

RoundTable

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Idea 1: Sunflower Growth Predictor

INPUT

10 day weather forecast

for user inputed location

OR

Arduino sensor input

PROCESSING

if cold→ deteriorate

If warm→ grow

If snow→ frozen

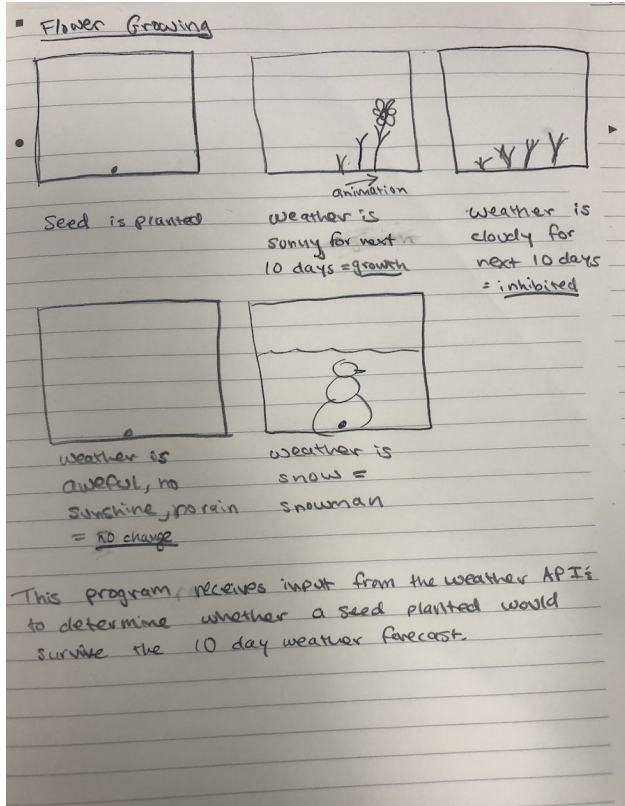
OUTPUT

animation of deterioration

animation of growth

animation of frozen

Idea 1: Sunflower Growth Predictor





Idea 1: Sunflower Growth Predictor

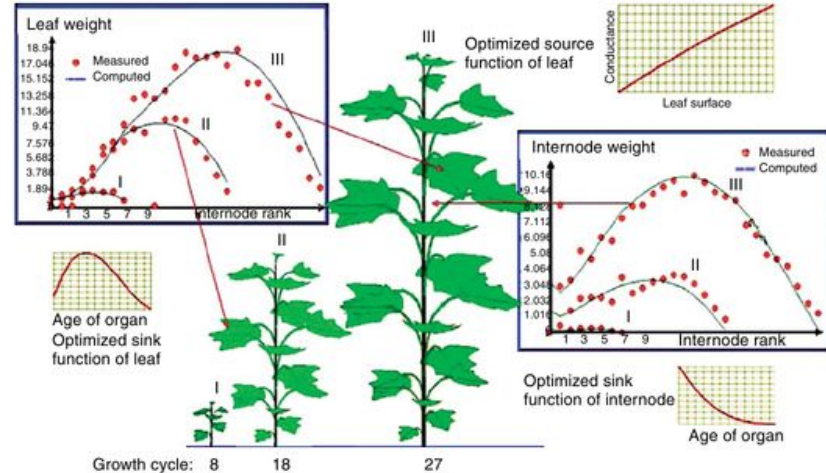
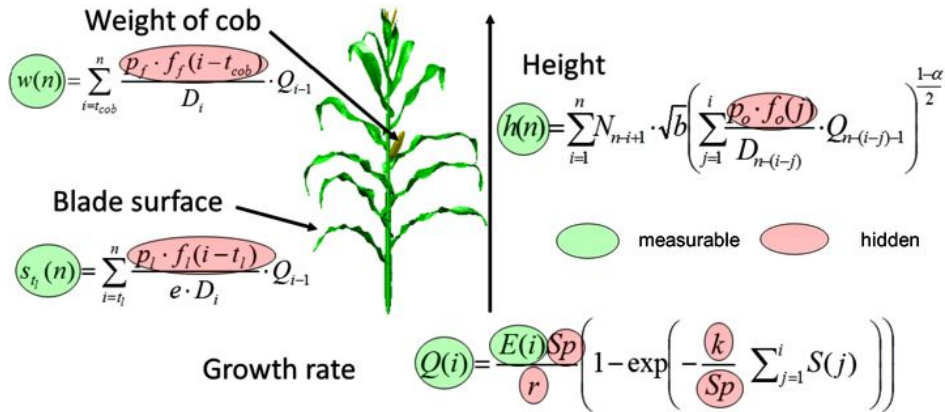
GET

10 Days of Daily Forecasts

Returns an array of daily forecasts for the next 10 days for a specific location. Forecast searches require a location key. Please use the Locations API to obtain the location key for your desired location. By default, a truncated version of the hourly forecast data is returned. The full object can be obtained by passing "details=true" into the url string.

Idea 1: Sunflower Growth Predictor

→ Plant Growth Models: to determine algorithms for plant growth prediction





Idea 1: Sunflower Growth Predictor

Visuals Inspiration: <https://codepen.io/romainparadis/pen/rrgkar>



IDEA 2: PI MEMORIZER

INPUT:

User clicks color on screen

PROCESSING:

User's input is compared to the
pi sounded

OUTPUT:

Color shines + number of

*If user input correct sequence of
colors, new color/pi sound is added
to sequence.

*If user inputs wrong sequence,
sequence starts from beginning.

IDEA 2: PI MEMORIZER

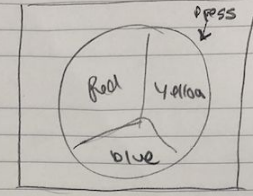
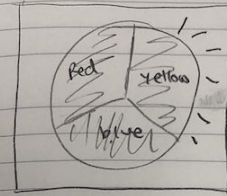
Real Life:

<https://www.youtube.com/watch?v=1Yqj76Q4jJ4>

Code inspiration for Game aspect:

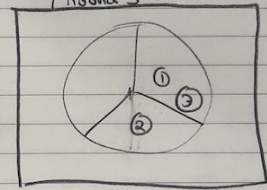
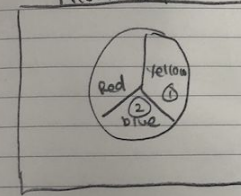
<https://codepen.io/BenLBlood/pen/LGLEoJ>

Language Memorizer



yellow randomly
flashes and lets
out a word in a
different language
Round 2

Player must
press yellow to
move on to next
round. If not, start again



New color randomly
flashes along w/
the colors before it;
yellow, blue

If player presses
the color in the
correct sequence, then
the colors flash again
w/ a new color at
the end, otherwise restart

*Each round is connected with a word in a
different language so the player starts to memorize



IDEA 2: PI MEMORIZER

Sound file for each number and use if statements to have sound of each number recited.
Code for sound files, but textbook might have more info:

<https://alvinalexander.com/java/java-audio-example-java-au-play-sound>



IDEA 3: FUTURE VISUALIZATION

INPUT:

User has 10 seconds to recycle

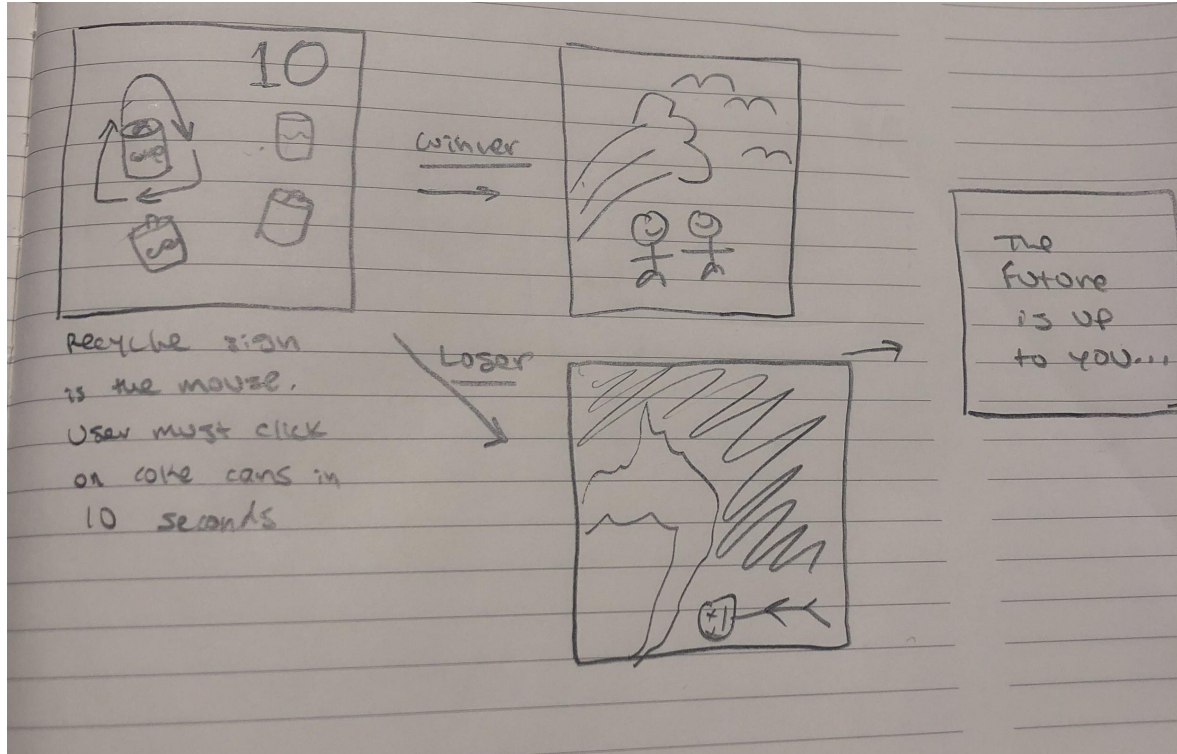
Output:

Loser: Dystopian abstract collage/exhibition that incorporates image, animation, sound

Winner: utopian exhibition

Both followed by “the future is up to you...”

IDEA 3: FUTURE VISUALIZATION





IDEA 3: FUTURE VISUALIZATION

Game Aspect; clicks → points:

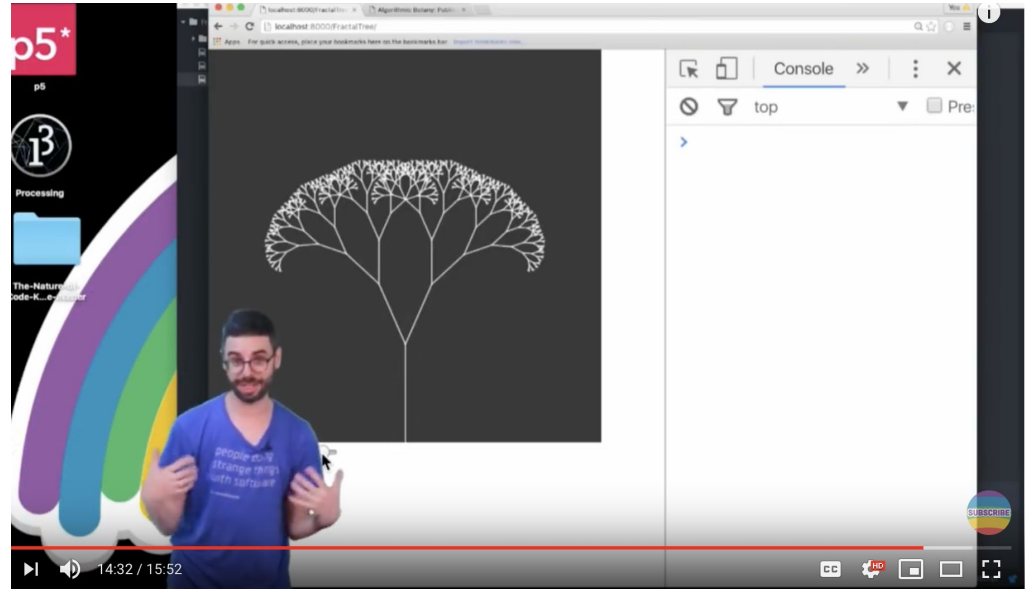
<https://medium.com/@kellylougheed/make-your-first-game-with-p5-js-38bfb308a671>



IDEA 3: FUTURE VISUALIZATION

Utopian/Dystopian Future

<https://www.youtube.com/watch?v=0jjeOYMimDU>



Challenge #14: Fractal Trees - Recursive