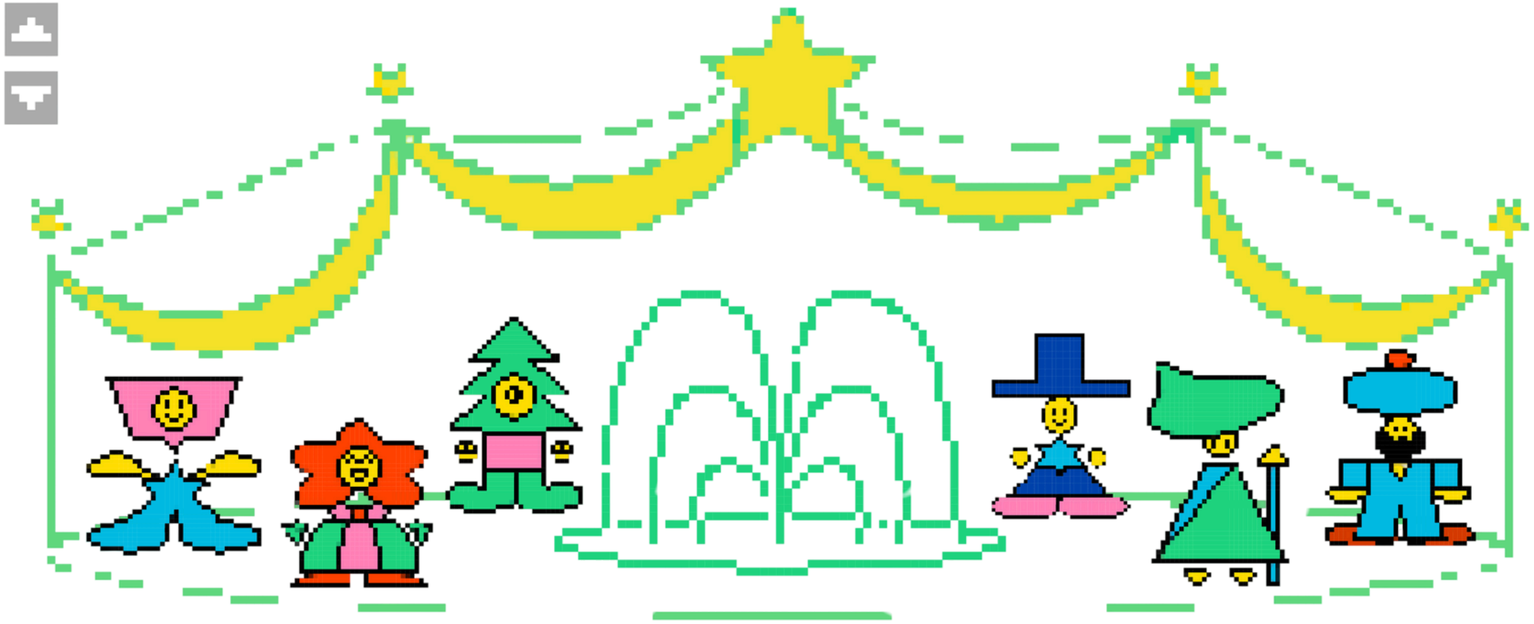


ENVISIONING OUR FUTURE WITH ROBOTS & AI

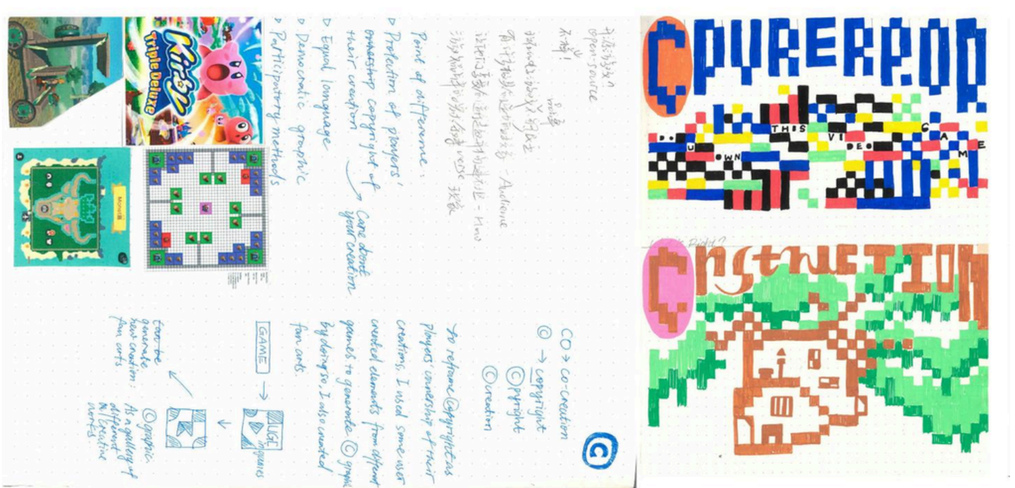
Opportunities & challenges for Europe

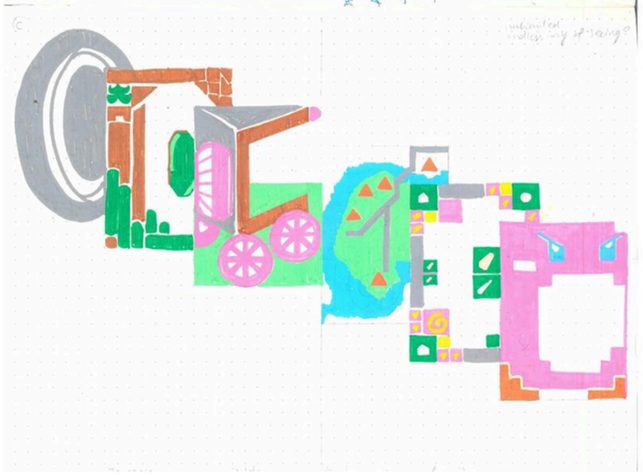
Design Lab ARTD6115 SENYAO WANG

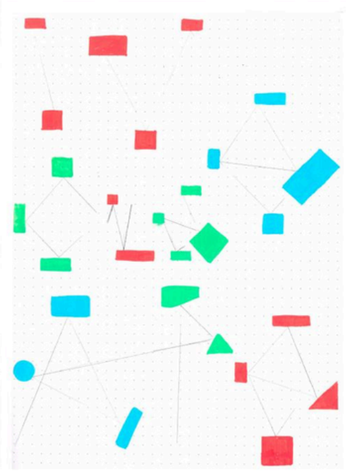
Week 1 30/01/2025 —— Week 5 24/02/25

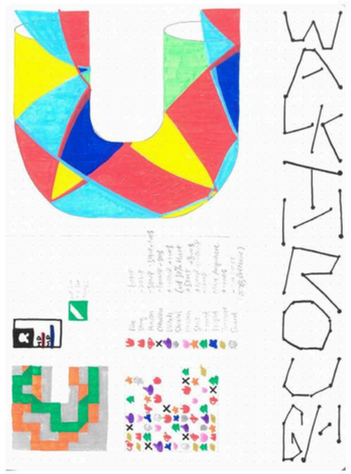
PROCESS

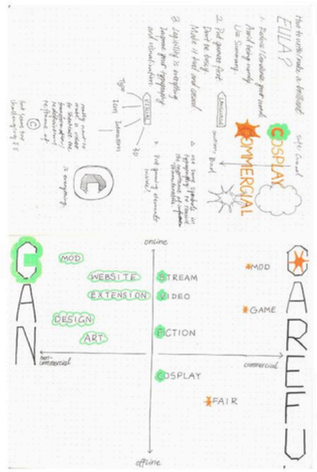
Sketches、Visual experiments、illustrates、Interaction Design

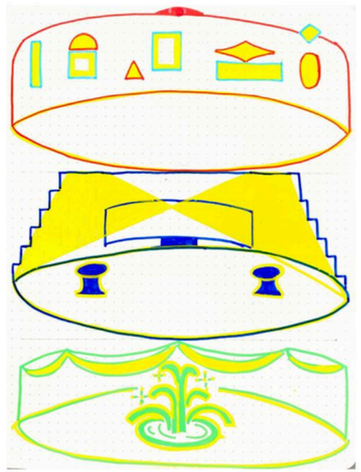


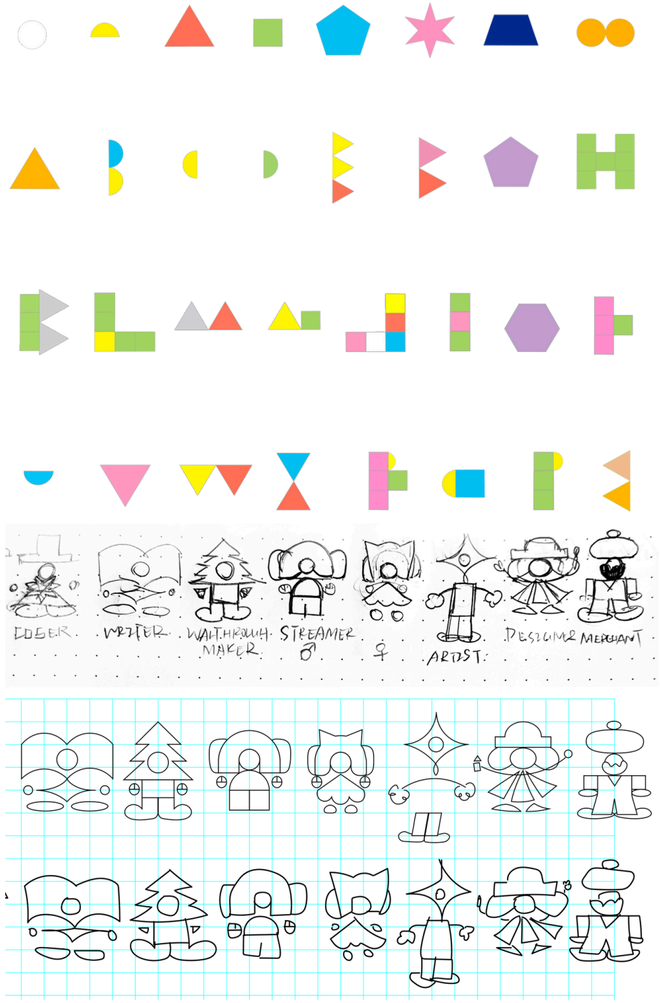










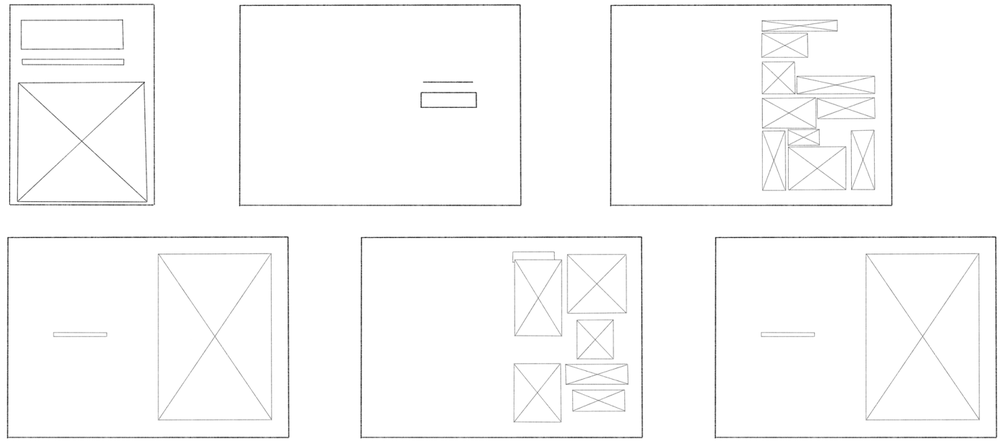


PROCESS

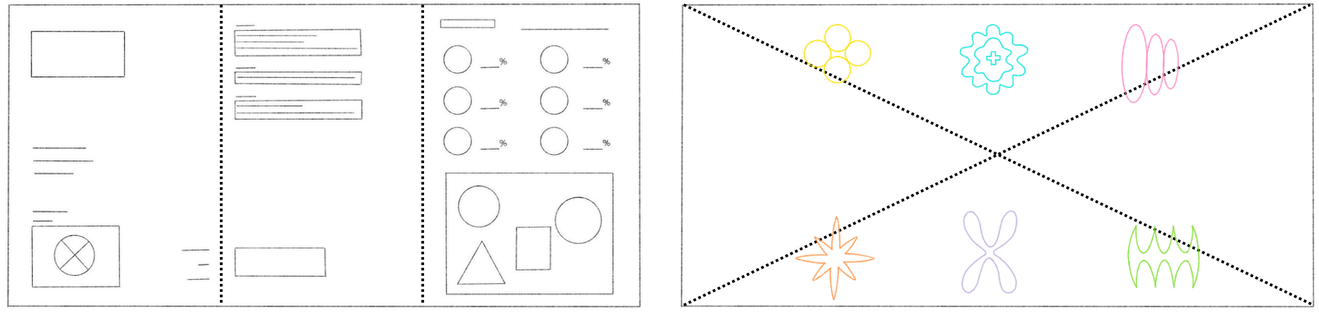
A5 Zine Sketch

PROCESS

A6 Zine Sketch



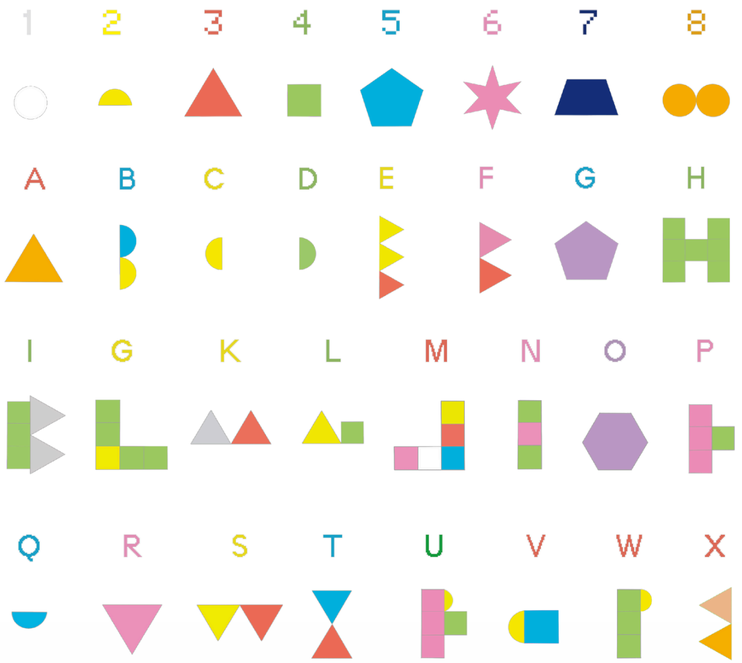
Folded Sketch



INTERACTION DESIGN 1 —— "APP-TITUDE"

"App-titude" is a conceptual game that explores digital identity. In this digital age, our identity is no longer merely a name or a number; it is an "AI Identity Sequence" continuously learned, predicted, and shaped by artificial intelligence within a vast data network.

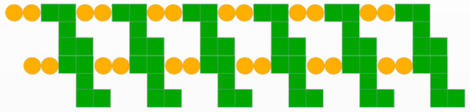
This sequence influences our eligibility for financial services, the protection priority assigned by autonomous driving systems, the accuracy of medical decisions, and even whether our privacy is compromised.



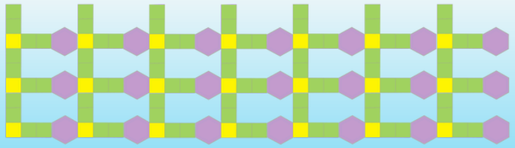
Scan the code to watch the gameplay video

Financial market crashes:

Medical robot errors:

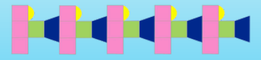


Self-driving accidents:



Privacy issues:

AI bias:



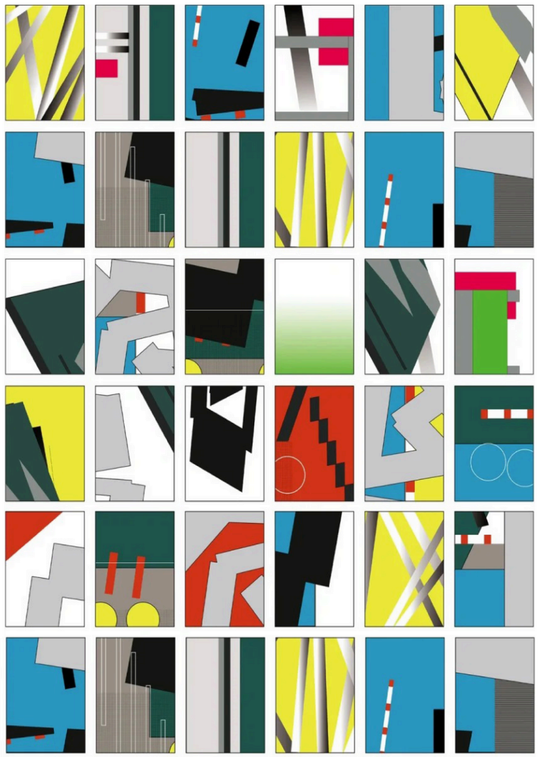
This App constructs a visual "AI Identity Growth System" where users, represented by a red dot, navigate through a maze built from data trajectories.

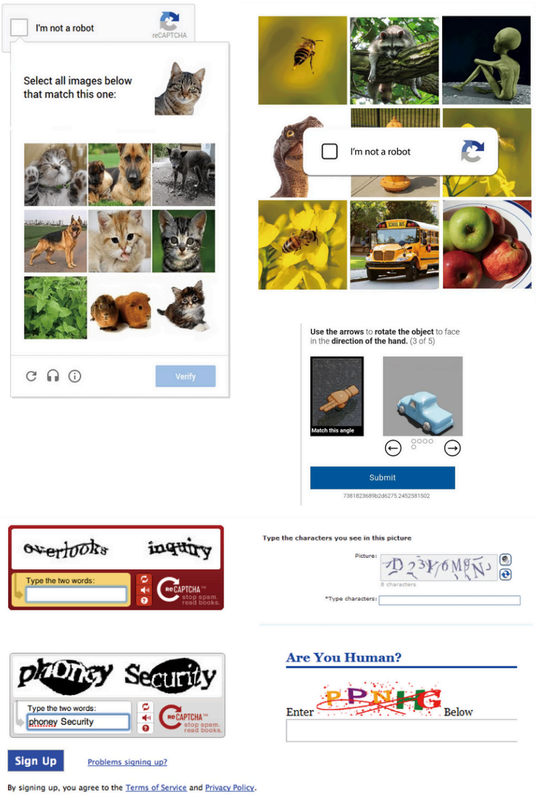
The maze is ever-changing, reflecting how AI adjusts its judgments based on individual behavior and forms an identity model that may ultimately be beyond personal control.

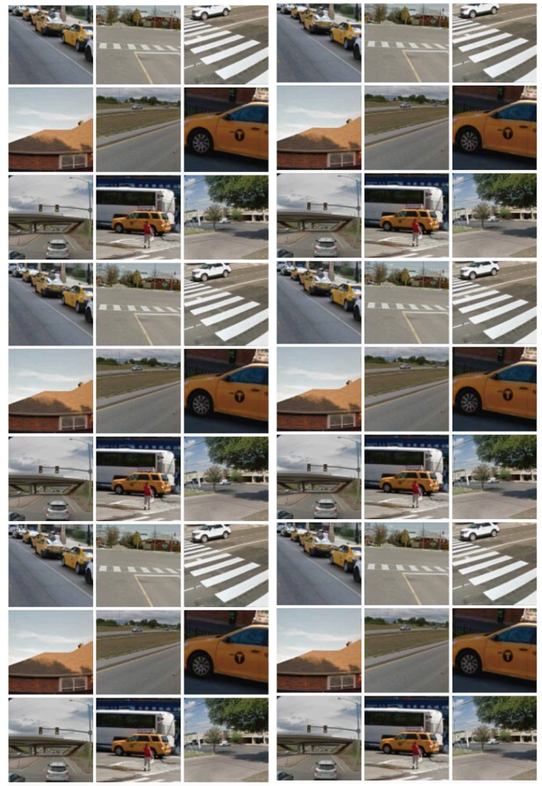
In this interactive experience, you will embody your own "AI identity," engaging in a daily game of monitoring and counter-monitoring with the data maze.

Can you control your digital identity, or have you already become part of the data torrent?

INTERACTION DESIGN 2 —— SYMBOLIC AI HANDBOOK （CAPTCHA）







Are you a robot ?

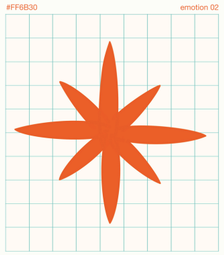
I'm not a robot	☐

INTERACTION DESIGN 3 —— CREATE A MOOD GRAPHIC ABOUT THE FUTURE OF AI

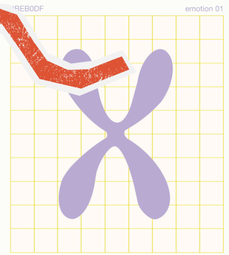
STEP1
Choose & Combine Your EmotionsPick up to 4 emotion stickersArrange them on your Zine to visually mix youremotions about Al's future.

STEP2
Based on your feelings, assign percentages to youremotion mix.

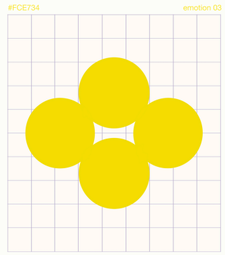
STEP3
Define & Name Your EmotionFinally you can name your emotions and completea unique personal emotion booklet.



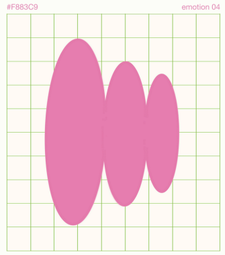
Angry



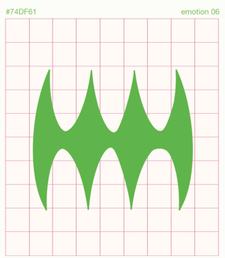
Loathe



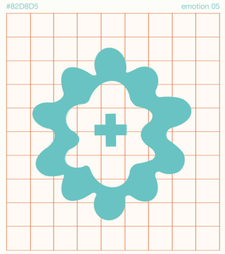
Happiness



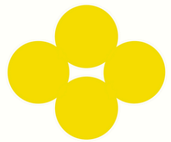
Shocked



Fear



Sadness


Happiness

Sadness

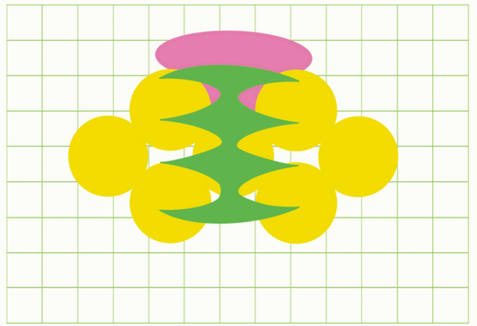
Shocked

Angry

Loathe

Fear

For example
Cynthia



Your emotion name _____

____%

____%

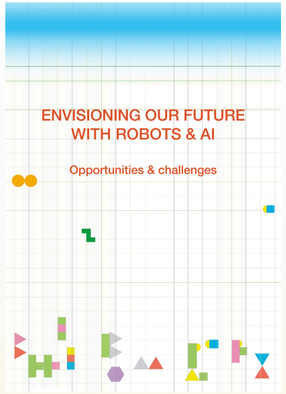
____%

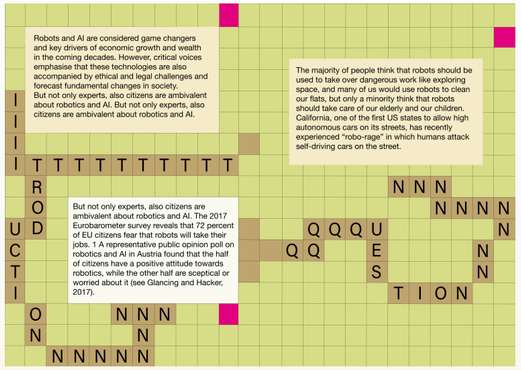
____%

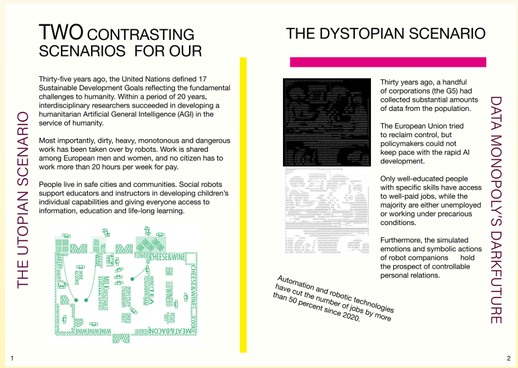
____%

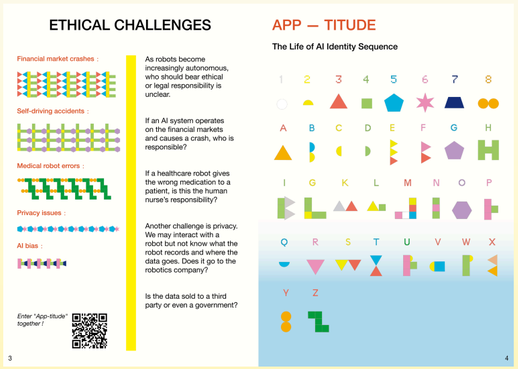
____%

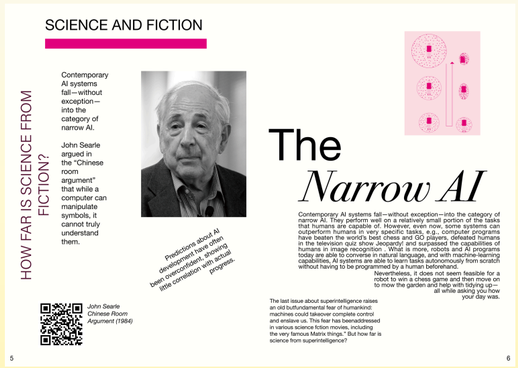
A5 ZINE OUTCOME

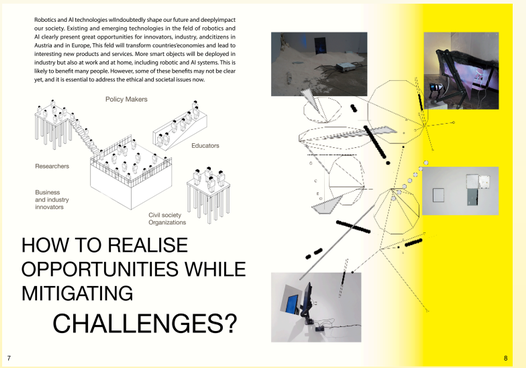












In 2016, the European Parliament called for ethical and legal councils to support national policymakers in the development of appropriate AI and robotics policies. These policies should not only aim to raise advantage of the opportunities but also consider ethical and cultural values.

The aim

should not be to mitigate the harm and negative effects of robots after they have already been introduced into society but instead to proactively take stock of the impact of this technology in advance. In

Austria, the Federal Ministry for Transport, Innovation and Technology responded to this call by nominating experts for the Austrian Robotics Council in 2017. Members of this council come from various disciplines, including philosophy, psychology, engineering, computer science, law, the social sciences and economics and also include representatives of the Austrian Chamber of Labour and the Austrian Federation of Industry.

The Austrian Robotics Council's mandate is to provide expertise and policy recommendations to the federal minister with regard to the

development of an appropriate robotics and AI strategy.

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The work of this council builds on various existing international initiatives, including the Foundation for Responsible Robotics ; the

IEEE rganisation, which published a comprehensive report on ethics and AI at the end of 2017; and the European Initiative for

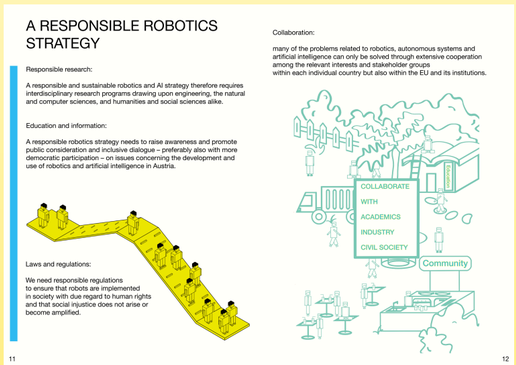
Responsible Research and Innovation.

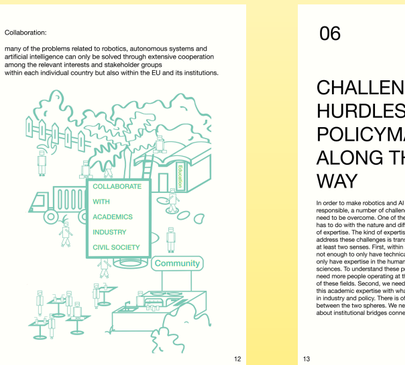
But responsible technology development in this area is not only a matter of academic experience, but also a new approach to human rights and its ability to create an inclusive dialogue among

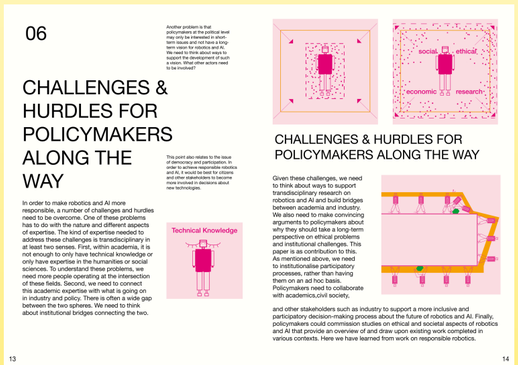
all stakeholders : researchers and educators, business and industry innovators, and civil society organisations and policymakers. Moreover, responsible robotics takes a proactive approach, which already thinks about ethical and societal challenges when and before the technology is developed.

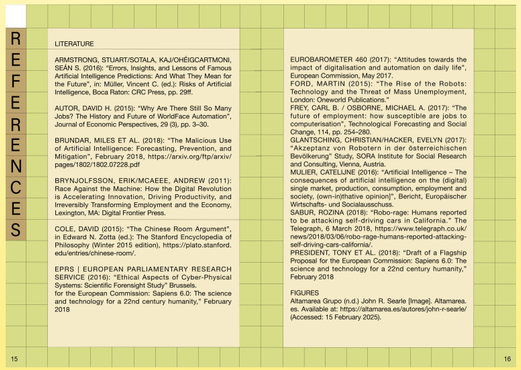
The main pillars of a responsible robotics and AI strategy are responsible research, education, law and regulation, and collaboration.

10







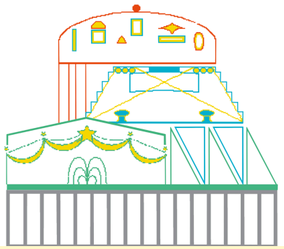


Typesetting & Editing by
Senyao Wang

A6 ZINE OUTCOME

SYMBOLIC AI HANDBOOK

A Visual Dictionary for Human-AI Interaction

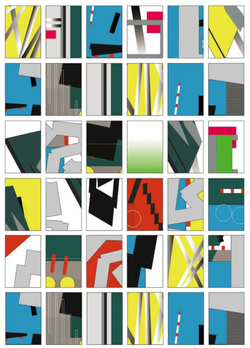


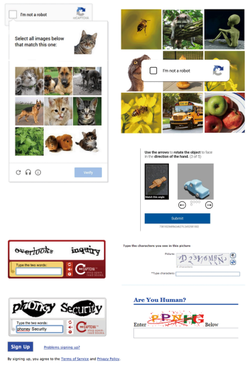
Are you a robot ?

I'm not a robot

Select all images with taxi

Select all images with taxi



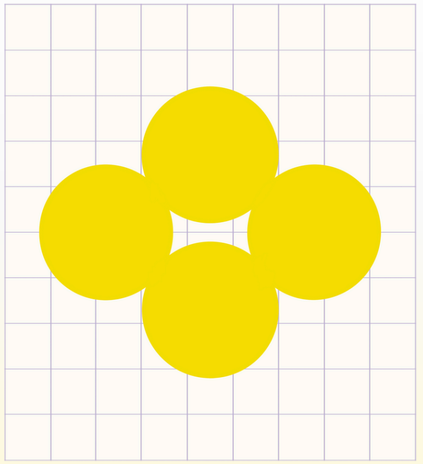


CARD OUTCOME

Emotion Collection

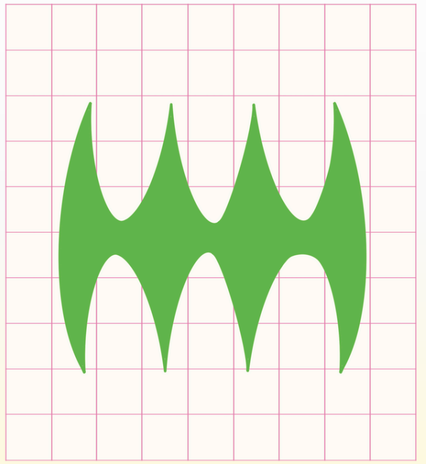
These basic emotions form the foundation of complex emotions

#FCE734 emotion 03



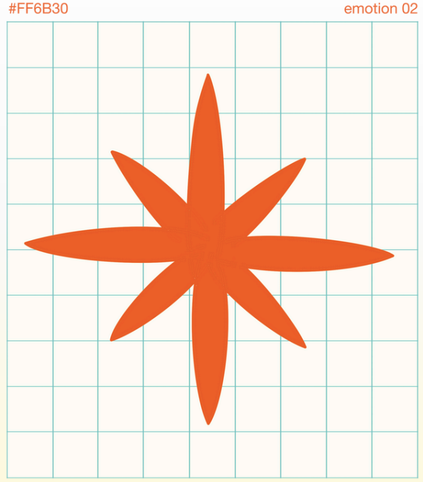
Happiness

#74DF61 emotion 06



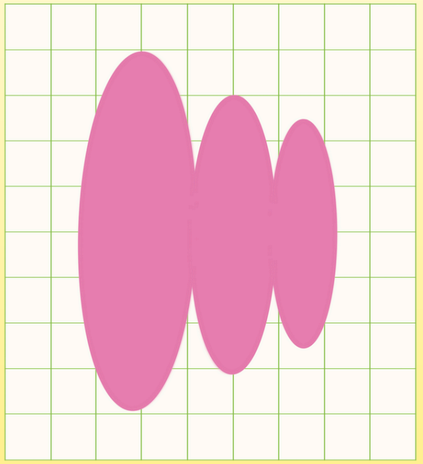
Fear

#FF6B30 emotion 02



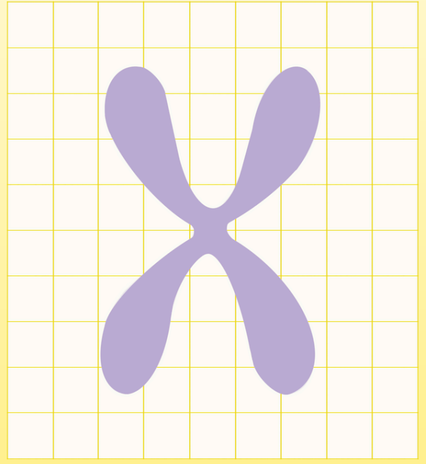
Angry

#F883C9 emotion 04



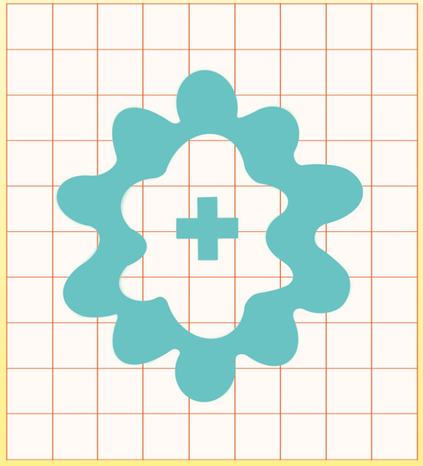
Shocked

#BEB0DF emotion 01



Loathe

#82D8D5 emotion 05



Sadness

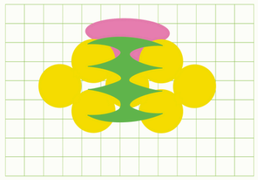
FOLDING CARD OUTCOME

How do you

feel about AI's future ?

Let's Image your emotion elements

For example
Cynthia



Happiness
+
Fear
+
Shocked

STEP1

Choose & Combine Your Emotions
Pick up to 4 emotion stickers
Arrange them on your Zine to visually mix your emotions about AI's future.

STEP2

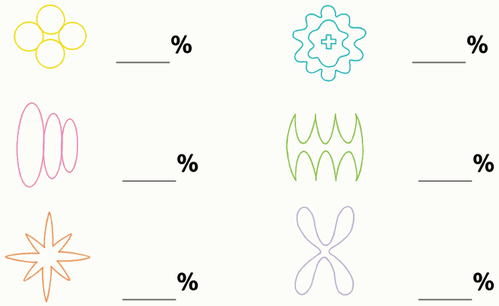
Based on your feelings, assign percentages to your emotion mix.

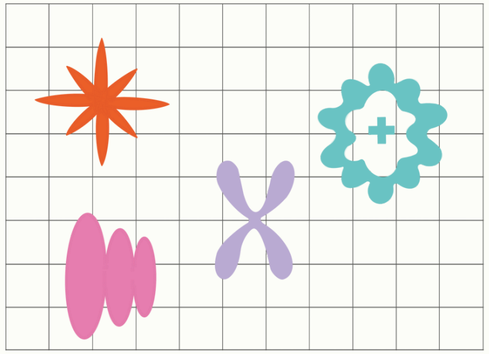
STEP3

Define & Name Your Emotion
Finally you can name your emotions and complete a unique personal emotion booklet.

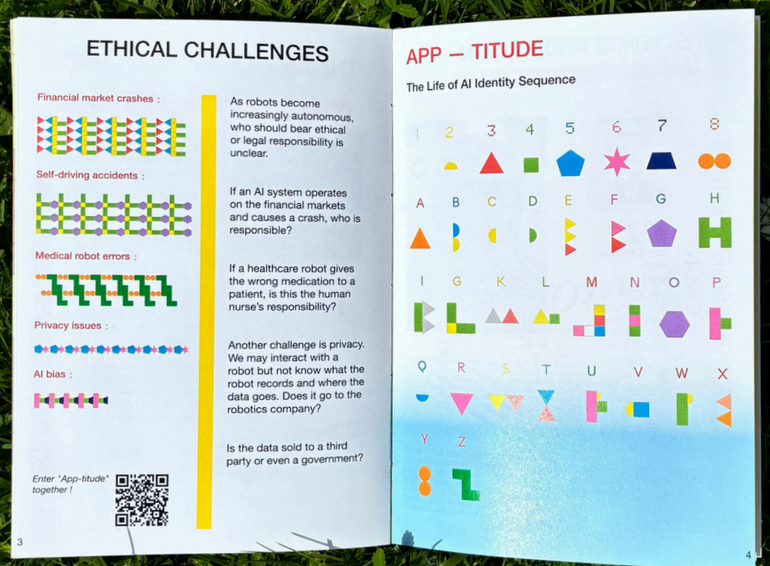
Identify your emotion report

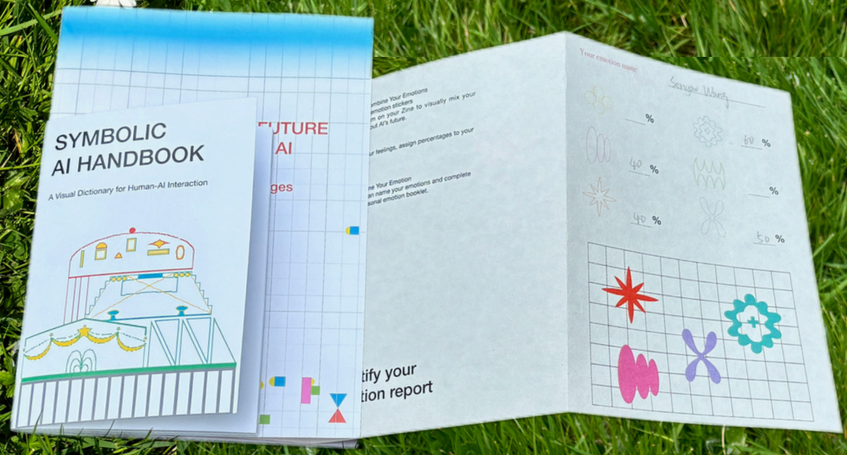
Your emotion name _____



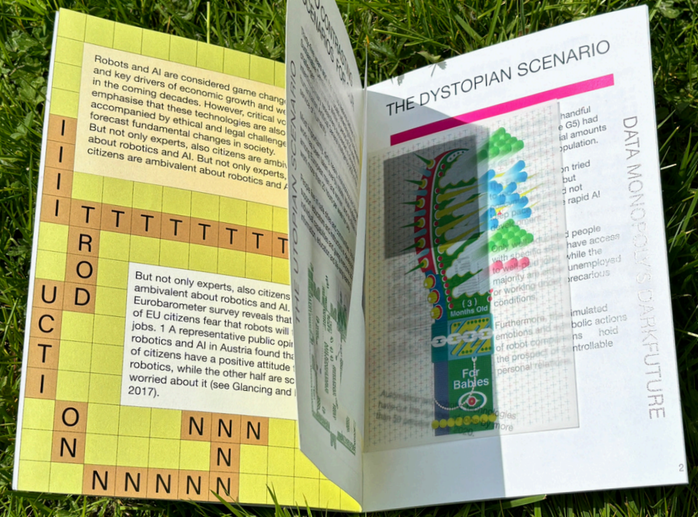


OUTCOME


ETHICAL CHALLENGES
Financial market crashes :
As robots become increasingly autonomous, who should bear ethical or legal responsibility is unclear.
Self-driving accidents :
If an AI system operates on the financial markets and causes a crash, who is responsible?
Medical robot errors :
If a healthcare robot gives the wrong medication to a patient, is this the human nurse's responsibility?
Privacy issues :
Another challenge is privacy. We may interact with a robot but not know what the robot records and where the data goes. Does it go to the robotics company?
AI bias :
Is the data sold to a third party or even a government?
Enter "App-titude" together !
3
APP — TITUDE
The Life of AI Identity Sequence
1 2 3 4 5 6 7 8
A B C D E F G H
I G K L M N O P
Q R S T U V W X
Y Z
4


SYMBOLIC
AI HANDBOOK
A Visual Dictionary for Human-AI Interaction

Happiness
Sadness
Shocked
Fear
Angry
Loathe
Emotion
Collection


THE DYSTOPIAN SCENARIO
DATA MONOPOLY'S DARKFUTURE
For
Babies

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Happiness
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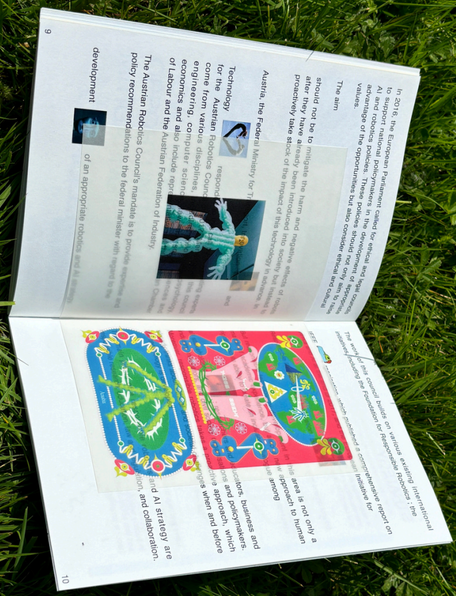
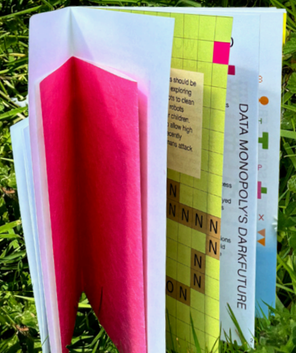


SYMBOLIC
AI HANDBOOK


DATA MONOPOLY'S DARKFUTURE