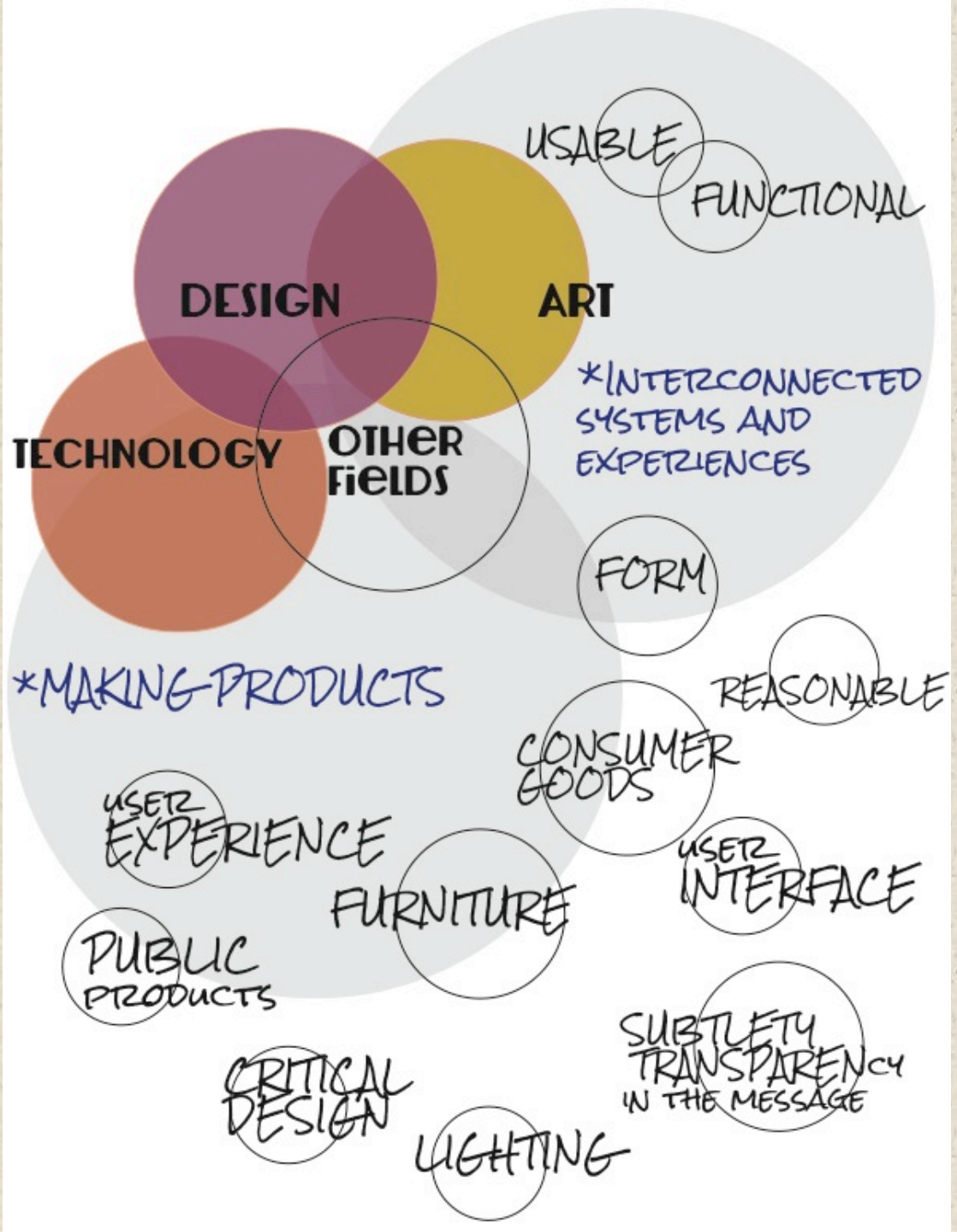
A small scale projection clock

STARRY DAYS

Carol Kozak

Areas of Interest



Function and form

PRECEDENTS & RESEARCH

12 14

PROBLEM:

These clocks are confusing and hard to understand and overly complicated.

Christmas lights hung on the town clock in Tredegar, UK

INSPIRATION

AUDIENCE

People looking for a more organic and relaxing wall clock without big numbers and the tick-tock sound.

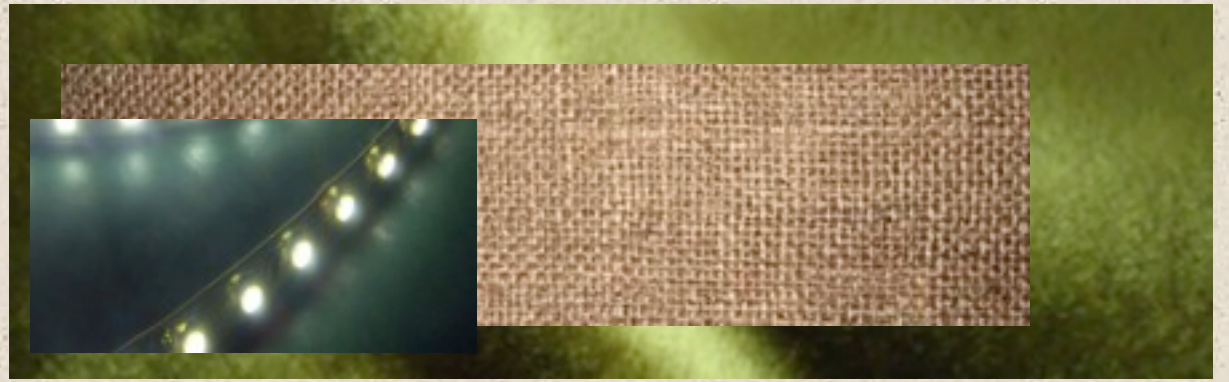
People who want ambient light at night (a night light) – maybe in the hall that leads to a bathroom or the kitchen. When they get up in the middle of the night they can go to the bathroom or kitchen without turning on too many (or any) additional lights. It is also a nice way to see the time when you get up in the middle of night.

People who wake up before the sun rises and want to not disturb another sleeping person. They can use the ambient light to walk down the hallway.

People who set their clocks forward so they are not late.

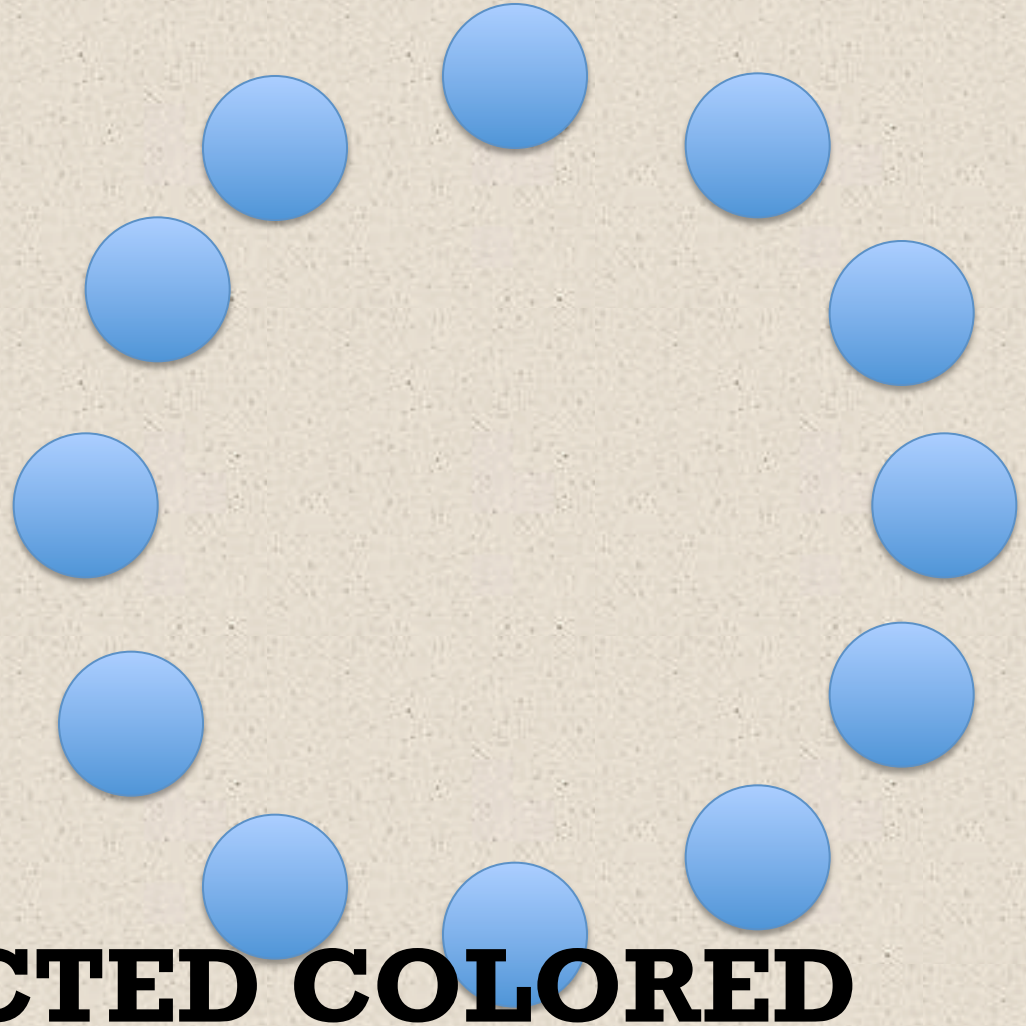
People who enjoy posters, art and photographs on their wall.

PROCESS & PROTOTYPES



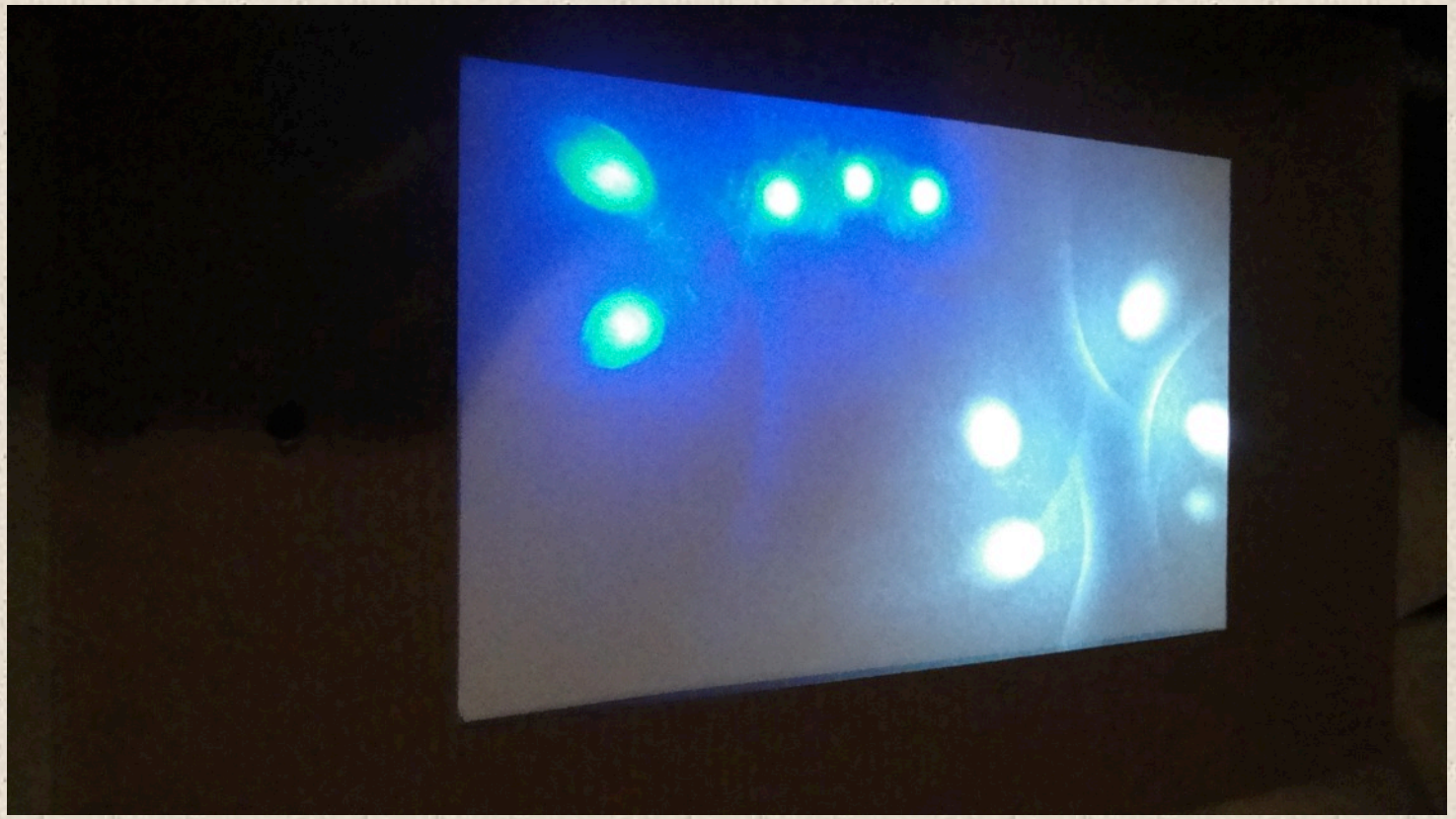
Brightens an LED every hour.

WEARABLE



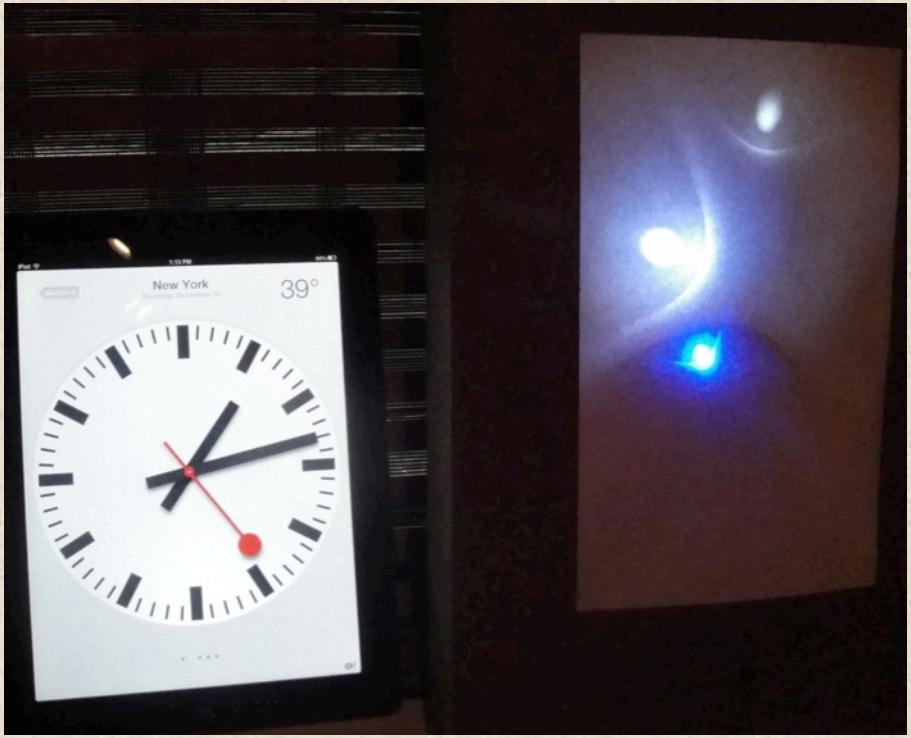
12 lights for hours

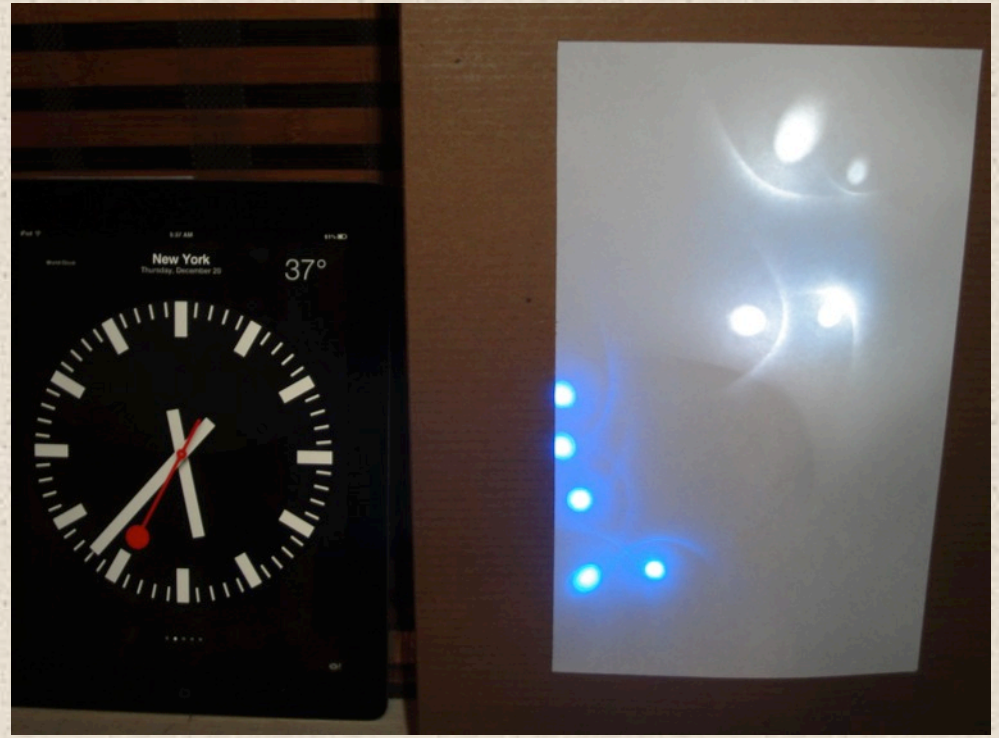
12 PROJECTED COLORED CIRCLES ON THE WALL



12 lights for hours and lights for minutes

BLUE LIGHTS FOR HOURS AND WHITE LIGHTS FOR MINUTES IN INCREMENTS OF 10





What I learned:

A lot about components:

Reel LEDs require transistors to program.

Shift registers give you extra pins.

Buy more than you think you need!

17 LEDs makes for a lot of tangled wires so stay organized. Also when controlling the lights with the clock it is important to stay very organized in your code.

In future iterations:

I would further user test the clock to see what arrangement of lights is the best.

I would work more with the minutes flashing when the button is pressed.

And I would like to try the large projection clock again.

Thank you!

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