

A photograph of a train moving at night. The train is blurred, suggesting motion, and its interior lights are glowing. In the foreground, there are street lamps with two glowing globes. The background shows a city skyline with several tall buildings under a dark sky.

# Tracking Trains

Measuring something about trains.



# Intro

- This project is about trains.
- It is about why we need rails for trains, other than the fact that trains may not have steering wheels.
- No trains were wrecked in the process.



A photograph of a railway track curving to the right. The tracks are made of metal rails on wooden sleepers, set on a bed of gravel. In the background, there is a fence made of vertical posts and a body of water under a clear sky. The lighting suggests it might be late afternoon or early morning.

# Hypothesis!!!

My hypothesis is that a train's cars will always swerve if unconnected and off the track. The reason for this is to answer the question of 'why do we need rails for trains?'

# How This Will Be Carried Out

First off, there will be no train torture. I am using small, homemade trains, made out of cardboard. I am launching them with a rubber band.



# Data

1. 1in x 4in: a lot of swerving
2. 1in x 3in: not much swerving
3. 0.5in x 3in: a lot of swerving

1



The 3 trains

The launcher

2



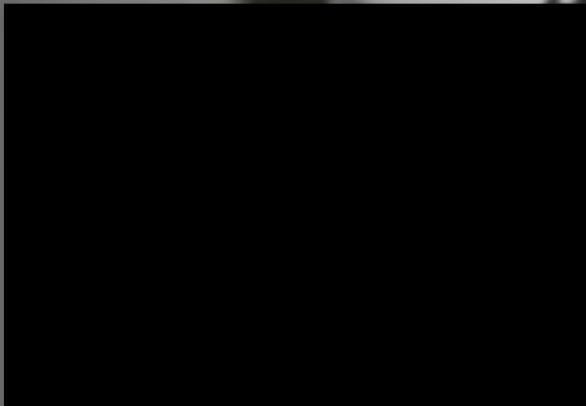
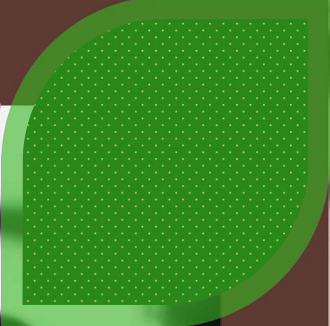
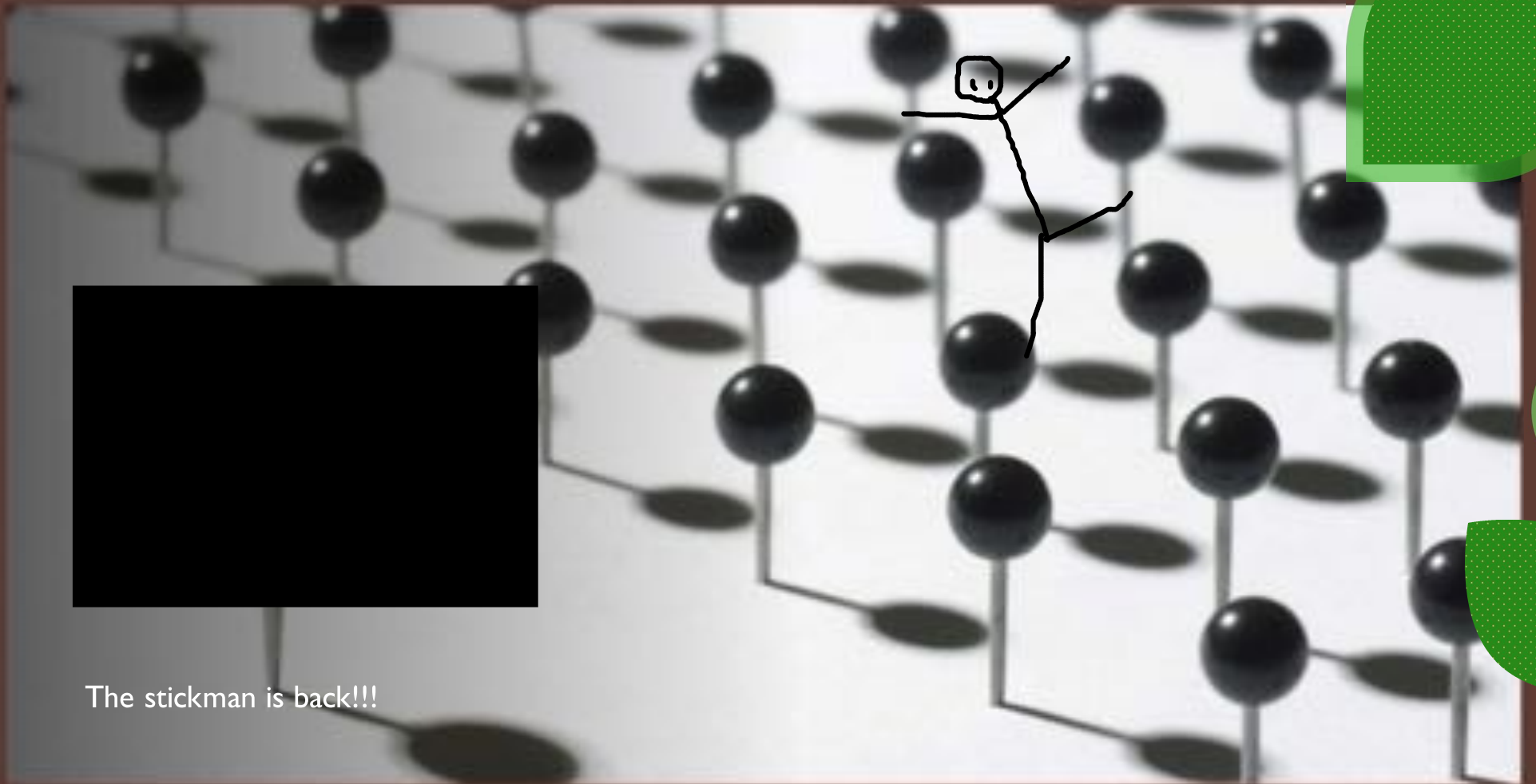
3



# This means...

What I guess this means is that swerving does depend on something, and the something is the length of the train. If you want a no-rail train, use shorter cars.





The stickman is back!!!