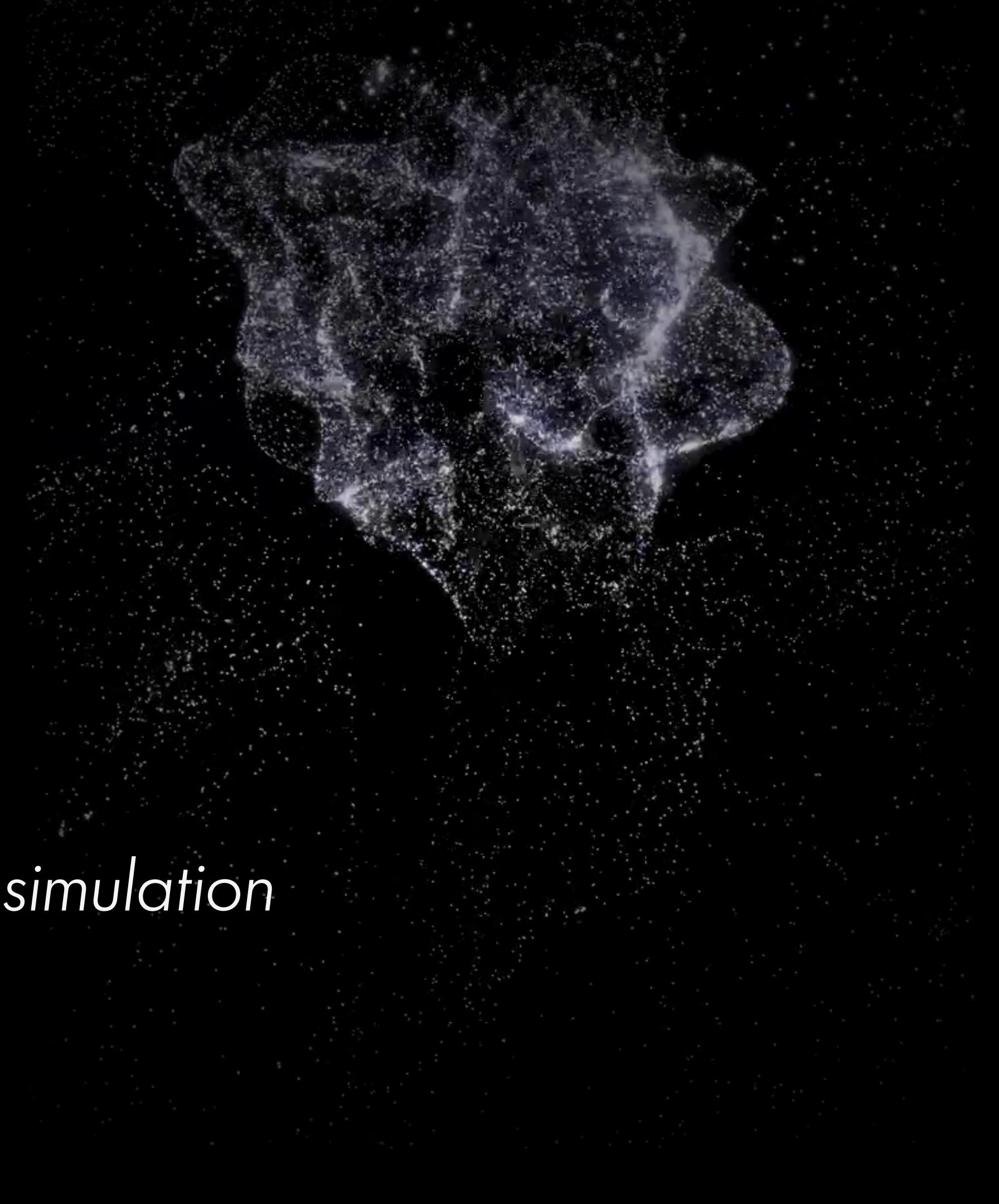




1ST TERM PROJECT

MARIA JENDE

Web-Based Particle Rollercoaster



Final Product: Interactive web experience

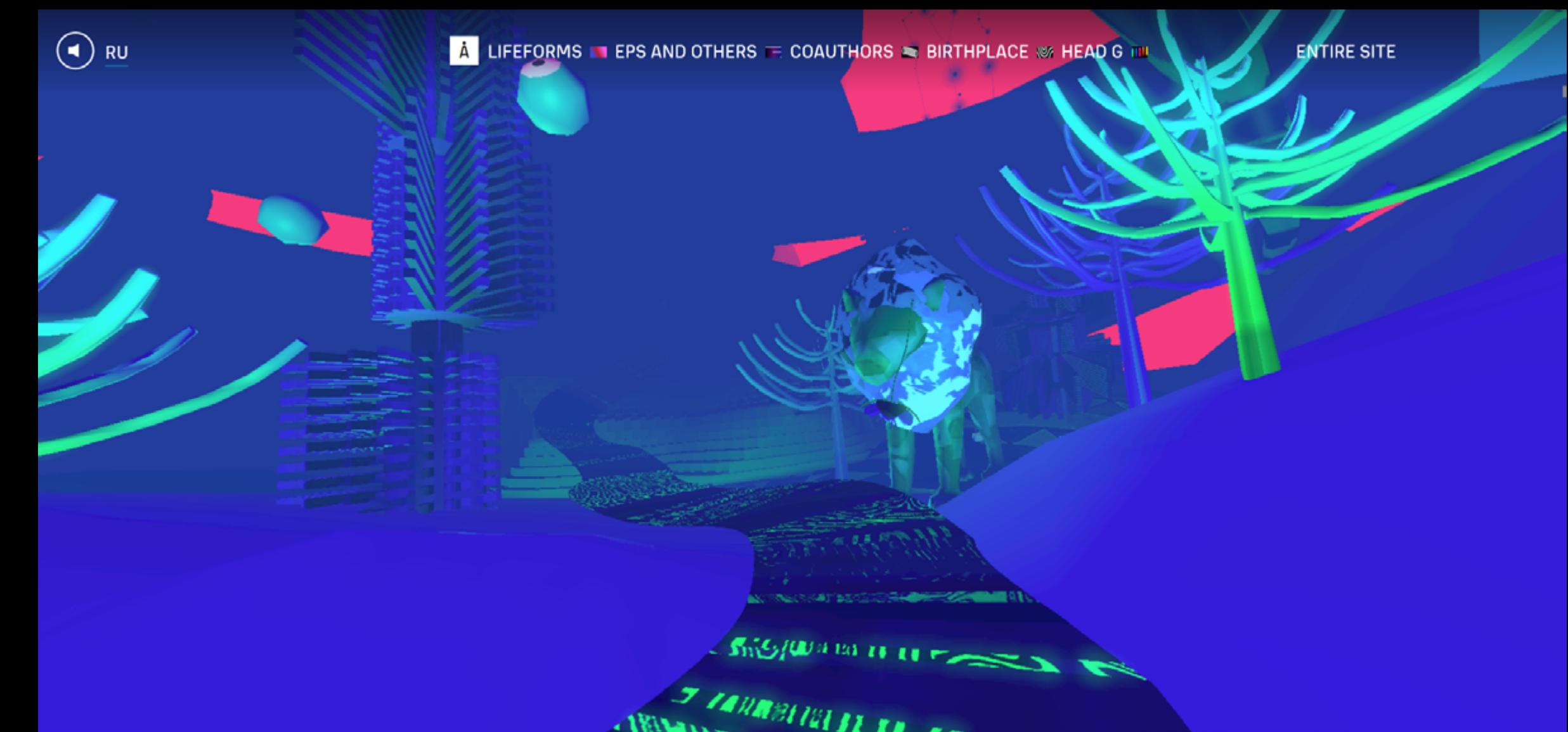
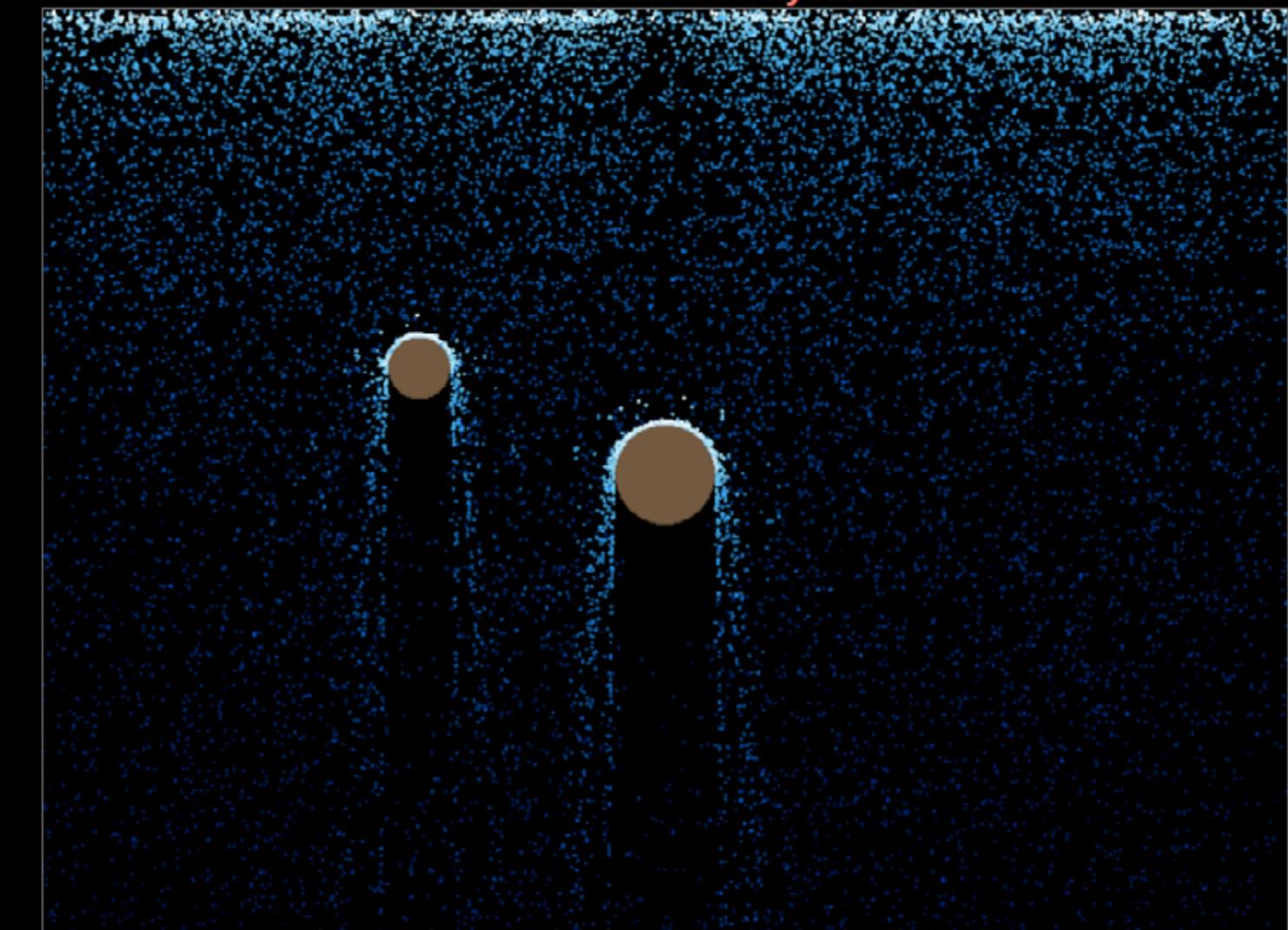
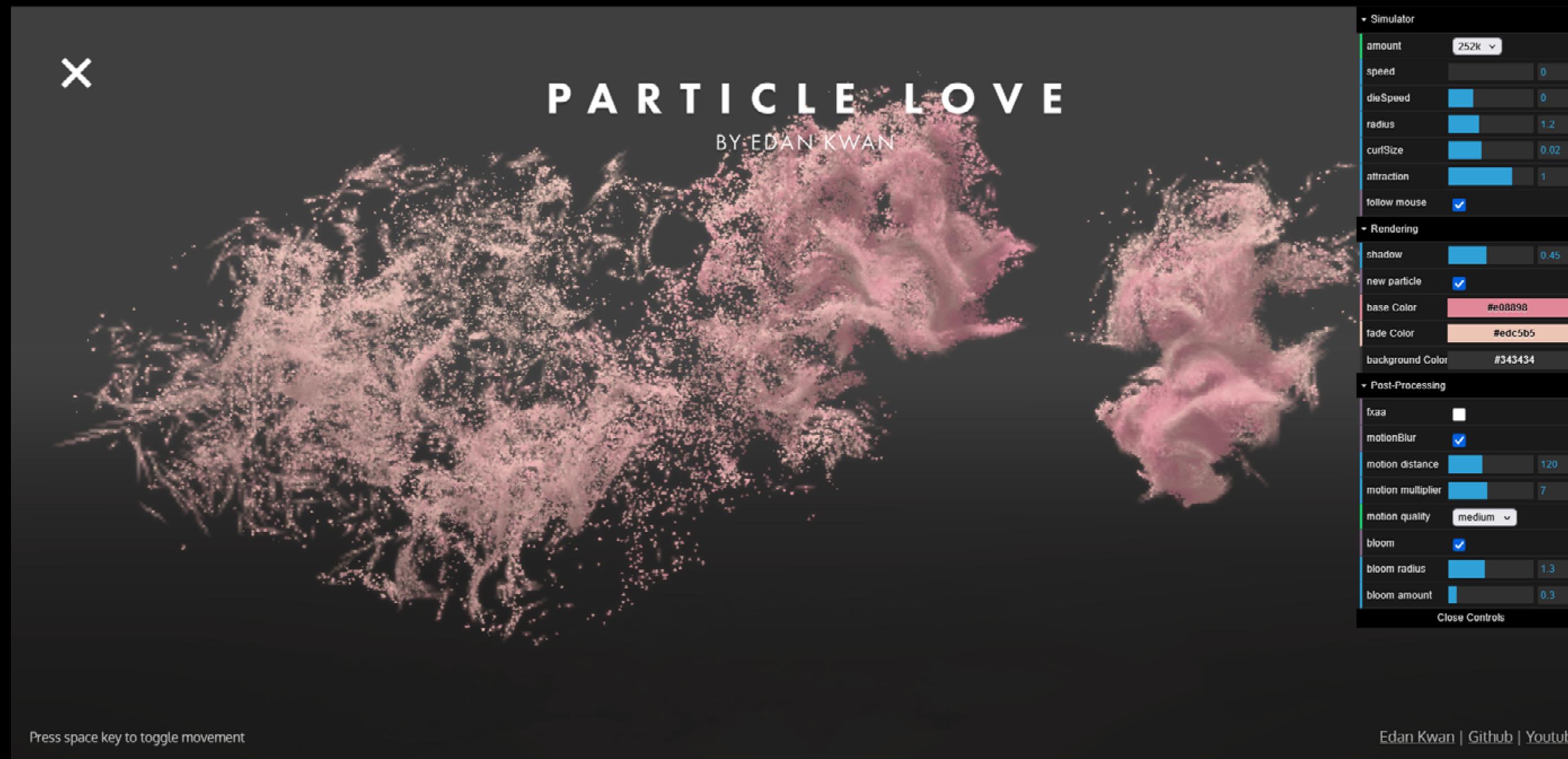
Tool: Three.js

Concept: Rollercoaster-like pathway with evolving particles

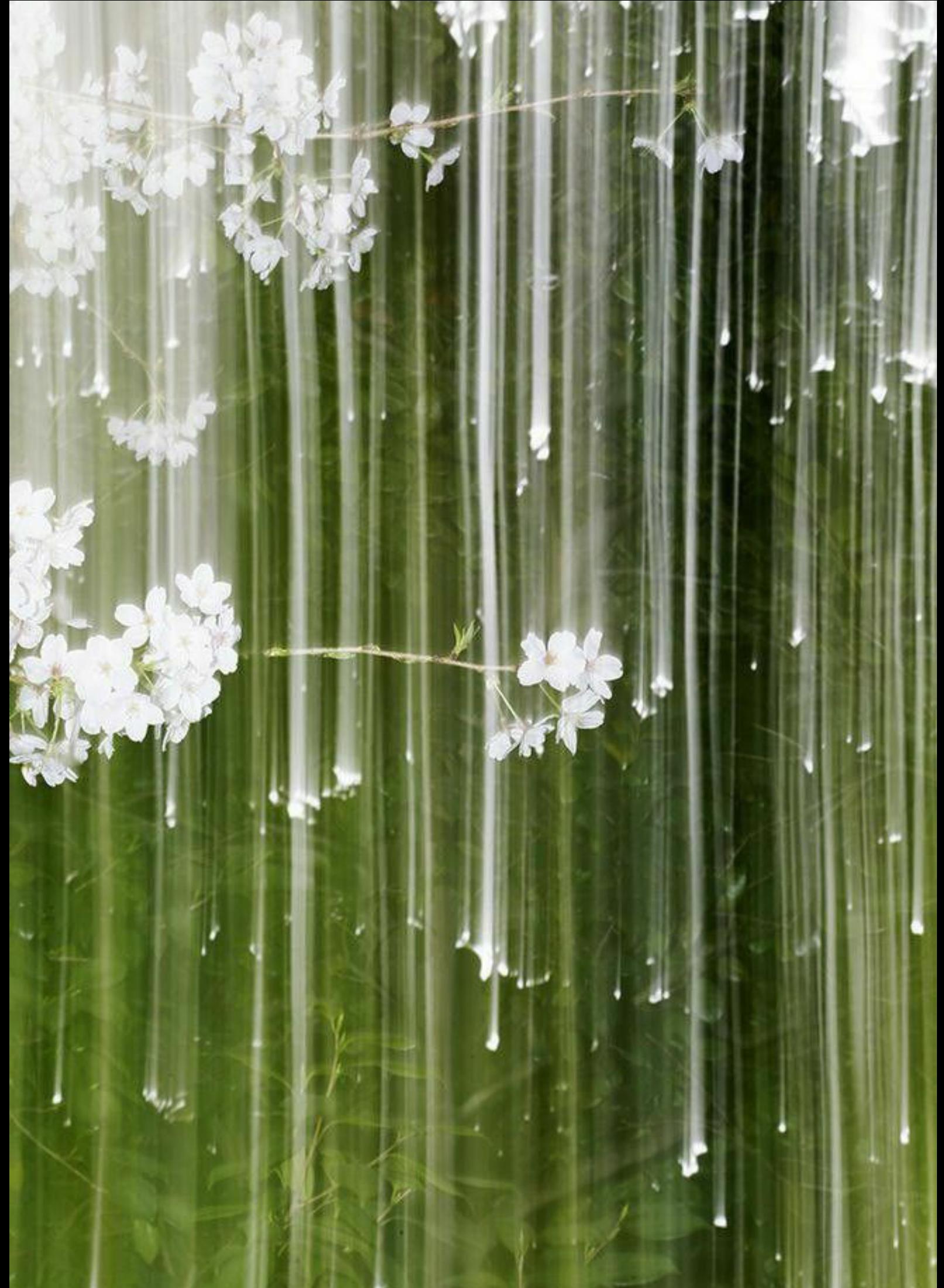
Motivation: Learn creative coding and the basics of particle simulation

The Project

WebGL Particle Physics



References



Moods



PARAMETERS FOR SCALING

- *Length of the experience*
- *Level of interactivity*
- *Complexity and variety of the particle simulation*

NICE TO HAVE

- *Particles forming actual shapes (e.g. flower, wave)*
- *Possibility to send a message to your future self at the end of the experience*

Scope

WORST CASE

(Interactive) web-based particle simulator with parameter controls

MIDDLE GROUND

Pathway experience with particles evolving along the way

BEST CASE

- + *Interactive particles, particles forming shapes*
- + *Message functionality at the end*

Scope



January	CW 2	<i>Theoretical research, simple p5.js particle tests</i>
	CW 3	<i>Starting with Three.js and web implementation</i>
	CW 4	<i>Three.js particle tests</i>
	CW 5	<i>Goal: test website with basic particle simulation / redefinition of final product</i>
February	CW 6-9	<i>Implementation of rollercoaster function (interactivity)</i>
		<i>Varying particle behaviour along the pathway</i>
March	CW 10-11	<i>Buffer or nice-to-haves</i>
	15/03/2025	<i>Project deadline</i>

Time Schedule