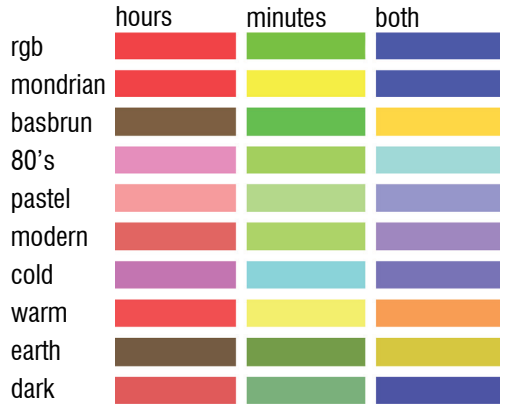
AVAILABLE OPTIONS

modes

clock : the colours indicate time
rainbow: ever changing miscalleneous colours
lava lamp : ever changing uniform colour

Palettes



HACK IT, IT'S OPEN !

The Base4 clock is driven by an Atmega328 micro -controller running Arduino. That means you can change the code running in the clock using the official Arduino IDE. The possibilities are infinite! I can't wait to see what you will come up with.

To make it easy to hack, I have included an FTDI connector so that you don't have to remove the chip to reprogram it. On top of that, a yellow LED has been connected to pin #13 to help you debug your application.

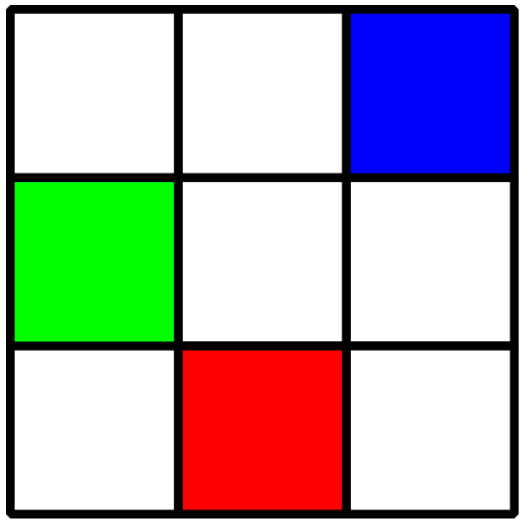
The Base4 Clock is an open source / hardware project. You can find the source and schematics at https://github.com/pchretien/base4.

GEEKOCLOCK

201-305 rue de Bellechasse
Montréal (Québec) H2S 1W9

www.geekoclock.com
(514) 574 8499

0 1 2 3 10 11 12 13 20
21 22 23 30 31 32 33
100 101 102 103 110
111 112 113 120 121
122 123 130 131 132
133 200 201 202 203
210 211 212 213 220
221 222 223 230 231
232 233 300 301 302
303 310 311 312 313
320 321 322 323 330



BASE4 CLOCK

WHAT'S IN THE BOX

- clock
- plug with cord
- rubber paddings
- sticker
- instruction manual

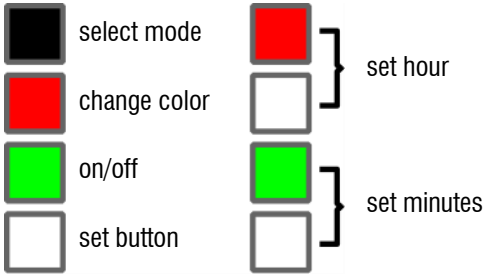
PEEL OFF FILM BEFORE USE

Don't forget to peel off the protective film from the plexiglass front cover!

STICK RUBBER PADDINGS

Stick the rubber paddings under the clock wooden frame

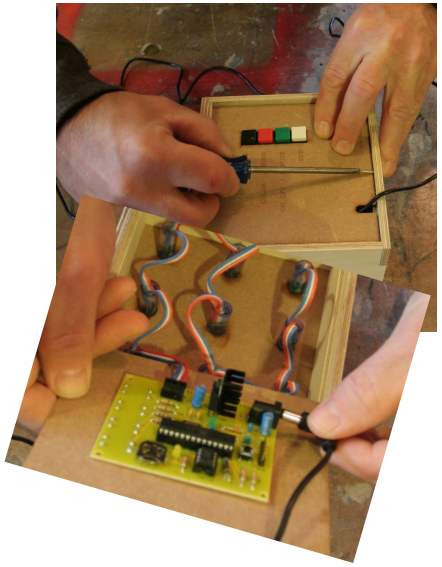
BASE4 CLOCK BUTTONS



HOW TO CONNECT THE POWER CORD

The clock has to be powered by the 6V 800mA power adapter enclosed in your package. To connect the power cord to your clock you first have to remove the back panel.

To do so, simply remove the screw at the bottom and pull out the panel. Then connect the power adapter to the circuit board (as shown on picture) and then replace the back cover.



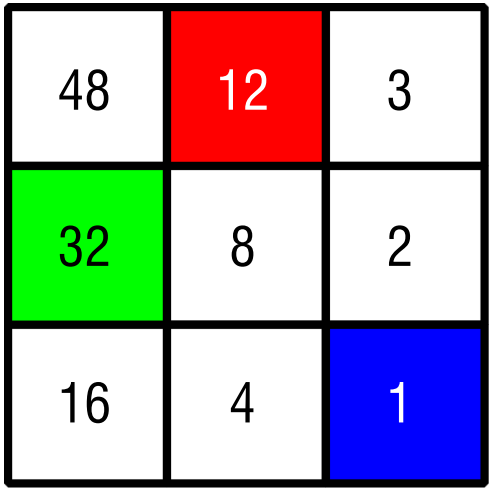
HOW TO TELL TIME

The time on the base4 clock is based on 24 hours clock, or, "military time" in the US.

The base4 numeral system uses numbers from 0 to 3 instead of 0 to 9 with the decimal system.

Each column of the clock represent a digit in base4. The lines represent values 1, 2 and 3 starting from the bottom.

With 3 digits you can count up to 63 which if perfect to display time. Since base4 is not that simple to use you can simply add-up the values represented by the squares to read time.



to determine hour add and

to determine minutes add and

In this example

hours = 12 + 1 = 13h

minutes = 32 + 1 = 33m

it's 13:33h

HOW TO SET THE TIME

You set time by holding the white button and clicking on the red or green buttons.

the hours Hold the white button and click on the red button. Every click on the red button increase the hour by one hour.

the minutes Hold the white button and click the green button. Every click on the green button will increase the minutes by one minute.

midnight All squares are white at 00:00h