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Weather - Abstract representation - Process

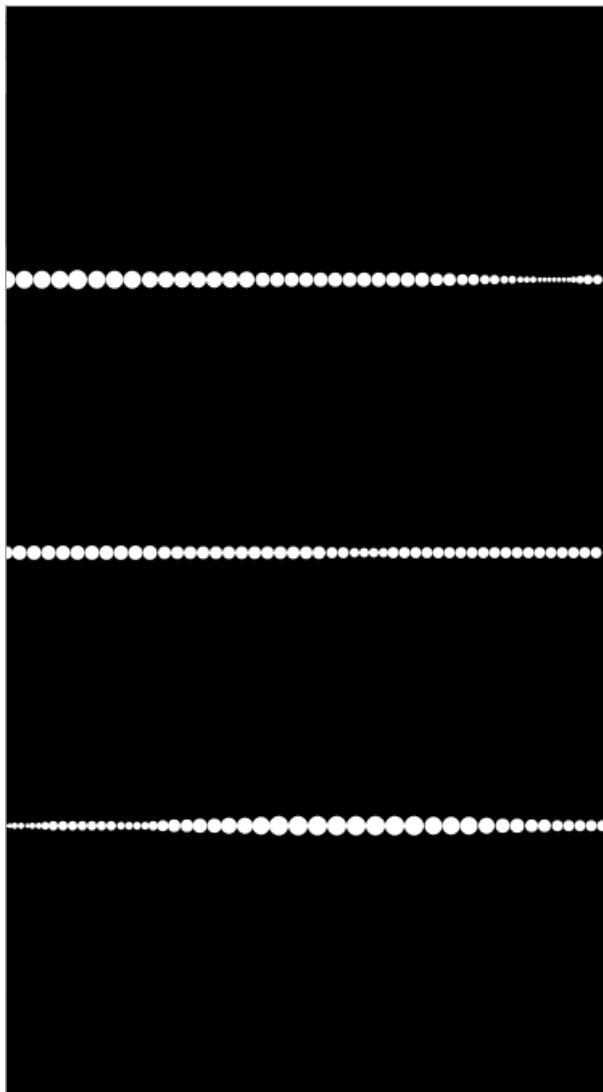
The abstract representation was the second one I've worked on.
Since my literal representation was mostly greyscale and had no movement in it, I wanted the abstract one to be colourful and kinetic.

My initial ideas included:

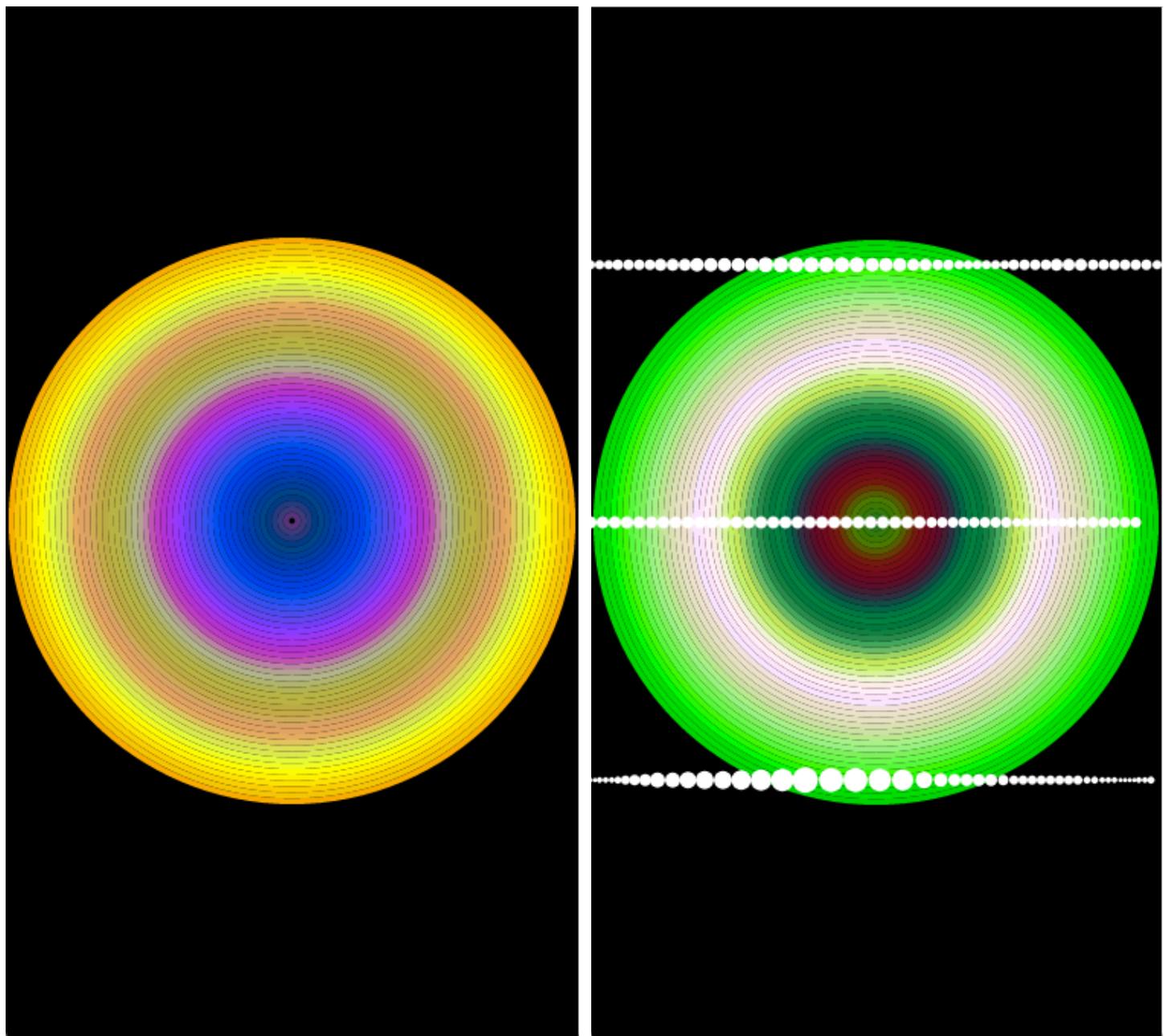
- a representation for only specific values - (animations of snowflakes/rain according to the precipitation probability intensity and type , animations of clouds and landscape according to the cloud cover and visibility, etc.)
- Filling up the screen with text, taken from the summary for each hour / day
- different representation with circles, changing color or diameter according to different values.

I decided to move on with the circles idea.

I started with modifying Leslie's example of plotting the different hourly values to drawing circles with diameter size mapped to the sum value of each data array:



I then added more circle, this time, one inside the other, when the outer circle represents the current hour and the most inner one represents the 48th hour from now. each circle color was determined by the temperature, humidity and visibility values of that hour: (ran this with the saved weather forecast and the current one)



I then went back to my clocks took inspiration from the jumping balls clock I made (using sin waves).



I modified the Balls example from the P5.js website to fit my needs.
[\(http://p5js.org/examples/examples/Mobile_Shake_Ball_Bounce.php\)](http://p5js.org/examples/examples/Mobile_Shake_Ball_Bounce.php)

In my visualisation, each day is represented by a circle.

The circle diameter is set by the humidity value of that day.

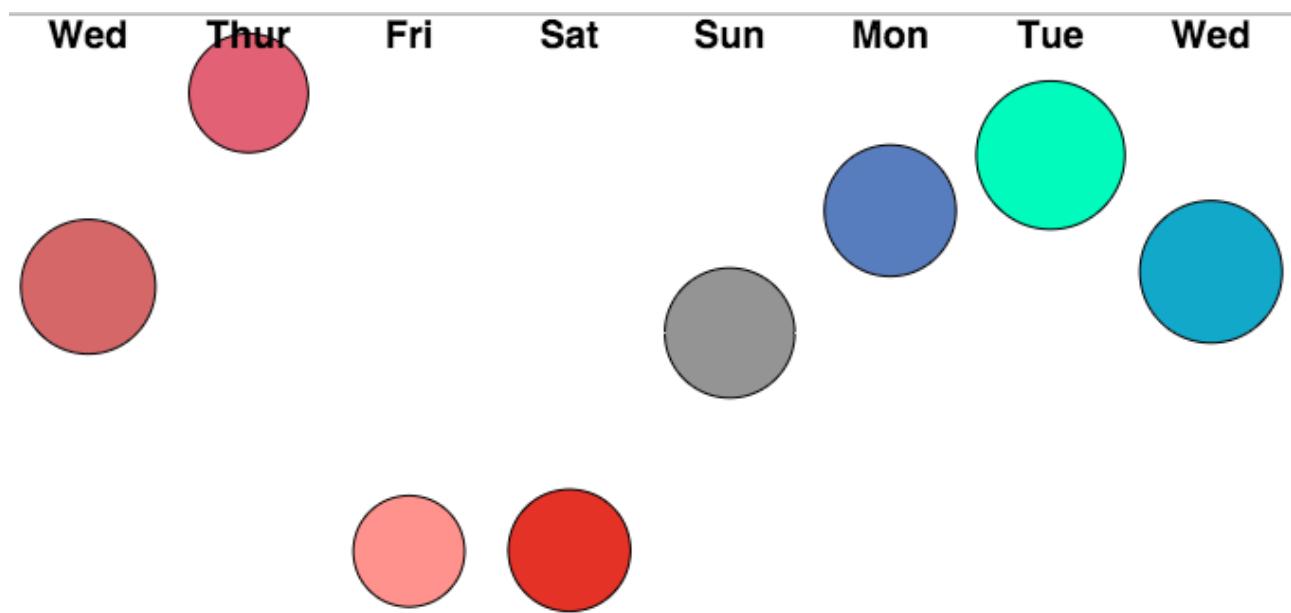
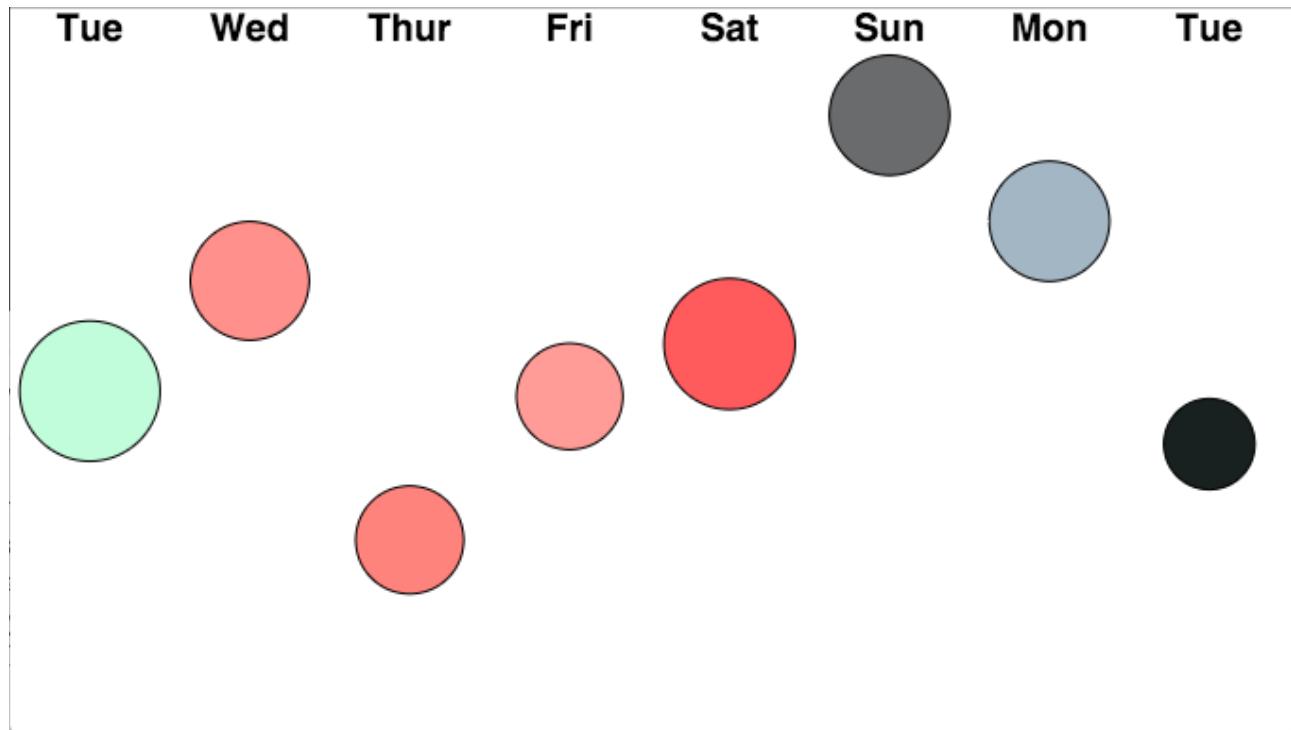
The circle ‘jumps’ between the min and max temperature values of that day (compared to all values of the week).

The jumping speed is the wind speed.

The blue value of the circle color is set by the precipitation probability, green by precipitation intensity and the red by visibility.

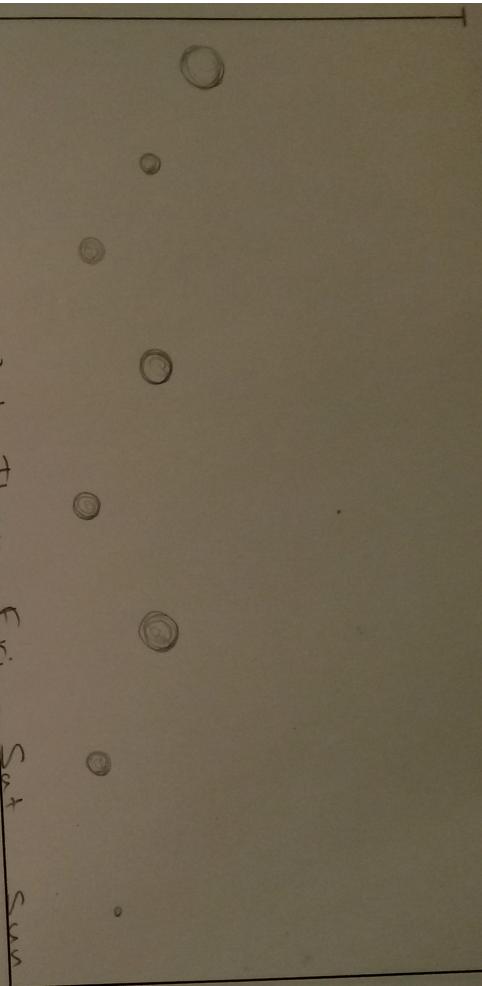
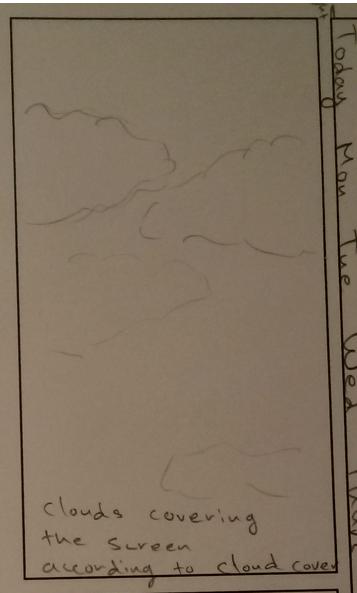
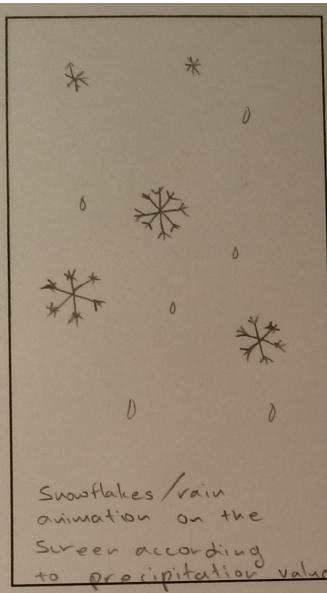
The opacity of each circle is the cloud cover in that day.

final result:



Pencil sketches:

Temp
 Visibility
 Humidity
 Precipitation
 Wind Speed



Mostly Cloudy
 Mostly cloudy
 Mostly cloudy
 Mostly cloudy
 Overcast
 Overcast
 Over cast
 Over cast
 Breezy and overcast
 Breezy and over cast
 (text of hourly /
 Daily summary
 filling out all page)

Today
 Tomorrow
 wed
 Thurs
 Fri

(Balls jumping Between max and min temp)

Balls jumping
 Between
 min and max
 Temp,
 color by humidity
 Between
 clouds space
 size by precipitation
 Probability
 Speed or jump
 by wind speed