22.Tightrope walk

1.Introduction

Have you ever been to a circus performance?

What kind of performances which pique your interest?

Is it an animal riding a bike or a clown dropping the ball...

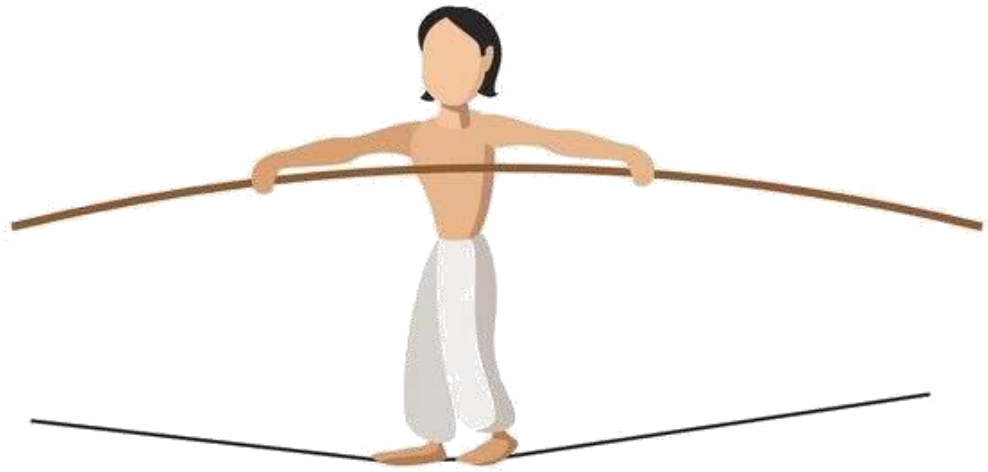


1.Introduction

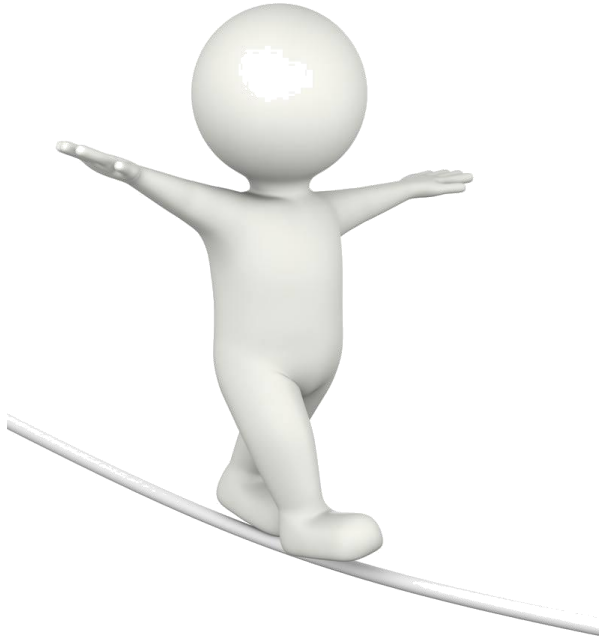
The tightrope walk is the most thrilling in the circus.

You will see a clown holding a long stick and walking on thin ropes.

But it can always keep the balance and not fall off.



2.Exploration



How do they keep their balance?

We can observe that the tightrope walker will have a long stick in his hand, its role is to maintain balance.

In fact, we can also have a balancing effect by stretching our hands out.

2.Exploration



Next, let's explore the long stick.

Can it be a stick of any material?

In fact, the purpose of using the stick is to adjust the center of gravity.

So, it has to be heavy enough, not a very light stick.

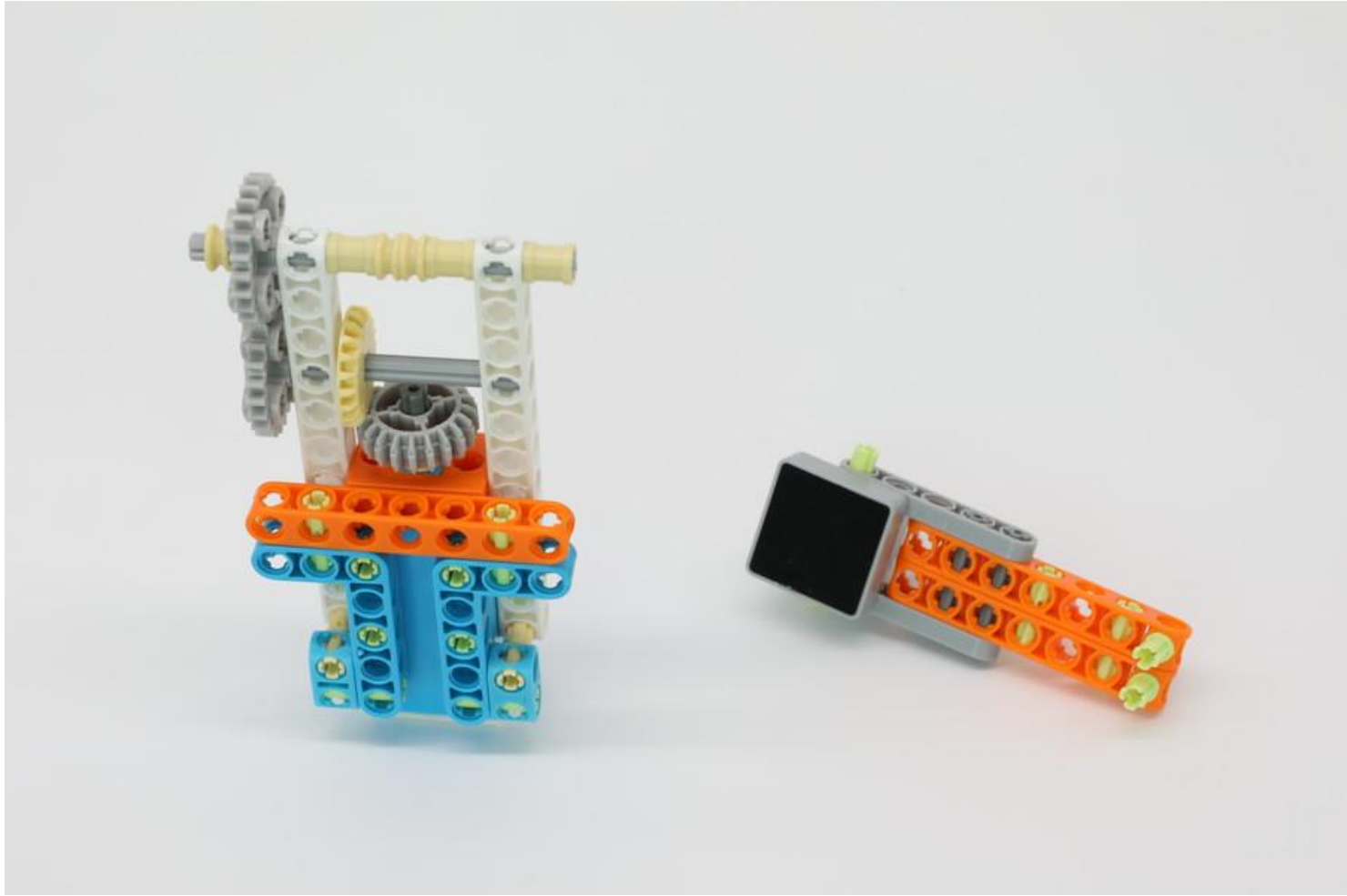
This is the principle of the balance figurines we buy in the store.

3.Construction

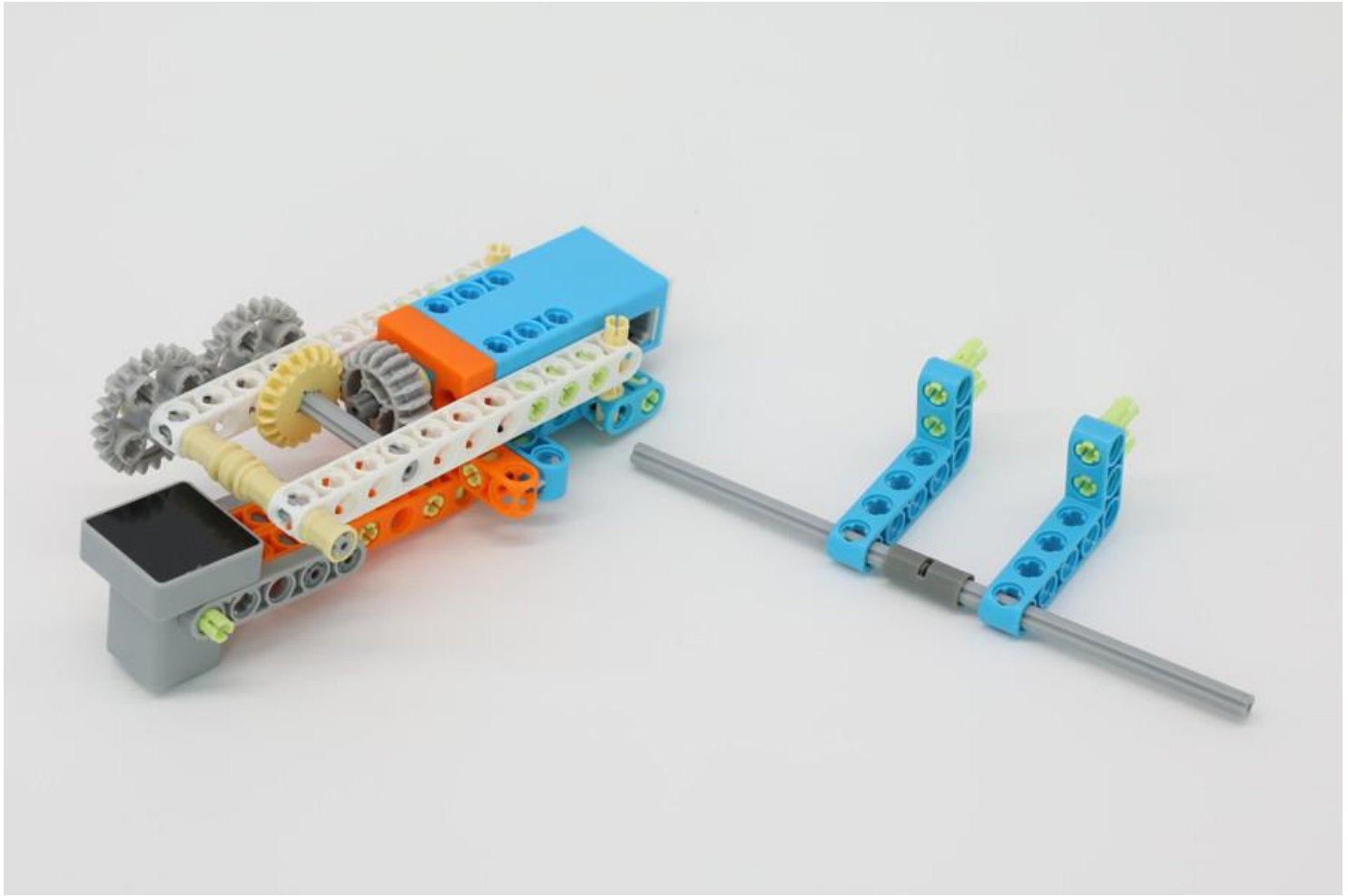


In order to install the motor on the clown, we still use the transmission structure of the bevel gear.

3.Construction



3.Construction



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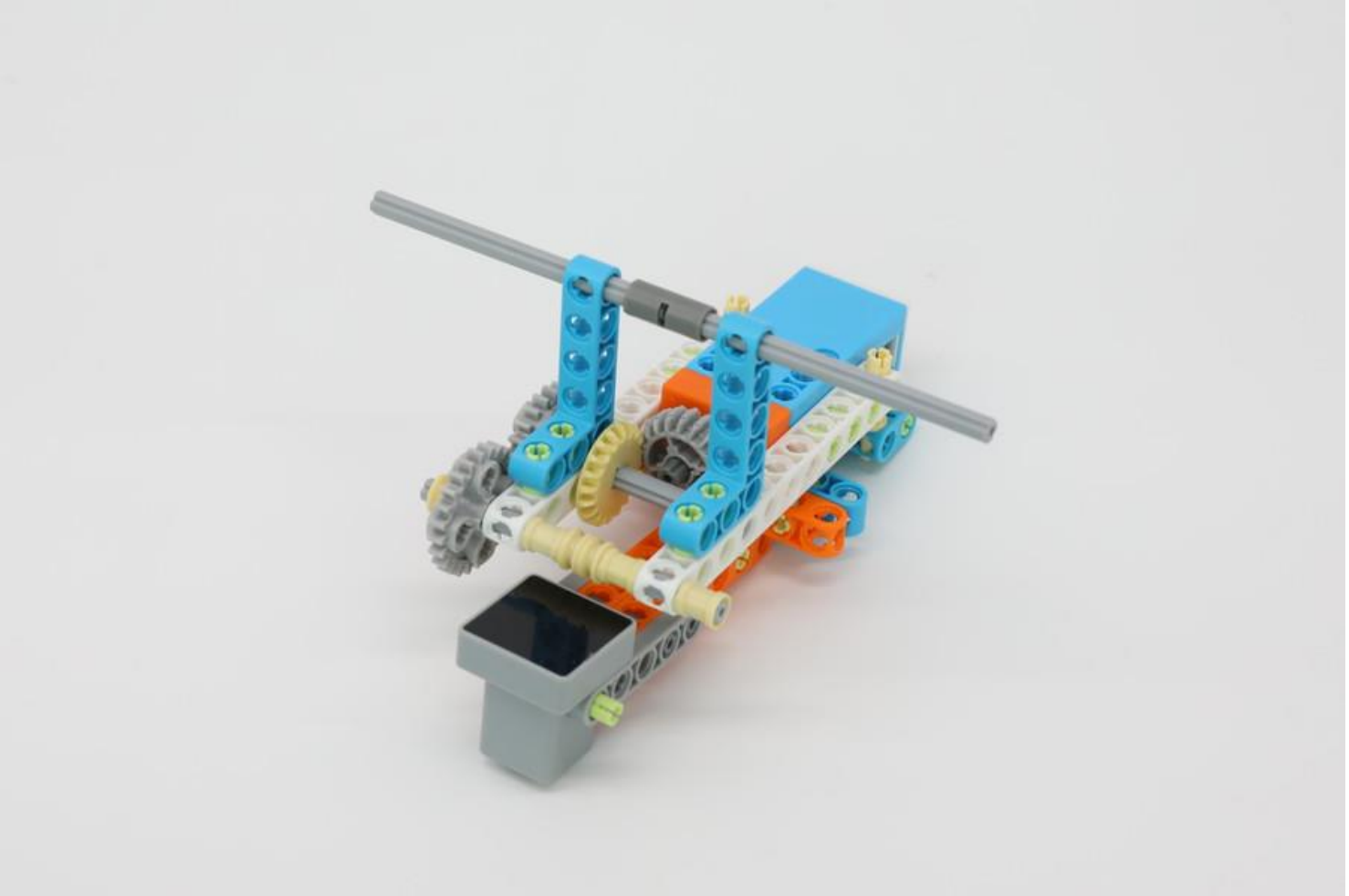

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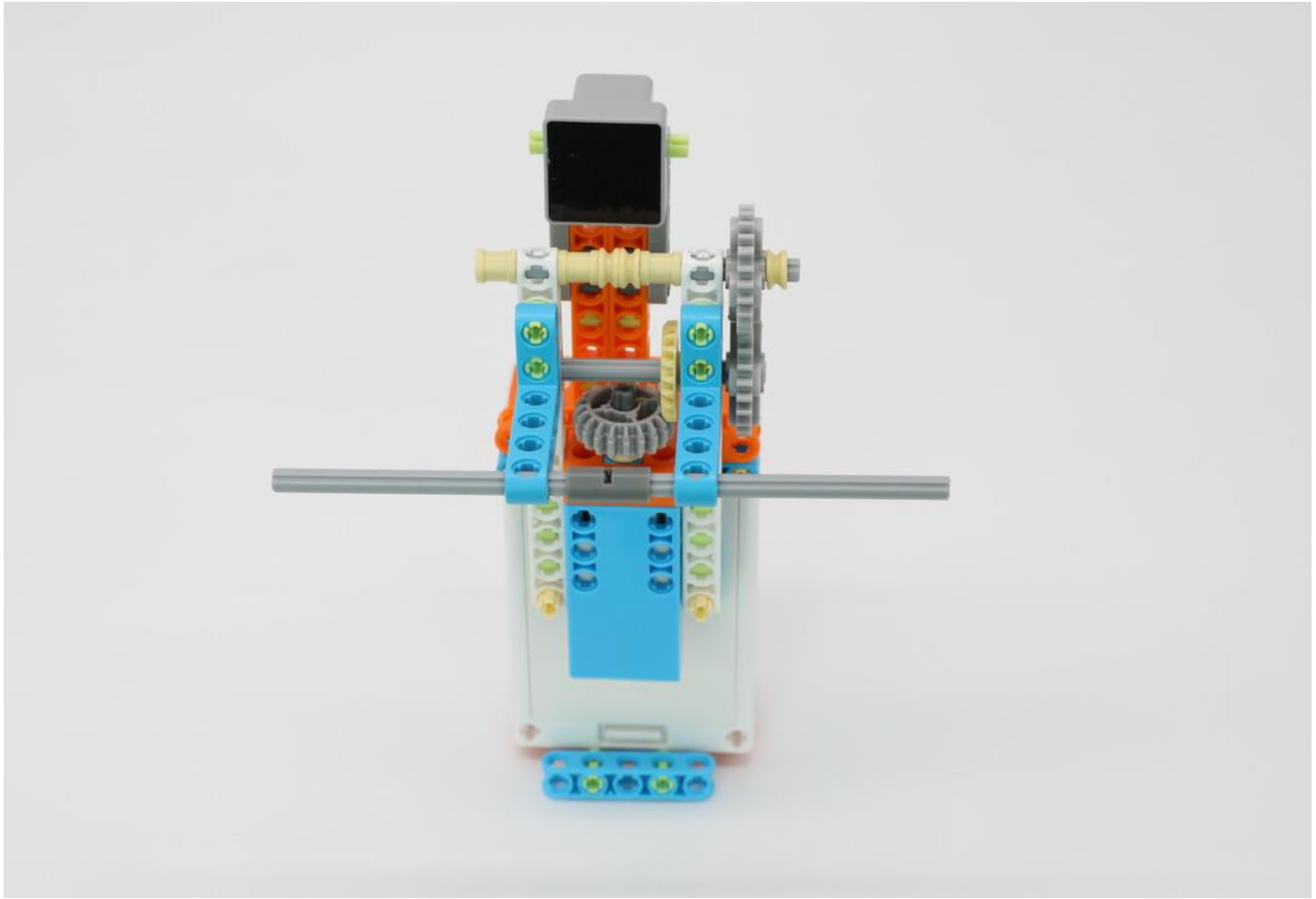
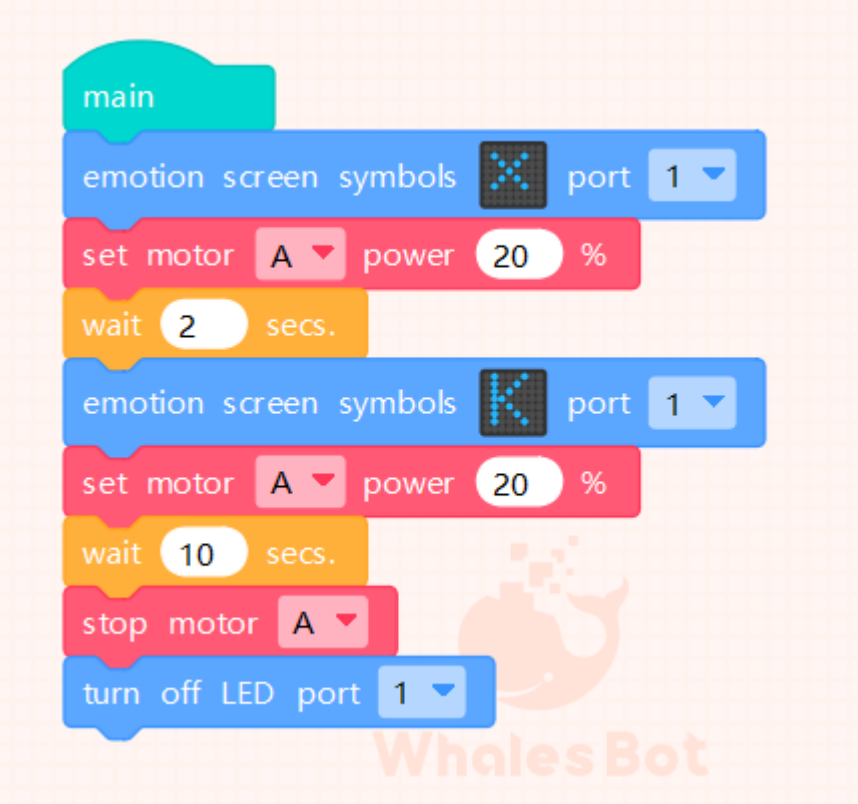


4.Coding



Task 1:

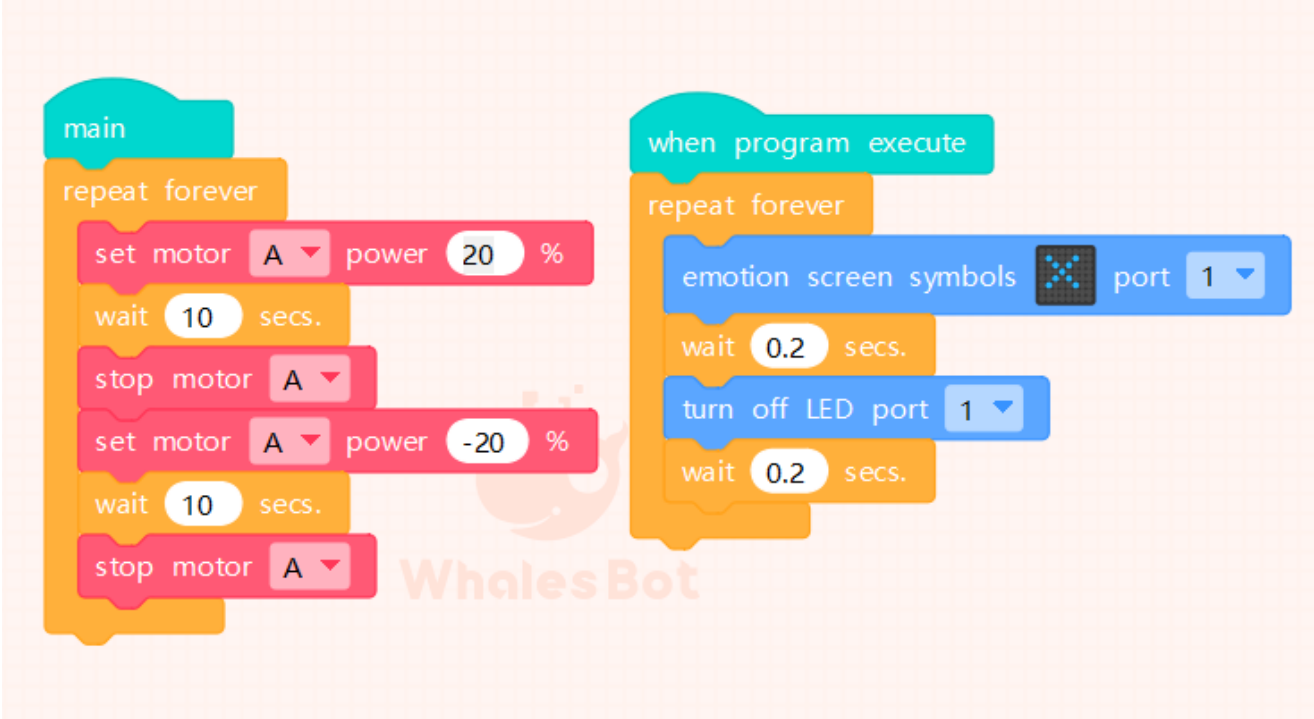
Let's make the clown move and make different expressions.



4.Coding

Task 2:

Let the clown change different expressions while walking the tightrope.

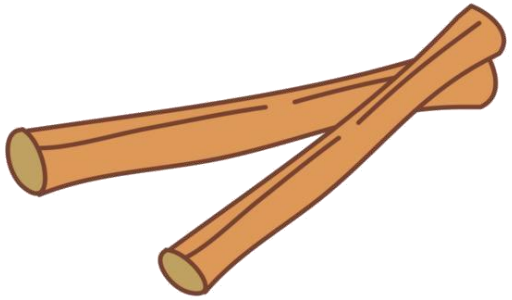




5.Evaluation

Do you remember how tightrope walkers keep their balance?

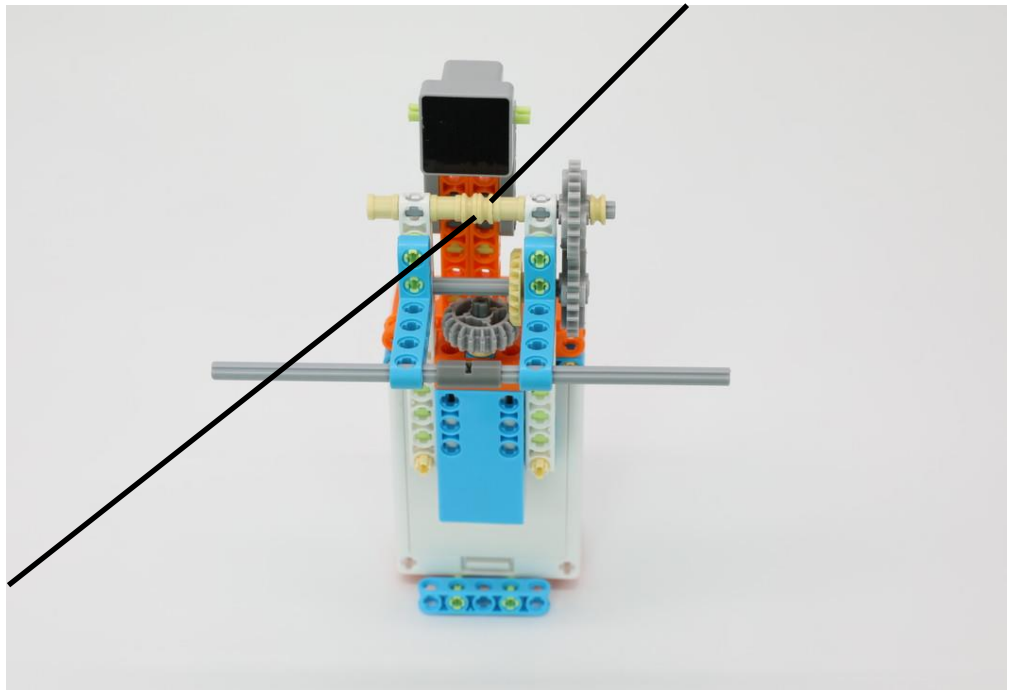
Which material do you think the clown holds in his hand will keep his balance. why?







6.Challenge



Let's pass the rope through the pulley on the clown's hand and start walking.