



# welcome!

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Cape Online Workshop 2021

## Co-designing with Plants

# Today's plan

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Cape Online Workshop 2021

# Today's Program

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## Welcome

**13:00 - 13:45**



- 01 - Welcome Words
- 02 - Chiba University Presentation
- 03 - Yonsei University Presentation
- 04 - Zhejiang University Presentation
- 05 - Schedule Revision
- 06 - Objectives & Approach
- 07 - Official information
- 08 - Contact

# Today's Program

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## Break

01 - Break Time 15 Minutes

## Lecture 1

14:00-15:00

- 01 - Professor Nagase Ayako Presentation
- 02 - Q&A
- 03 - Team Formation
- 04 - Breaking groups Teams

# Today's Program

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## Break

01 - Break Time 15 Minutes

## Lecture 2 15:15-16:40

- 01 - Generative Design with machine Learning
- 02 - Q&A
- 03 - Emotion Communication
- 04 - Teams discussion
- 05 - Repository Explanation

Let's introduce  
Ourselves



# chiba University



Introduce your University

# Yonsei University



Introduce your University

# Zhejiang University



Introduce your University

Workshop Objectives

Expected Goals

# Design Approach





Modern AI and machine learning generative models represent an exiting opportunity for designers to conceptualize and explore the generation of new communication tools and applications.



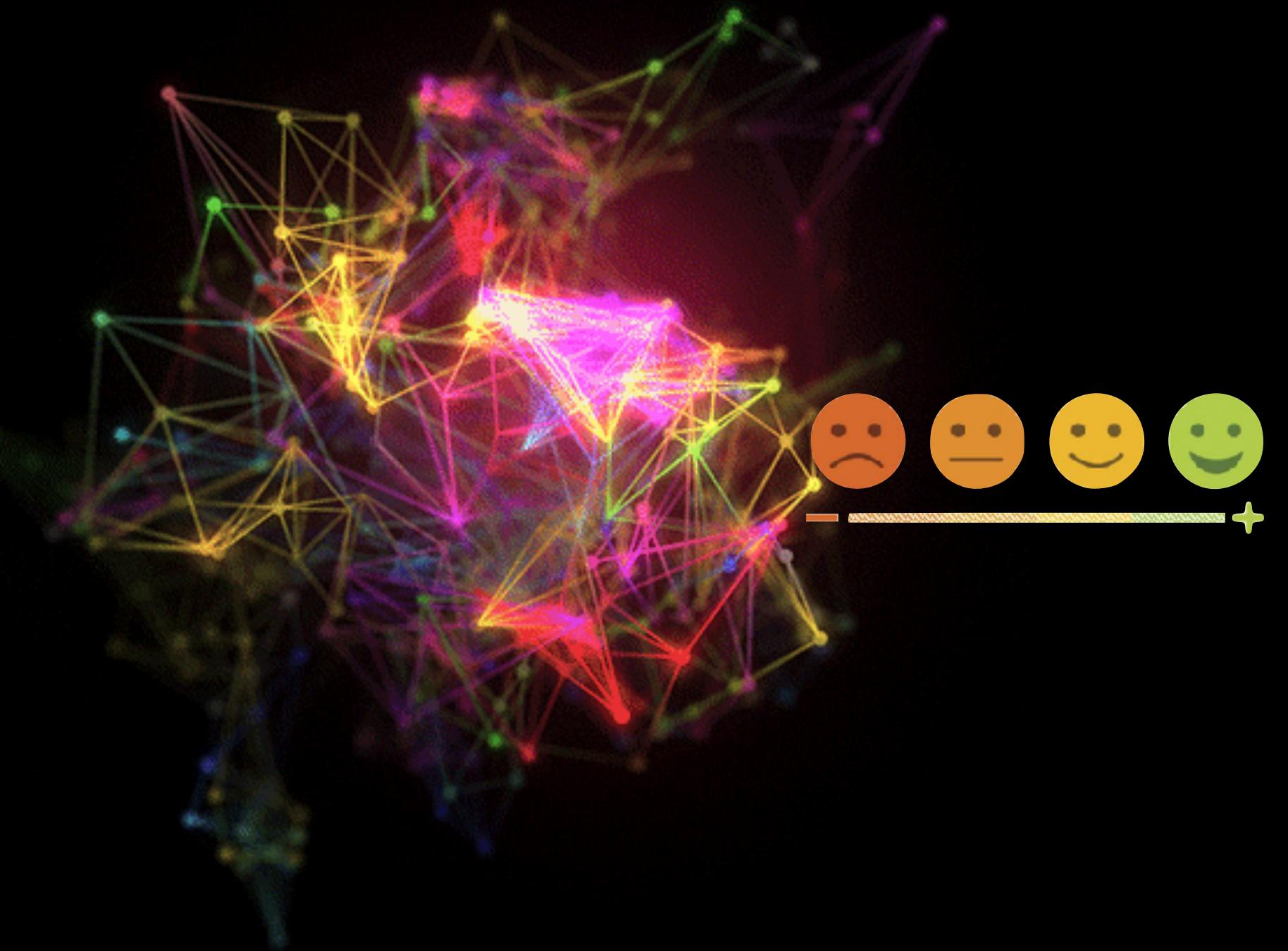
Hexa Robot  
<https://www.vincross.com/en/hexa>



<https://www.lettucegrow.com>

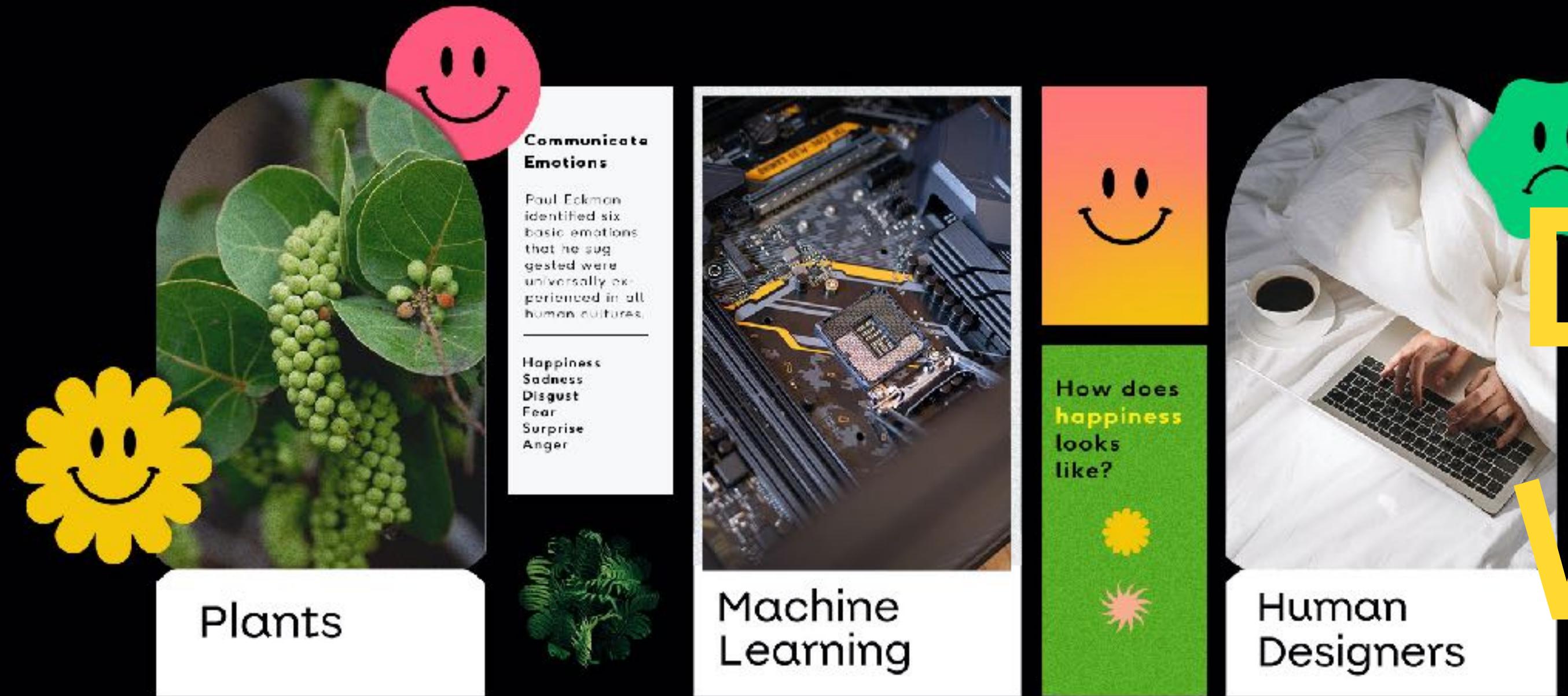
Through this methods,  
interaction within humans  
and other living beings as  
plants can be enhanced.

By introducing students into  
**Generative Machine Learning**  
from a designers perspective, the  
proposed workshop aims to  
promote the generation of new  
**emotion based icons** and  
**interfaces for human - plant**  
**communication and interaction.**





This approach can result in new proposals for: **emoticons, stamps and icons, user interfaces, apps, services and products.**



# During this Workshop

Designers and plants will work with machine learning models to create generative visual elements capable to communicate emotions

# How to do it?

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# Chiba University

The plant is connected to a sensor in order to capture information about its condition like humidity and temperature.



Design  
Department  
Building 1.  
SP Laboratory

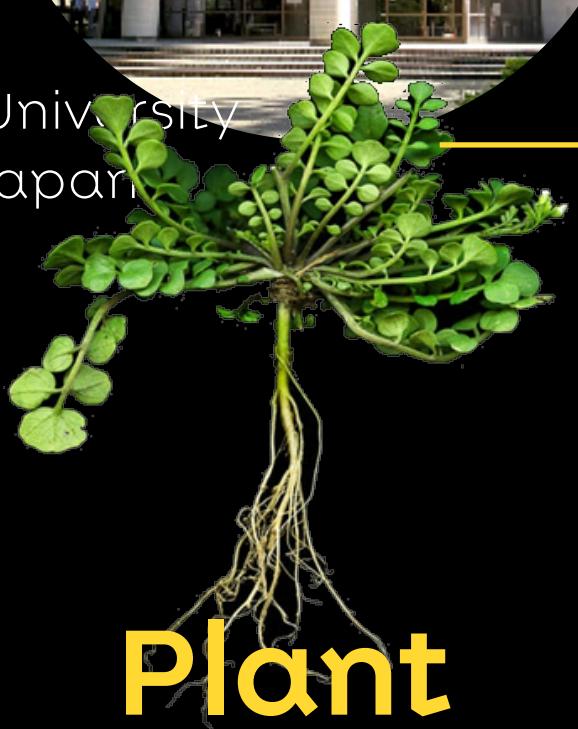


# Connected

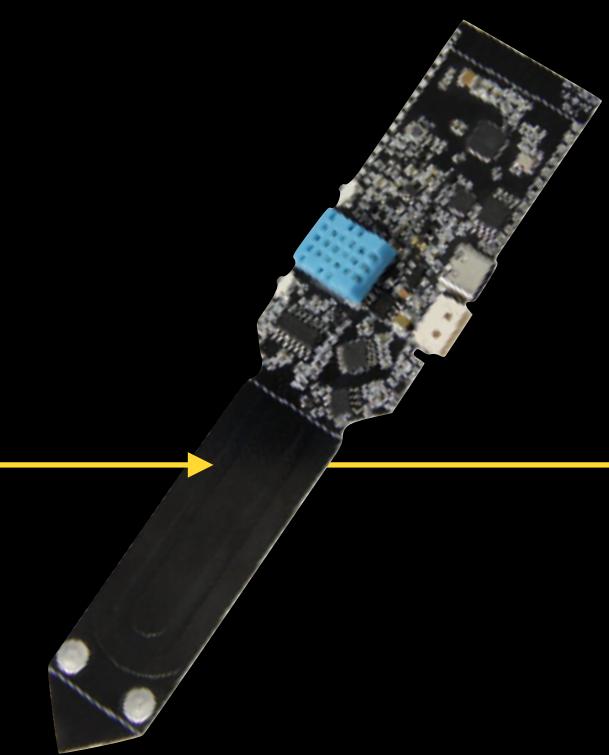
Japan



Chiba University  
Chiba Japan



Plant



Sensor



Cloud



Interface

Korea



Yonsei University  
Seul, Korea

China



Zhejiang University  
Hangzhou, China

# Communicate with your teammates





# Team 1

## Asparagus setaceus



# Team 2

Haworthia fasciata



# Team 3

## Argyranthemum frutescens "Smash double apricot"

# Track the plants



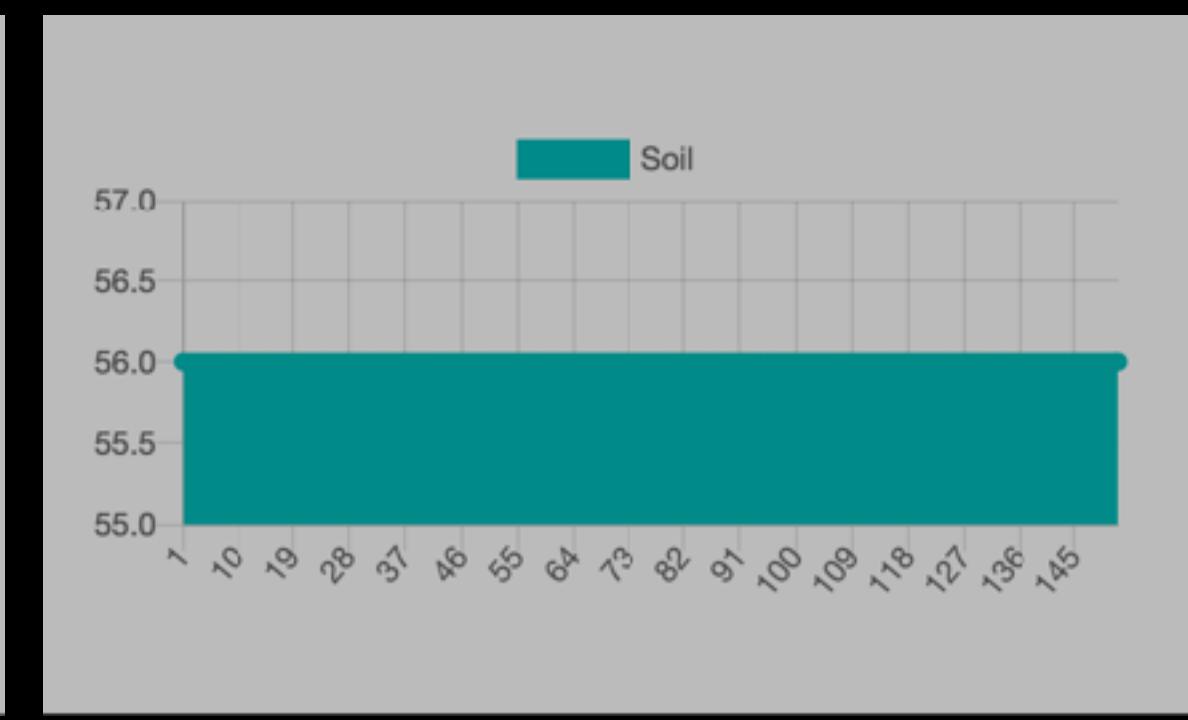
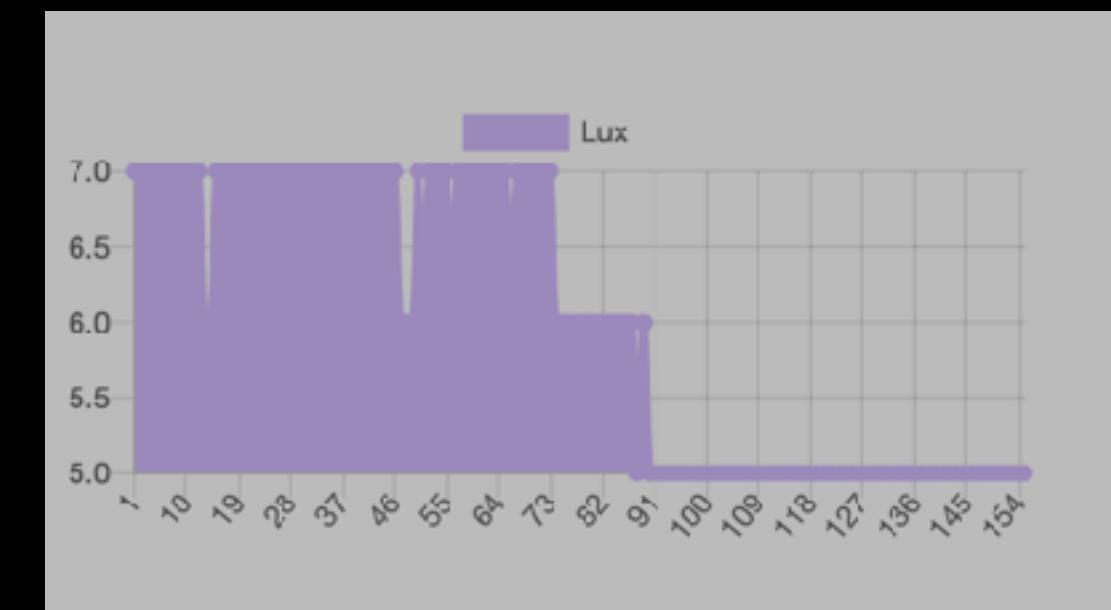
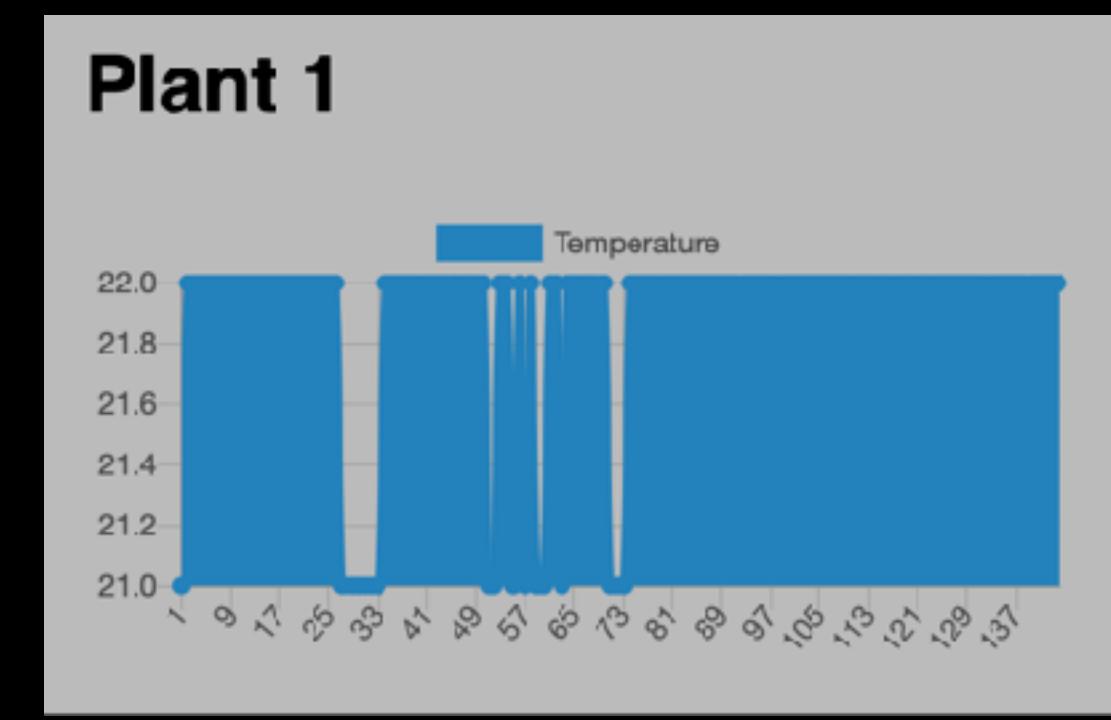
Team 1



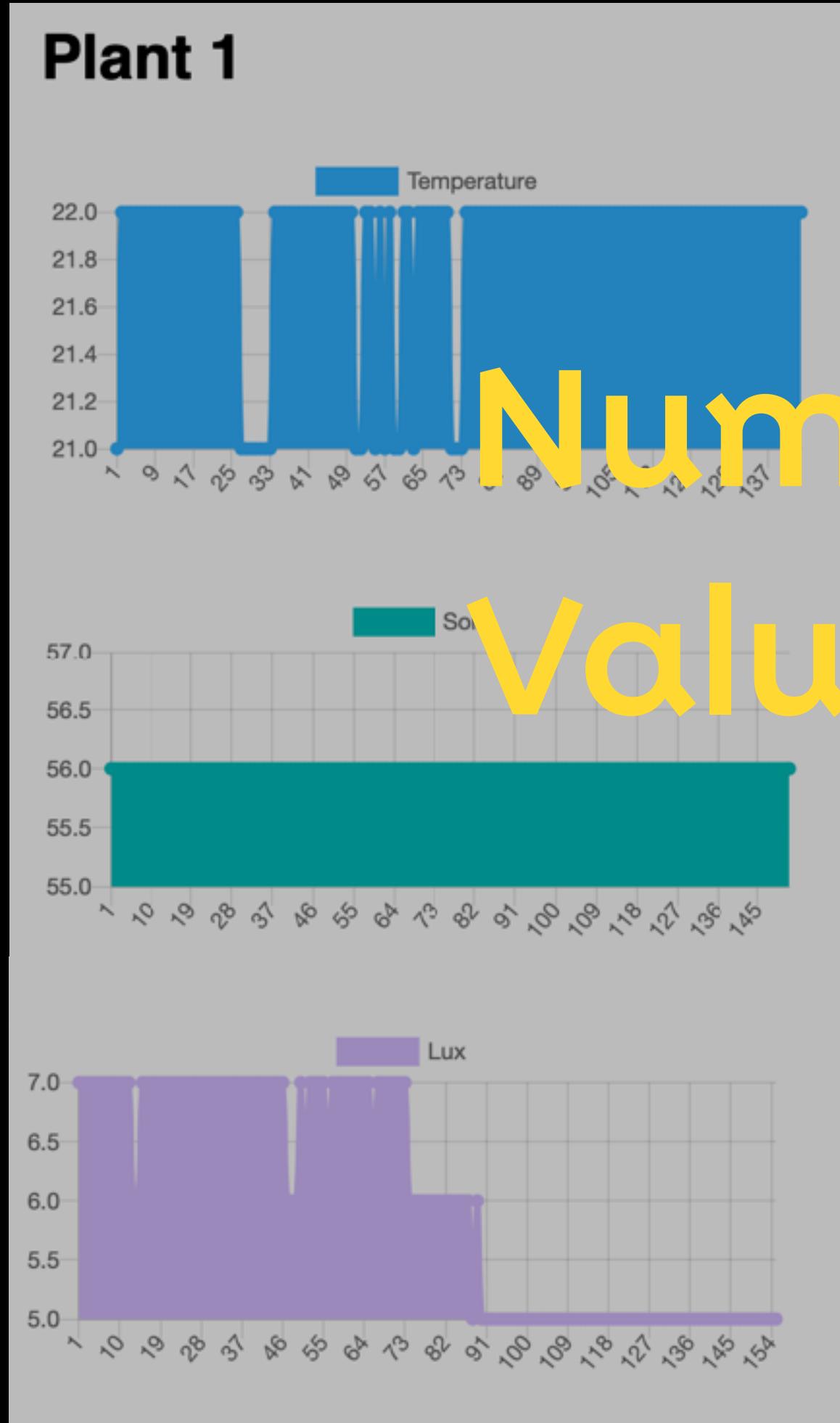
Team 3



Team 2



## Know your plants

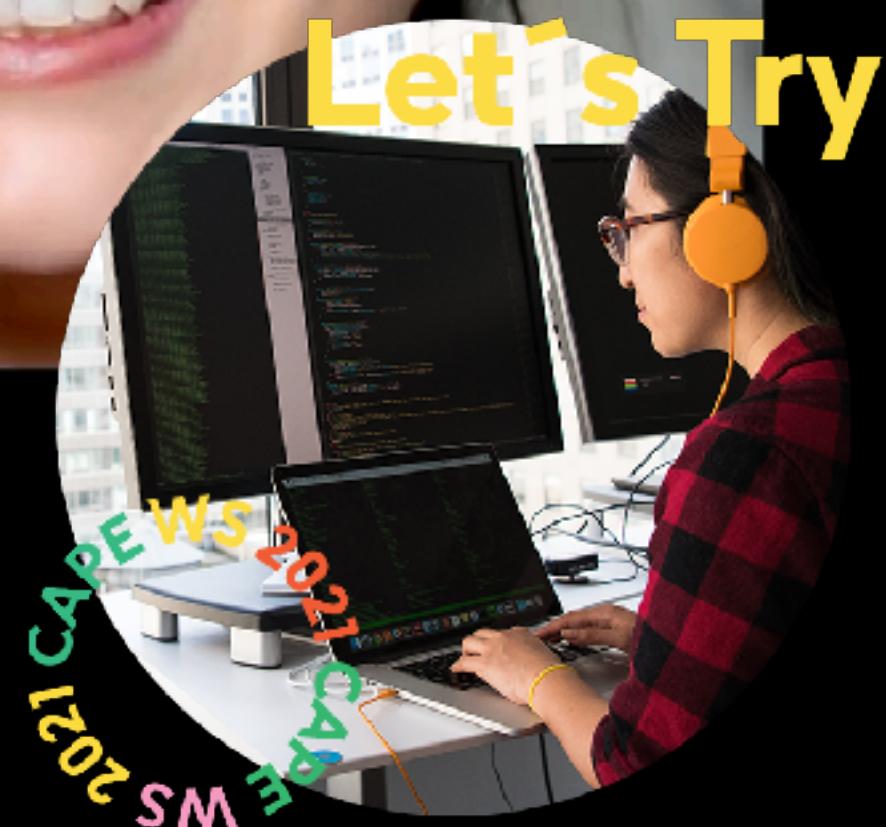
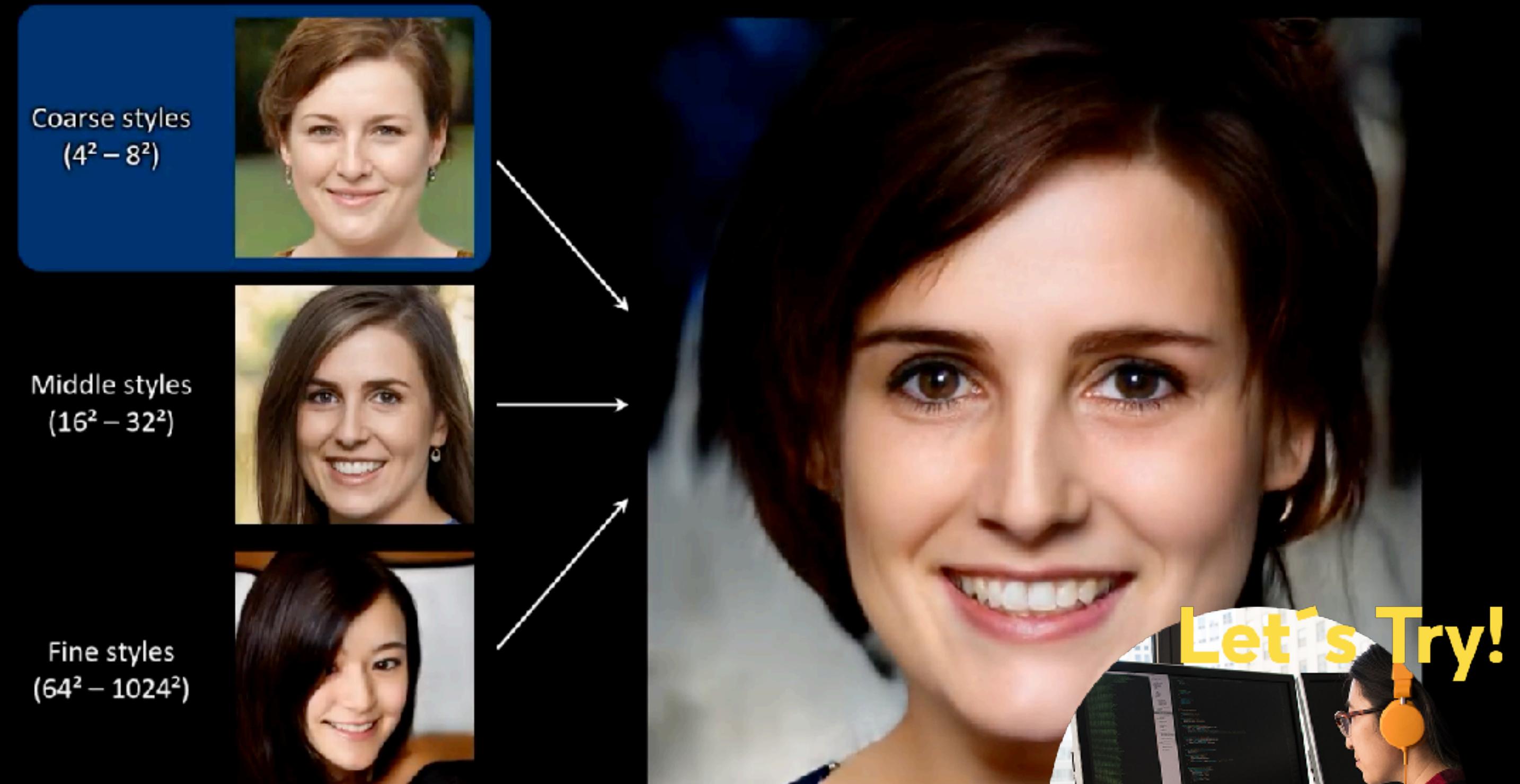


# Generative Visuals



# GAN

# Generative Adversarial Networks



Work with your Team

Conceptualization

# Ideation

**interfaces for human - plant  
communication and interaction.**



Feedback

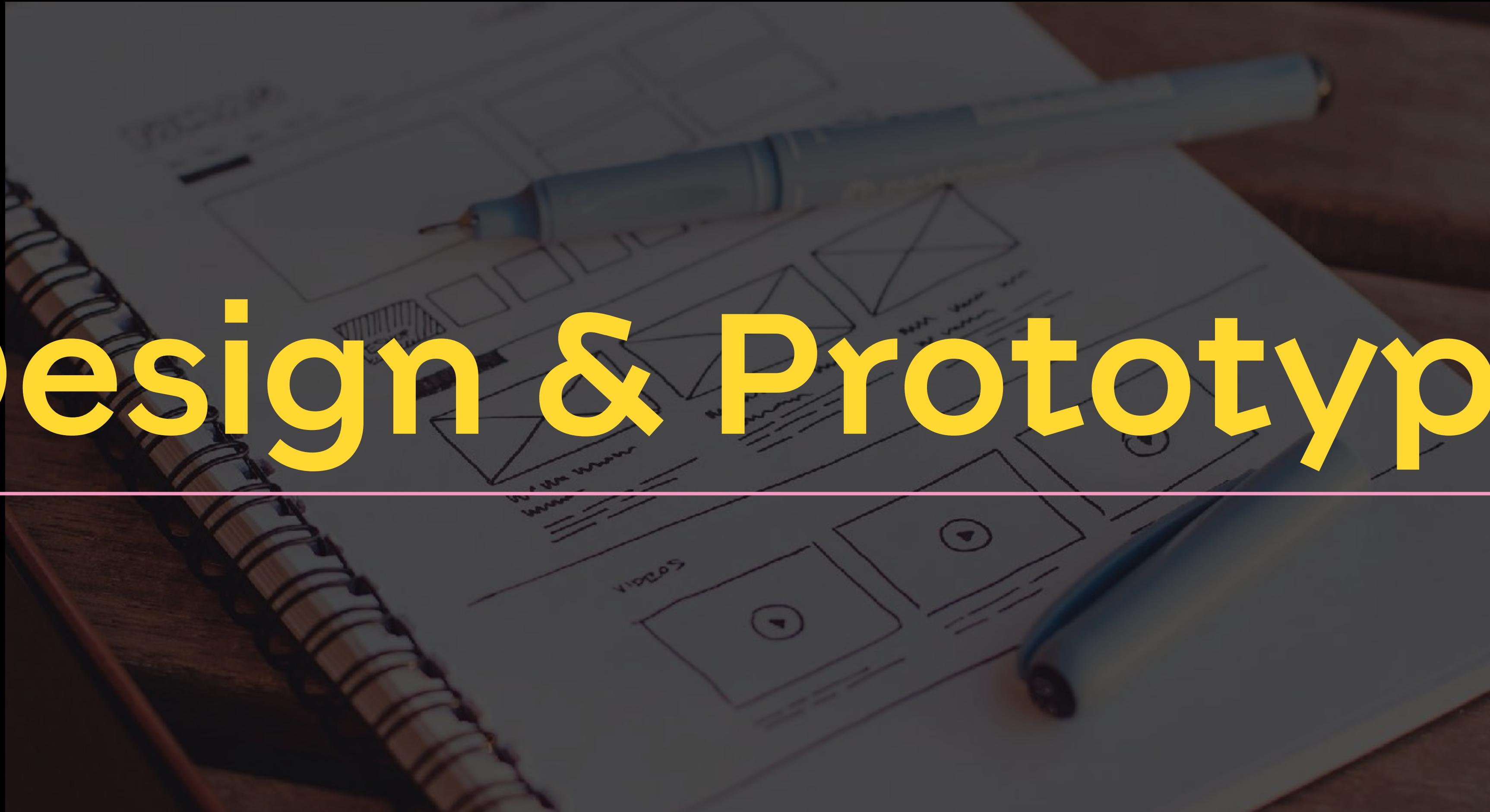
Advices

# Presentation 1

**Proposals about possible applications,  
services, products etc.**



# Design & Prototype



# Final Presentation

**Present proposals and scenarios of possible  
applications, services, products etc.**



# February 18- 26

Cape Online Workshop 2021

Online Workshop

# Schedule

Feb. 18 - 26 / 2021



# Cape Workshop 2021

	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Time JP	February 18	February 19	February 20	February 21	February 22	February 23	February 24	February 25	February 26
10:00-12:00						Students Team work	Students Team work	Students Team work	Students Team work
13:00-14:00	Introduction to the Workshop and Instructions. Students Presentation 5 to 10 Mins Presentation per School (School Introduction and team members)	Generative Design using GAN Lecture Part. 2			Showing Results of Trainning sessions and Tracking	Presentation of first Ideas	Generative Design Lecture Part.3		
14:00-15:00	Presentation by Nagase Sensei & "Team formation"	Exercise using Generative Adversarial Networks	Trainning Day & Plant Tracking	Trainning Day & Plant Tracking	Conceptualization & preparation of first pitch presentation	Feedback Session	Design & Prototyping Team Work	Preparation for Final Presentation	Preparation for Final Presentation
15:00-16:00					Team Work	Advise Session			Final Presentation
16:00-17:00	Introduction to Generative Design Lecture Part 1.	Closing Exercise 1							Feedback & Closure

**Web site**  
**Co-designing with Plants**  
<https://cape2021.github.io/>  
**See More**





# Q&A

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## Questions & Answers

# Contact us!

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# Design Researcher Chiba University

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# Design Researcher Chiba University

# Break Time

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Cape Online Workshop 2021

**Co-designing with Plants**