This is a compressed PDF file.
Please kindly request for original files with animation.

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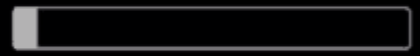

Which one is artificial?

AI-Generated

AI-Generated

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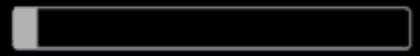
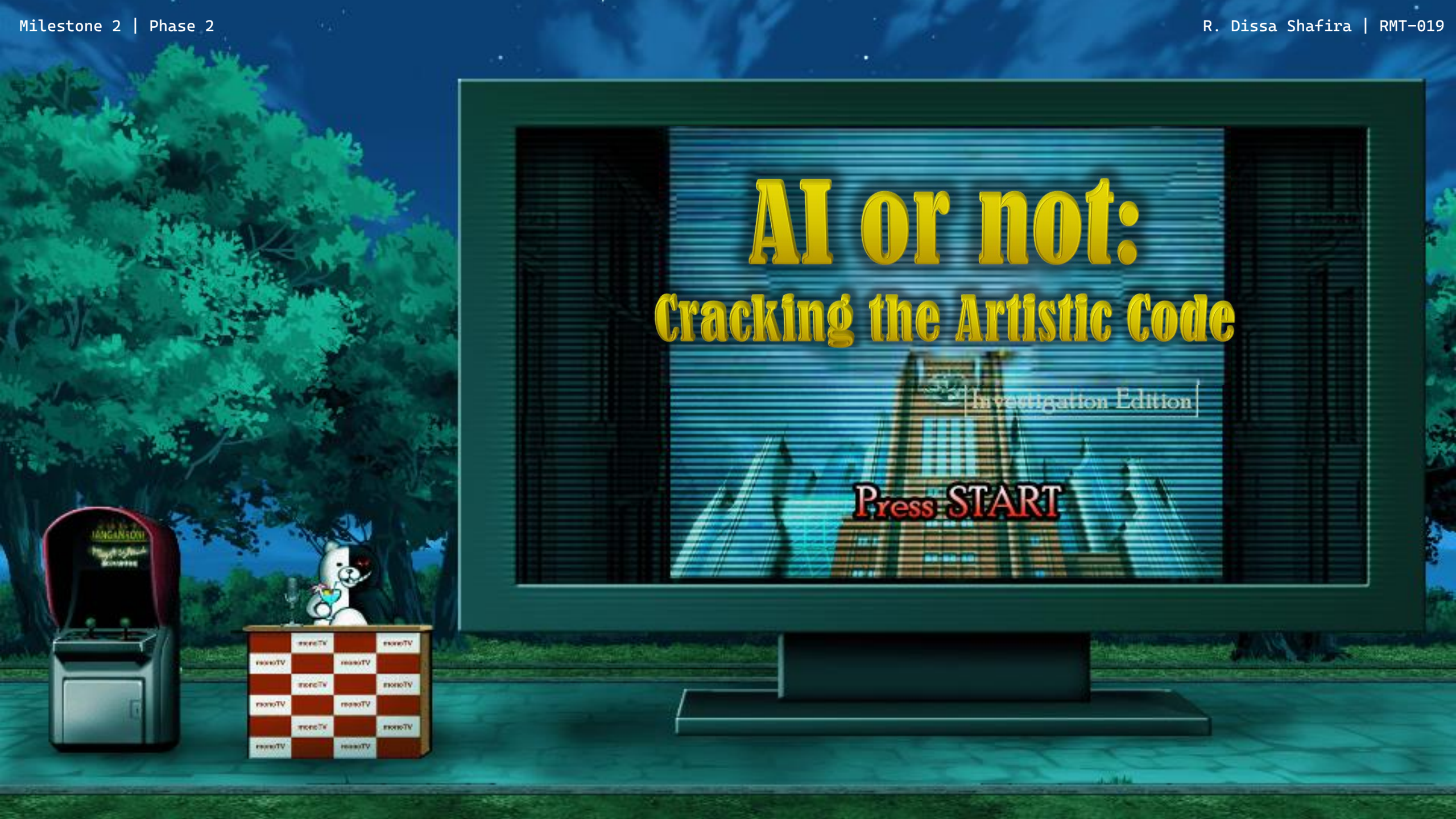


Did you know? In 2018, an AI-generated artwork titled "Portrait of Edmond de Belamy" sold for over $400,000 at an auction, sparking a debate about the value and authenticity of AI-created art.

R. Dissa Shafira | RMT-019



*The emergence of AI art has brought both **excitement** and **skepticism**.*

- Enabling artists to explore new techniques and styles
- Accessible to a wider audience

"Make me a painting that looks like it was made by *<insert artist's name>*"

"Hey! That is not my work!"

Chapter zero:
Why should we?

- The depth and originality of AI-generated artwork
- Issues of copyright and ethical implications

(for artist whose art used to train the AI without permission)

Are you excited about the emergence of AI-art?

> Yes!

> No

We may need to establish differentiation to ensure that both forms of art retain their distinctive purposes and roles.

When theyre mixed up, they are clashing.

Human-made?

Chapter one:

How to differentiate them?

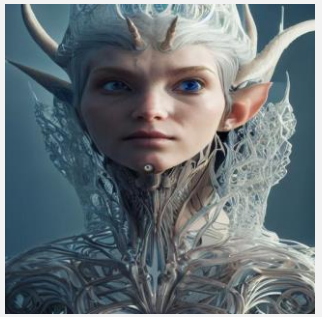
AI-Generated?

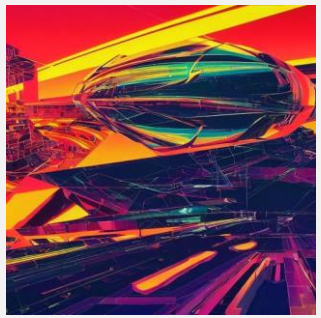
What can be categorized as ‘AI-generated’ and what not?

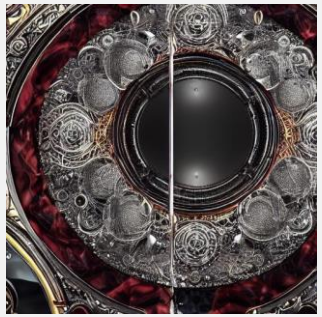
Human-made from our dataset:
> Hand painted traditional paintings
> Free stocks/ consented artist

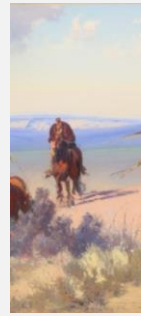
Copyright issues

We noticed that our dataset contains old paintings; probably because the copyright of an artist's work expires approximately 70 years after the artist's passing.







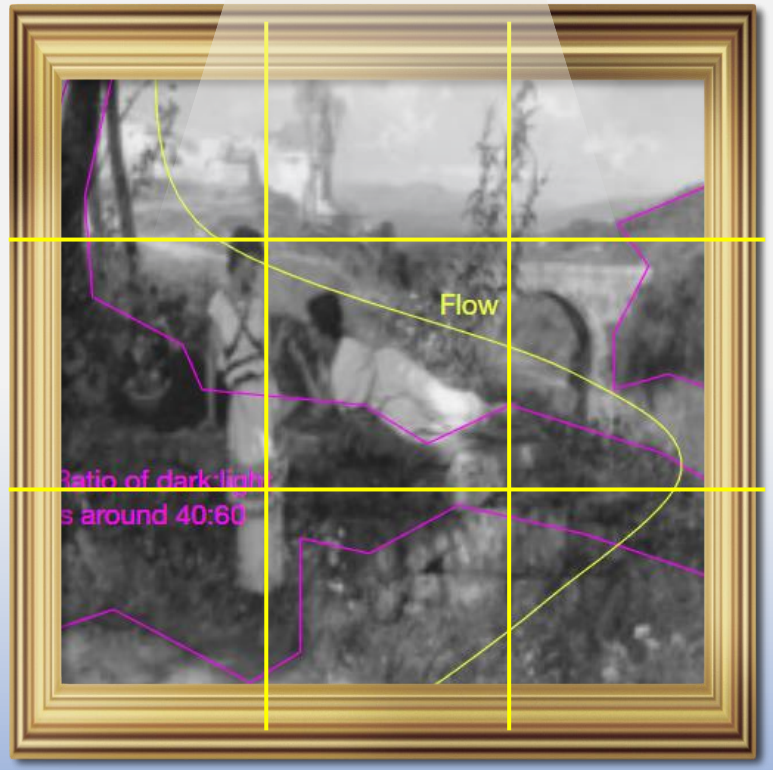


AI-Generated from our dataset:
> Traditional paintings
> Digital paintings

Outdated issue

Our dataset does not include very updated AI-generated art since the data collection was conducted up until January 2023.

Human



Probably, similar as to how you would calculate an object boundaries in an image.

Artificial

They also looked like theyre robust to saturation.

They may incorporate colors that dont exist in the real world.

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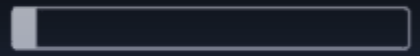

Those are the things that us human perceives. We are uncertain if our machine can perceive them in the same way.

We are going to conduct an experiment using a CNN model;

a powerful tool that can analyze and detect various visual features, including brush strokes, composition, and more.

Upload an image

Predict

Result: Likely Man-made

Coincidence?

	precision	recall	accuracy
Human	0.86	1.00	
AI	1.00	0.83	0.92

Chapter two:

Predict some images

Surprisingly, the simplest model performs the best.

We found that augmented data didnt improved the models performance significantly.

Model was chosen for its better fitting, efficiency in training time (70s from other model 350s), and better overall performance

Can we believe you?

Human Predicted as Human 32	Human Predicted as AI 0
AI Predicted as Human 5	AI Predicted as AI 24

Hehehe, I got into this company using AI :p

Ooh, so that's where they can spot it. Then I can be better by fixing this exact one...

My drawing got the answer "Looks generated".
So based on your deductions, you mean my drawing looks fake, smeared, dull, and lacks of focal points?!

I spot this fraud!!

Hehehe, I got into this company using AI :p

I hired the wrong person!
He doesn't understand basic anatomy!

Fail to predict artificial

Composition

Color palette

Advancement

The data that the model fails to predict, do with AI of the exhibit area specific January 2023, and
the beginning between the, significant, following the rule of thirds, or arranged in a grid pattern.
traditional art that is colored in duller colors.

Why did I get the answer “Looks generated”?!

Fail to predict human-made

Limited source

It was digital

Additionally, the dataset used for training may not have included a sufficient representation of human-made digital art, causing the model to misclassify digital art as AI-generated could be attributed to the absence of such contemporary artworks in the training set.

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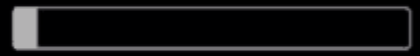
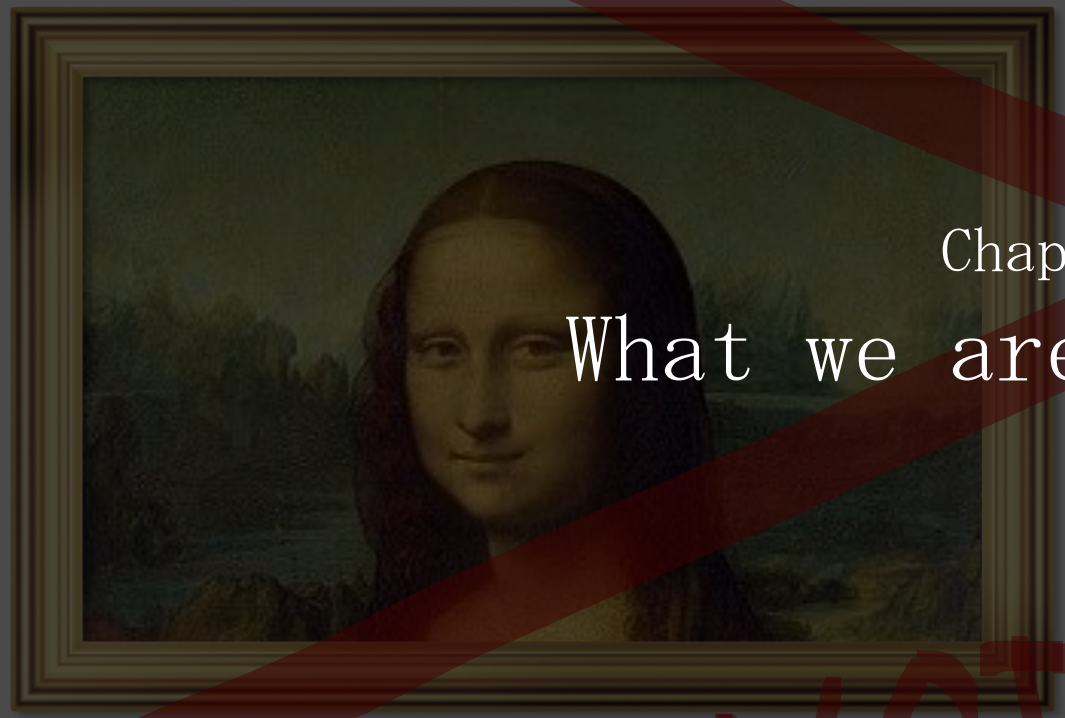


Did you know? Contemporary artists are now “protecting” their artwork using “style cloaks”.
The cloaks make calculated changes to pixel within images; enough to “fool” AI model for the time being.

Which one is traditional art?



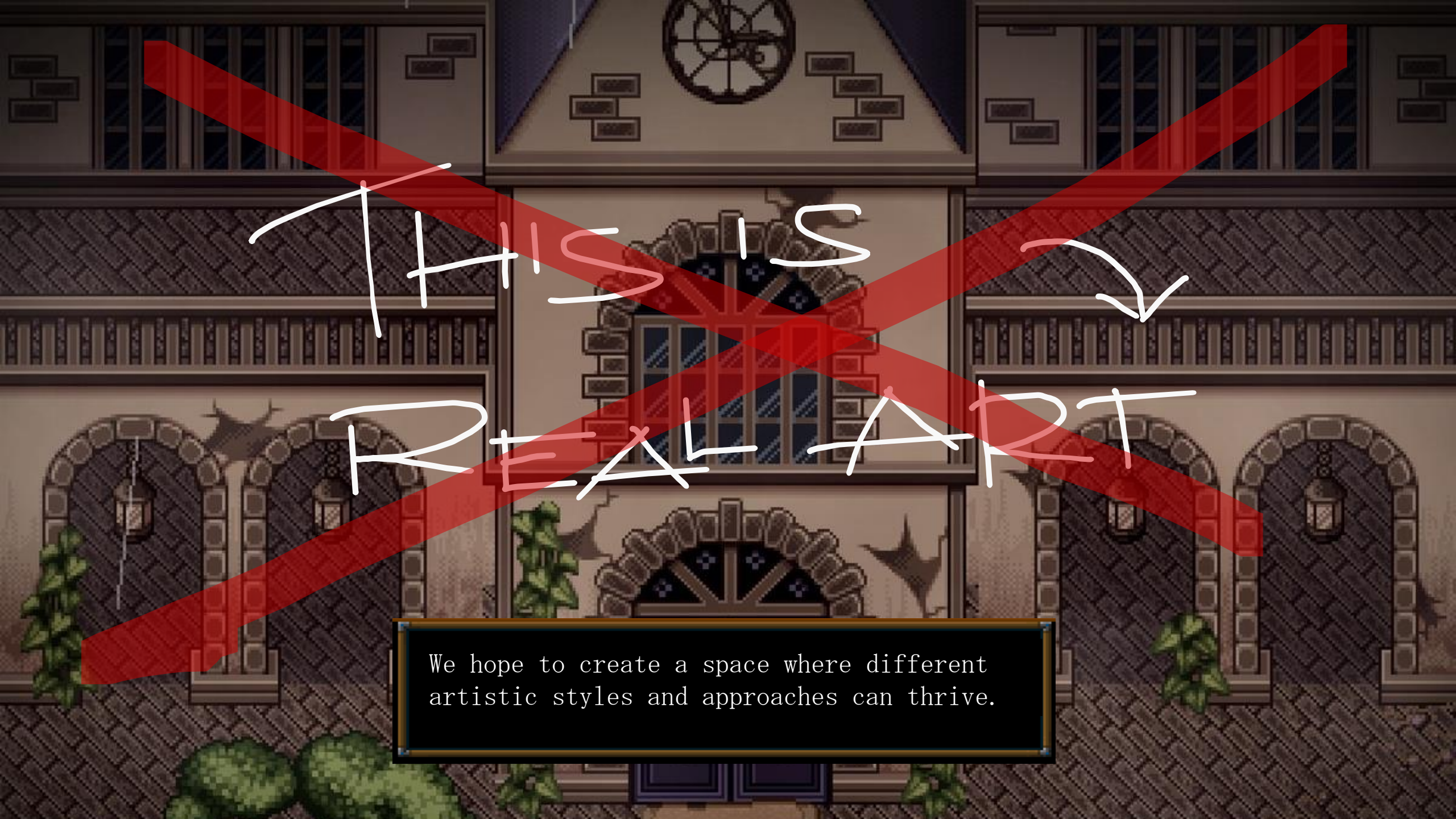
Chapter three:

What we are worried about

NOT OUR PURPOSE

Traditional

Digital


THIS IS NOT REAL ART
We hope to create a space where different artistic styles and approaches can thrive.

Last chapter:

What can be improved?

Different algorithms that actually detect artificial behavior, rather than what is "visually looks artificial".

"Beauty is in the eye of the beholder."

Please note that while our AI art detection model can be an assist, it is should not be the sole determinant of artistic authenticity nor to articulate how visually "fake" and "bad" an art is. It is meant to be used as a tool to gain a richer understanding and appreciation of art in its various forms.

We believe in a world where different forms of creativity can coexist.

GAME OVER
Down five...