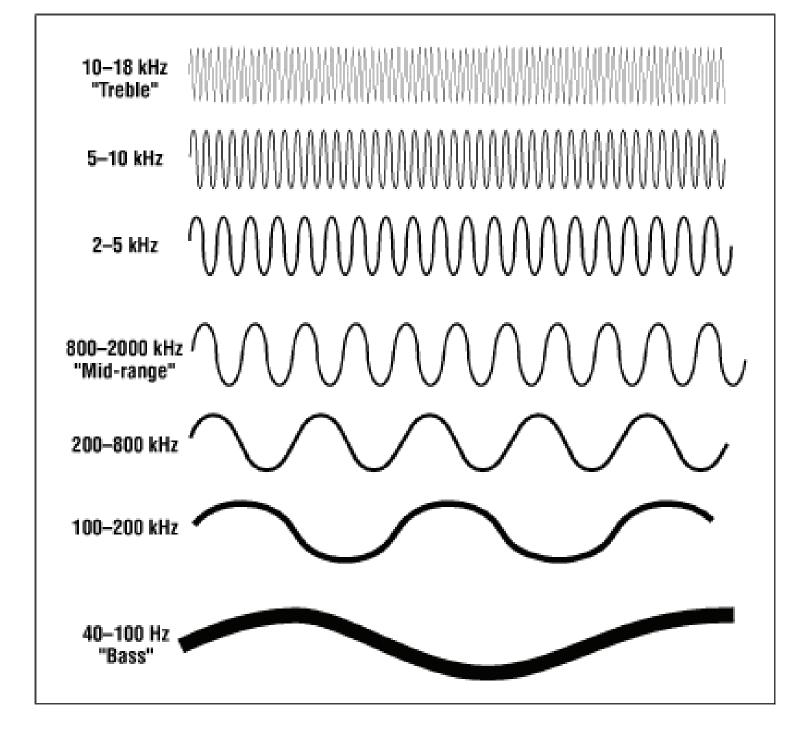




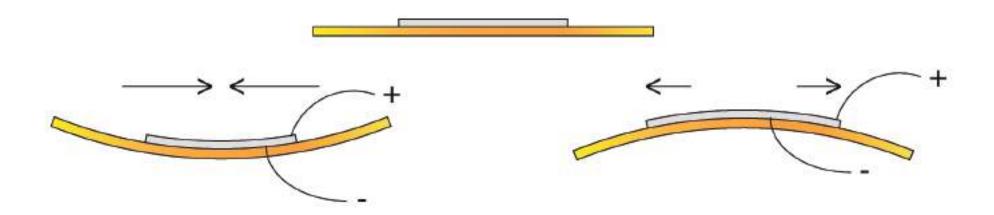


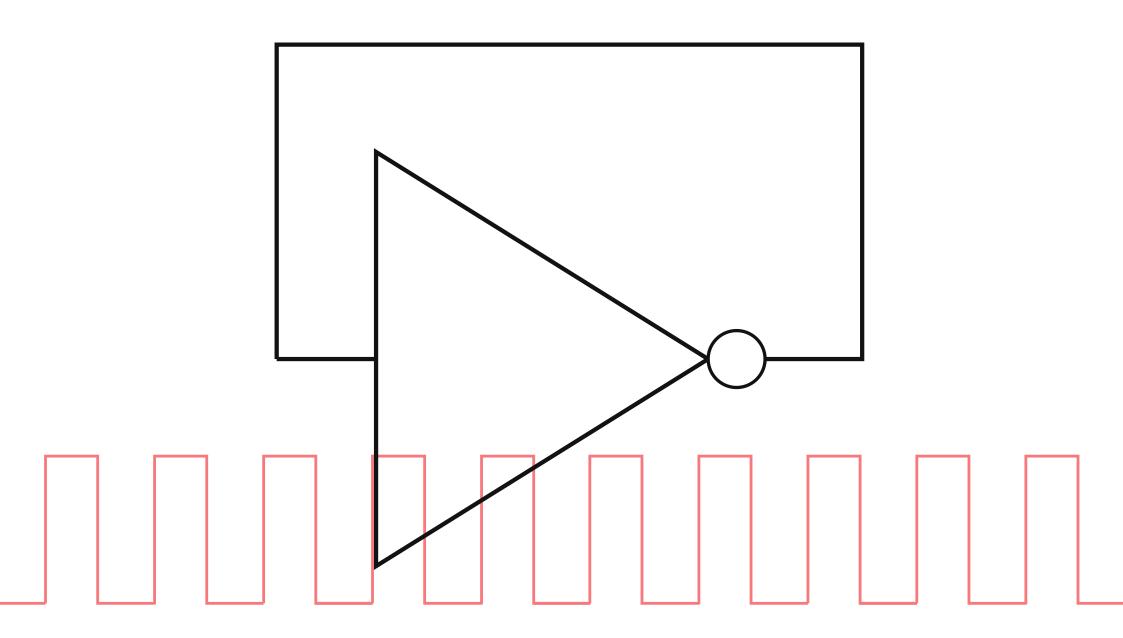


Sound Is Just Wiggly Air !



### PIEZO SPEAKER





SWAMP

