

A BRIDGE ROBOT ADVENTURE



THE CASE
OF THE
MYSTERIOUS
MISSING
BRIDGE!

STUART NIELSEN






Dedicated to Betty!



Check out all my books at Bridgerobots.com!



Emma and Maggie
have just left Brunel6
and are going home.

A yellow rocket ship with three blue circular windows is flying through space. It has black fins and a red section near the nose. In the foreground, three white, irregularly shaped asteroids are moving towards the right, leaving white trails behind them. The background is a dark blue space filled with many small white stars.

Emma!
Look out!



Crash!

Emma and Maggie have
crashed on Planet Ørken Bro!





Emma we have to
get out of here!

That should
help your leg.
We were really
lucky to survive
the crash.



Emma, look somebody
is coming to help!



RCMP

Royal Conde (McCullough)
Mounted Police



Greetings!



You are
under arrest!

You stole our only bridge.

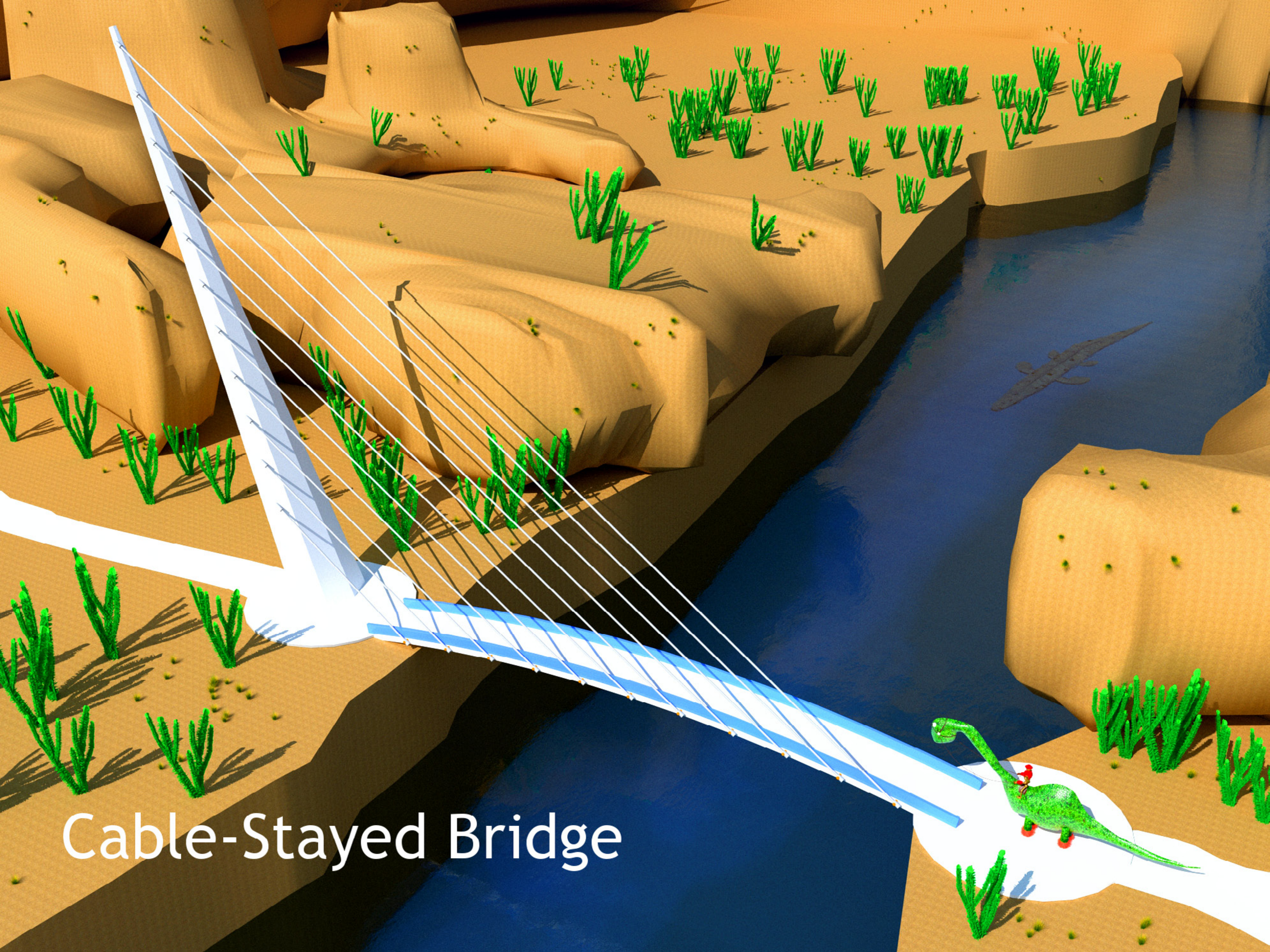
Without it we are cut off
from our homes.



We didn't steal
a bridge!

The bridge was there.

You showed up and now
it is missing!



Cable-Stayed Bridge

Gone!



Emma we have to
find the stolen
bridge.

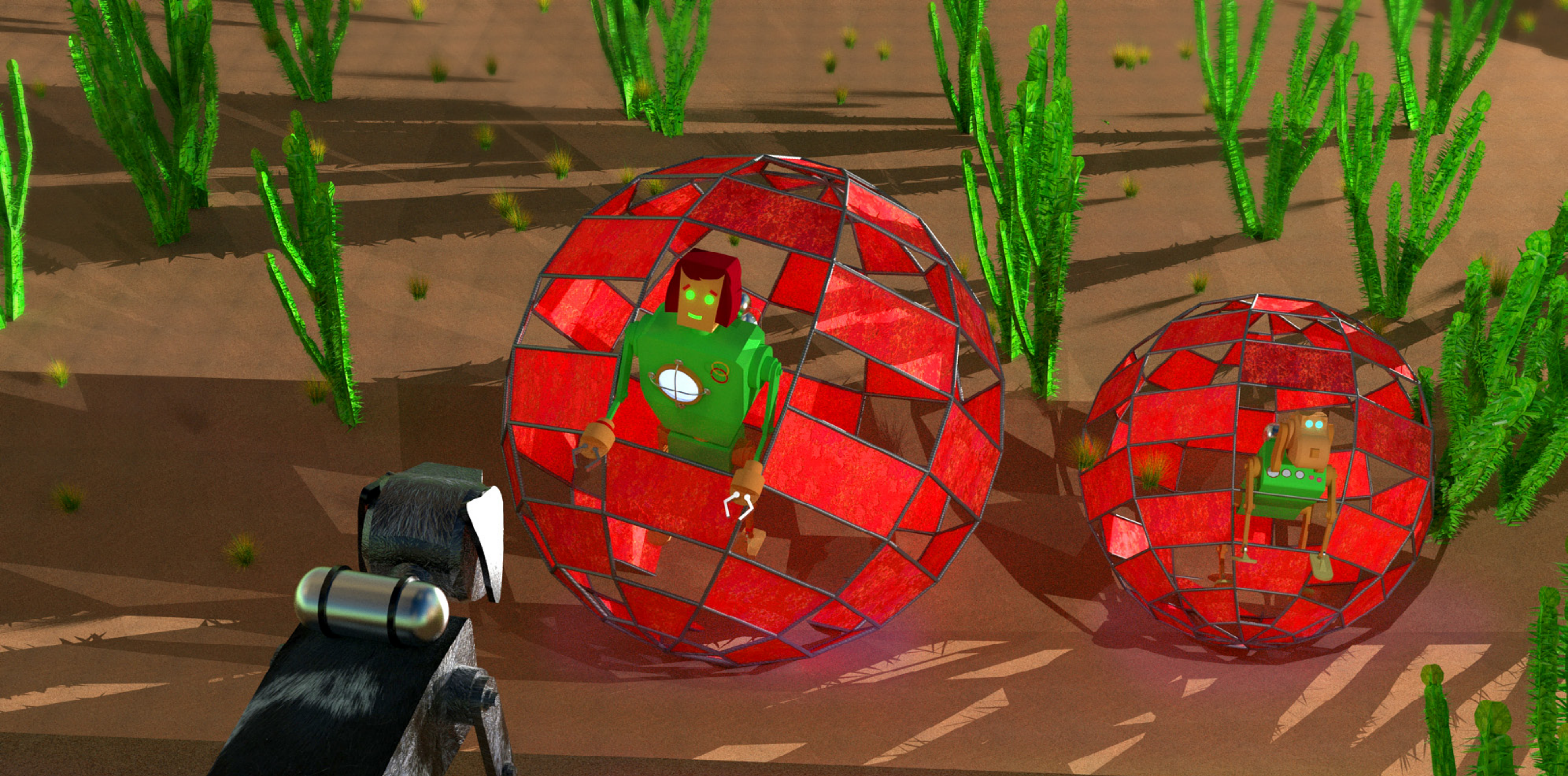


If we can find the
missing bridge we can
prove we are innocent.

When it gets dark we
will try to escape and
go look for it.

Somebody is pushing
us down the hill!





Emma look,
it's Betty!

It's great to see you
Betty, but what are
you doing here?



A 3D rendered robot with a yellow face, green eyes, and a black visor. It has a metallic, industrial body with a large circular window on its chest showing internal gears. The robot is holding a flaming torch in its right hand. The background is a dark, blue and purple sky over a dark, rocky ground.

The Ingeniør!

Do you remember
the ingenior.

I have been chasing
his brother around
the galaxy.

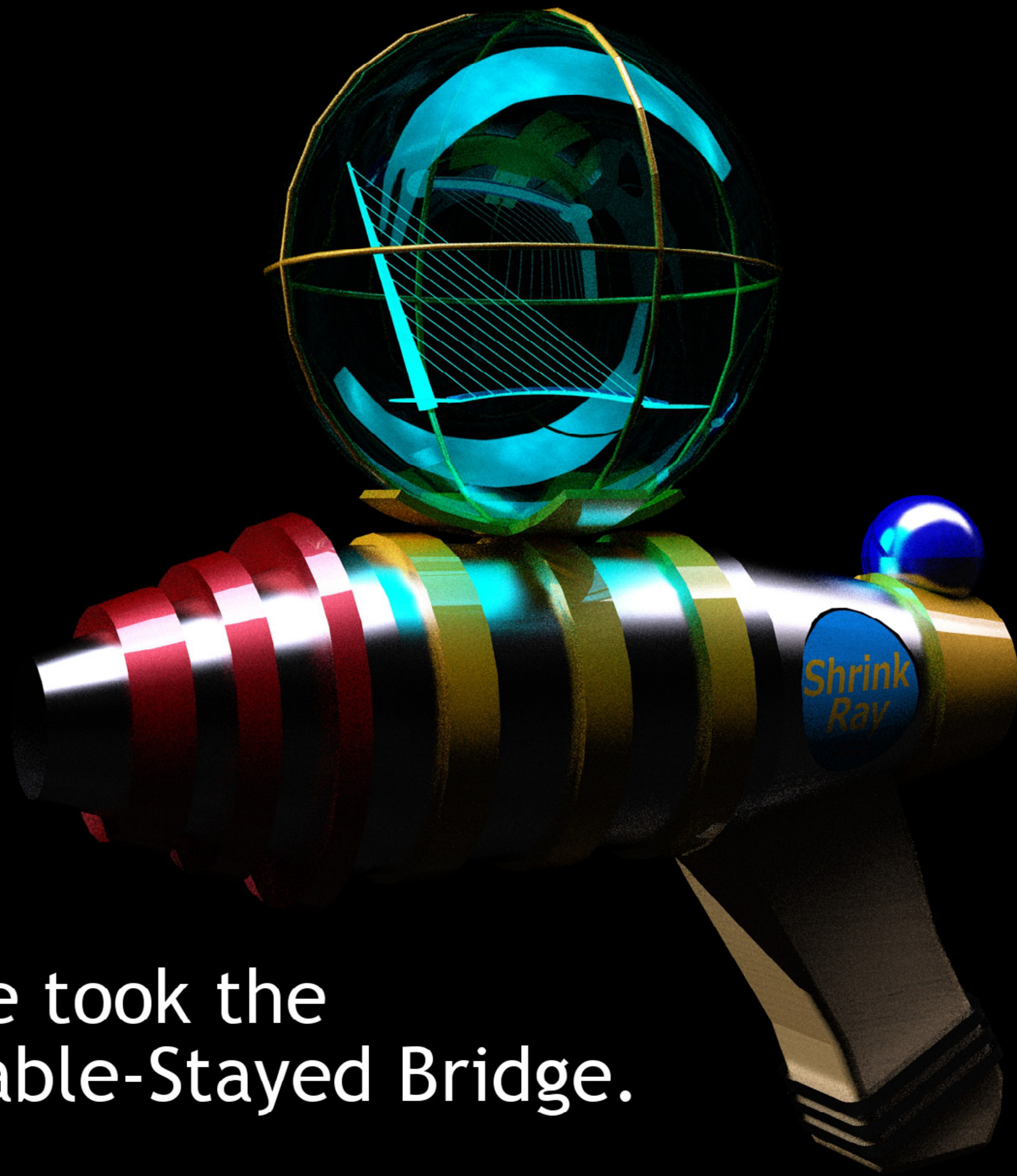
The

Arkitekt!

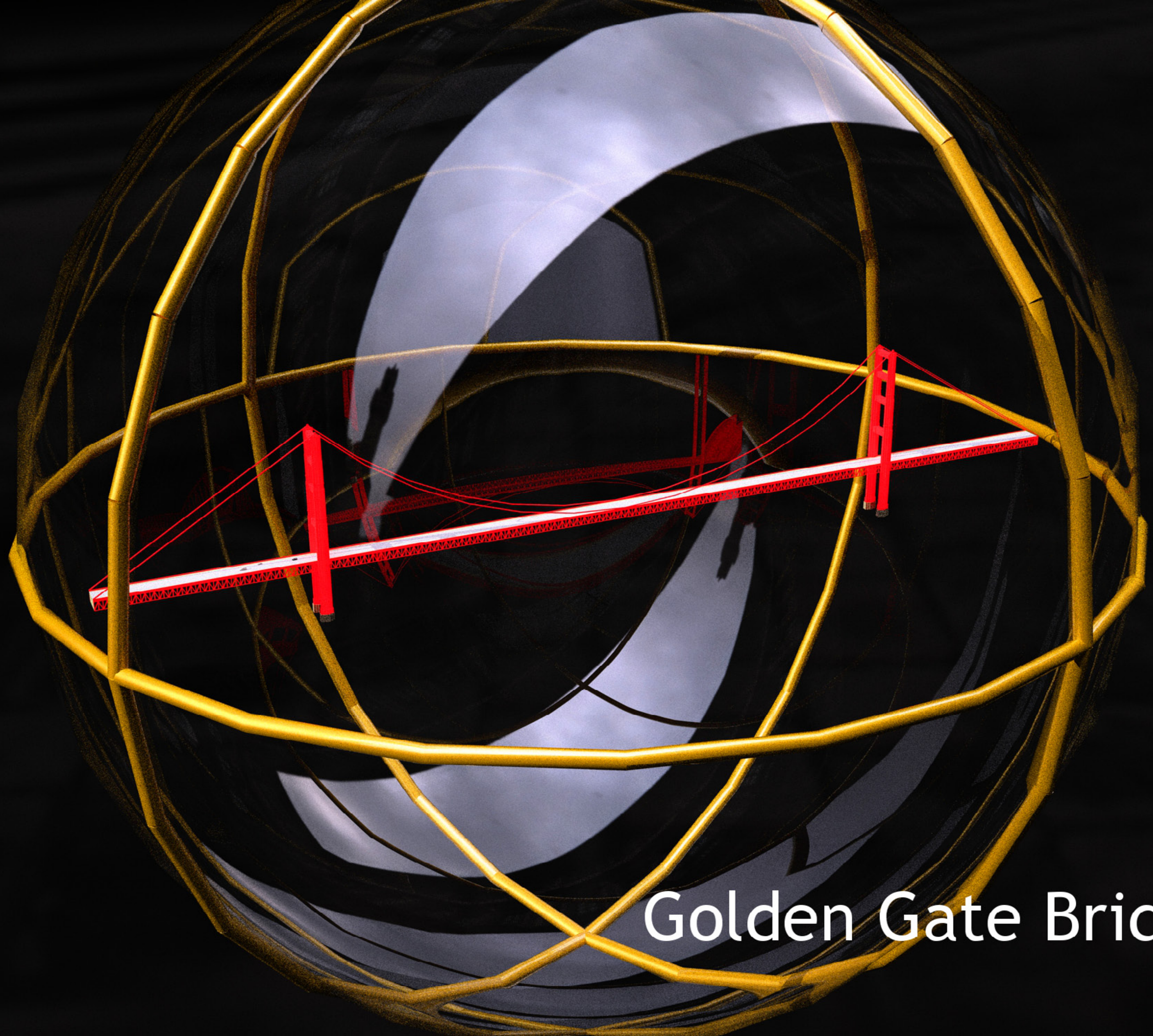




He uses a shrink ray to collect bridges throughout the Galaxy.



He took the
Cable-Stayed Bridge.

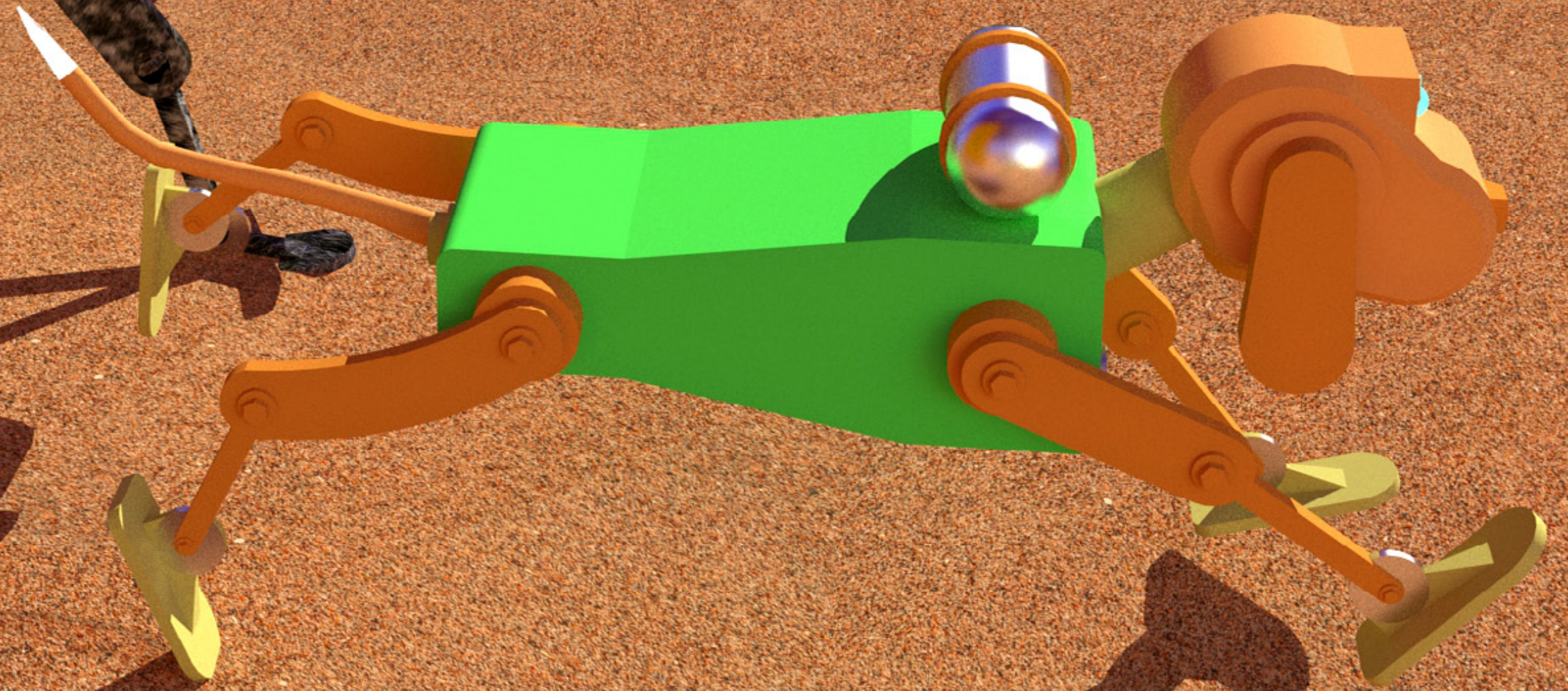
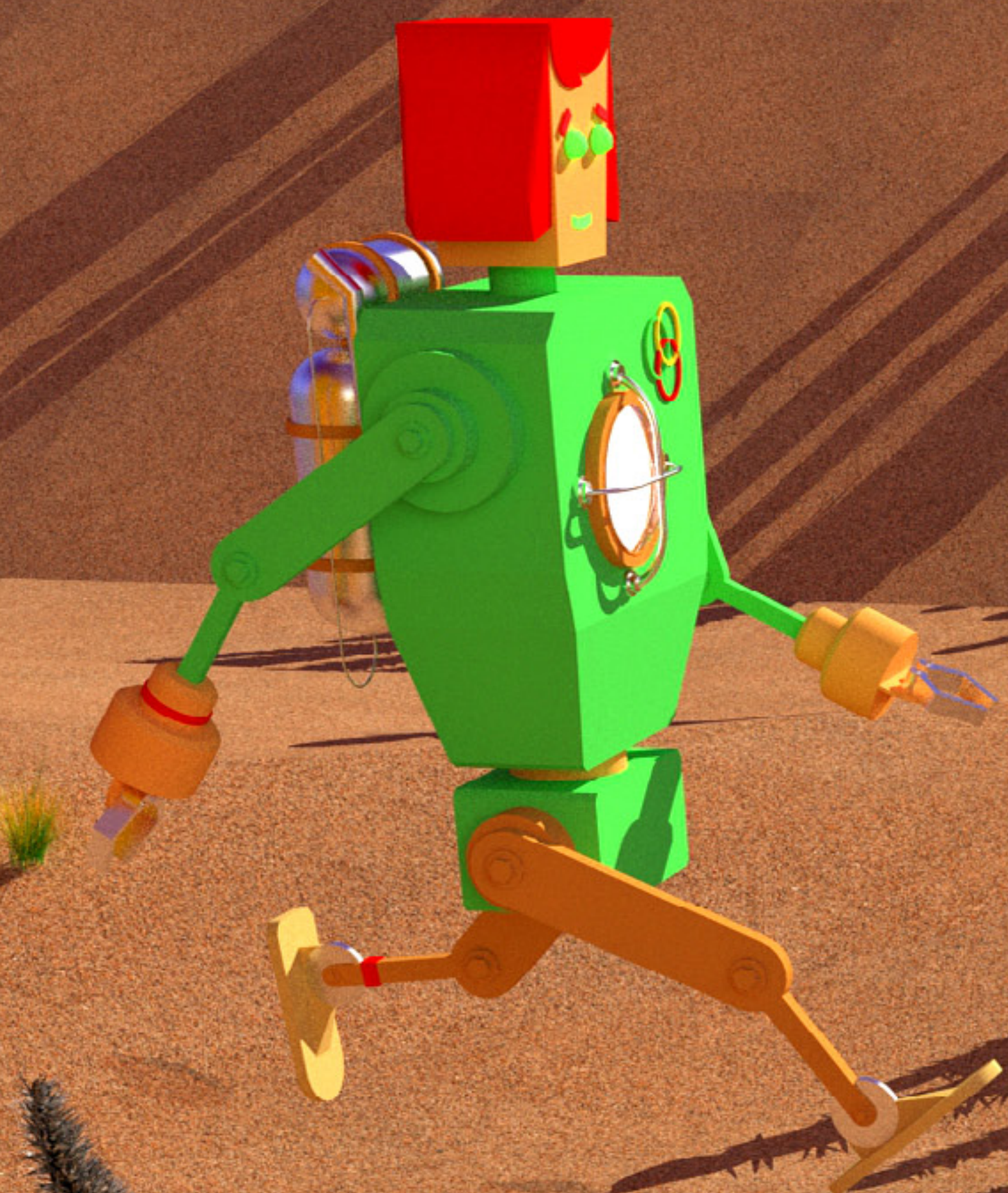


Golden Gate Bridge



London Tower Bridge

We should get to my spaceship before the RCMP catch us!



It's a Hardy
Cross Mark VII





Zap!

The Arkitekt is shrinking Betty's spaceship!

Ha Ha

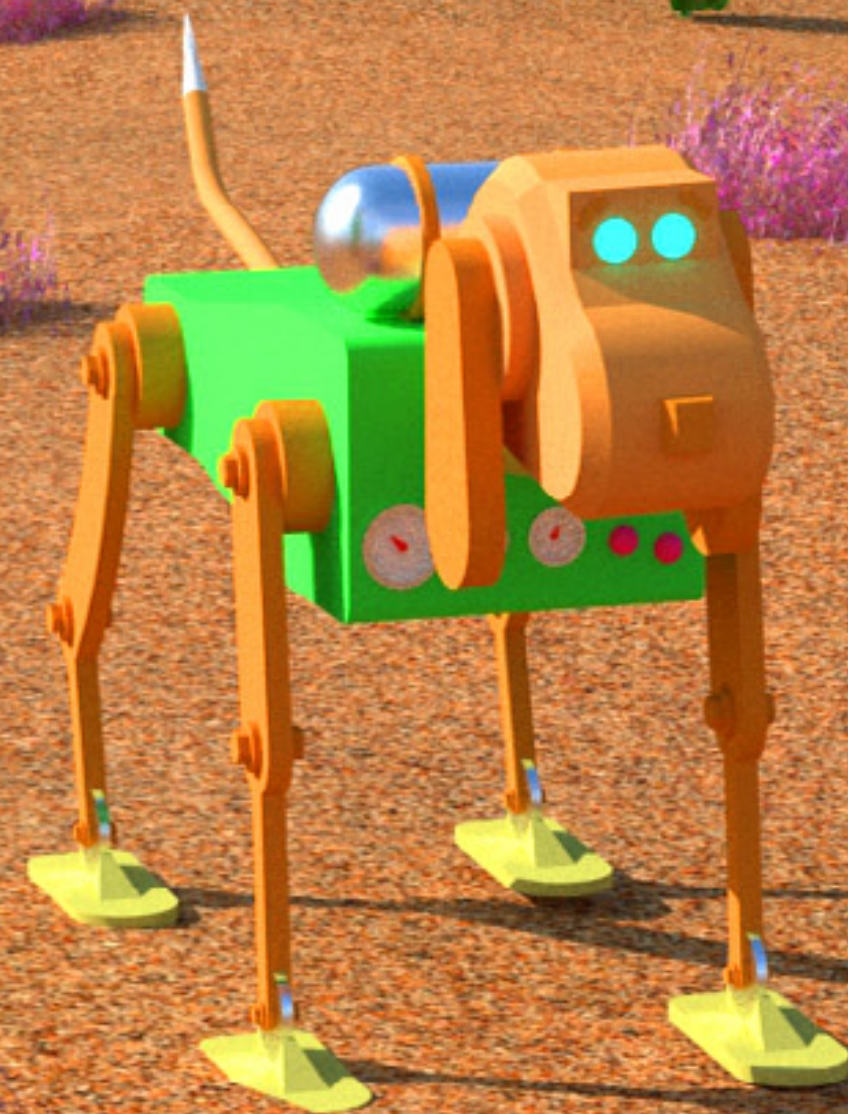
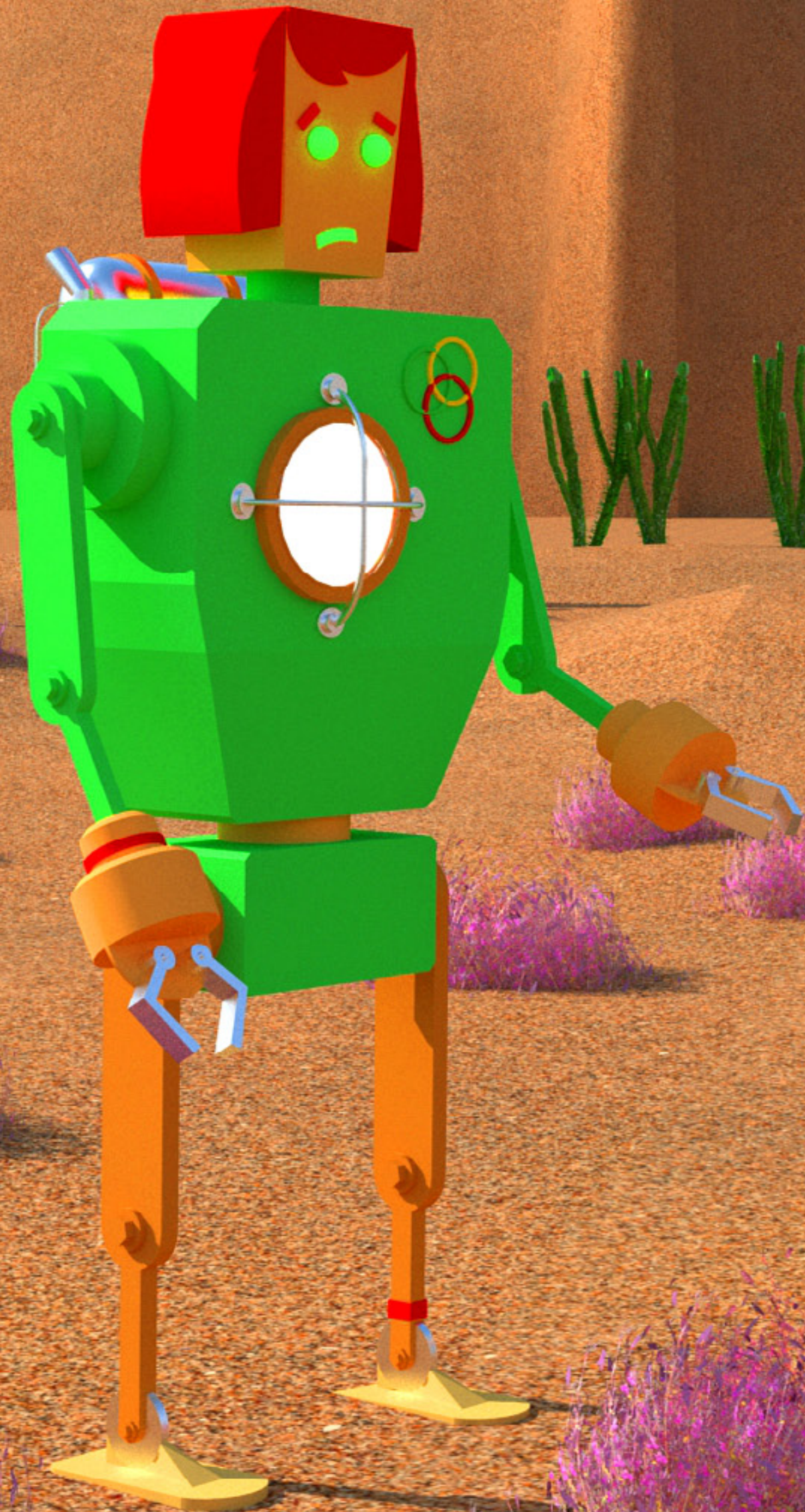
Ha Ha

Ha Ha

Now the RCMP
will get you!



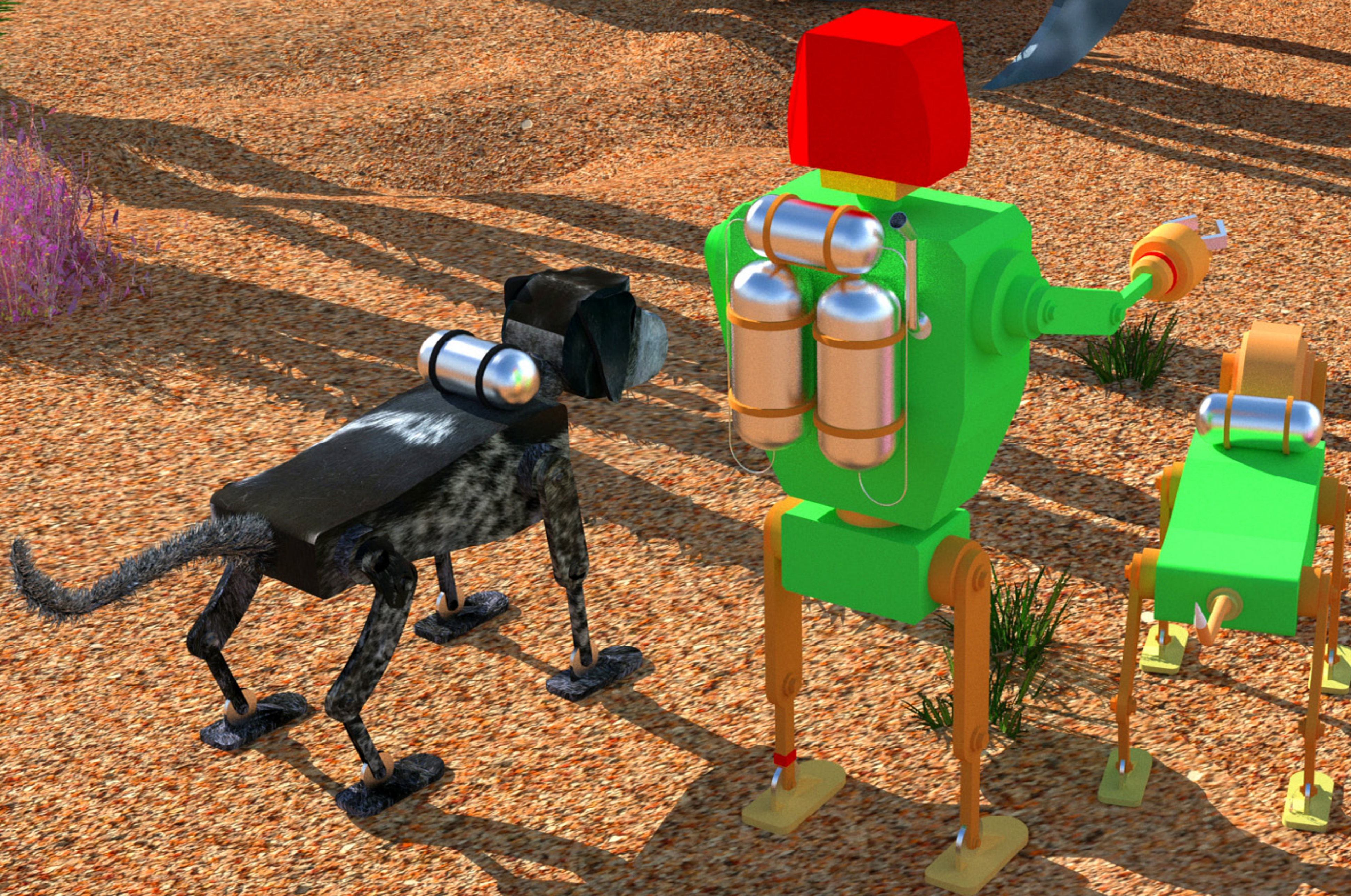
Betty, your ship
is gone! Now
what do we do?



Let's go back to our
crash site. I have an
idea!



We can use parts from
our spaceship to build a
new bridge for the RCMP.



If we build the RCMP a new bridge maybe they will believe we did not take their bridge and help us get home.

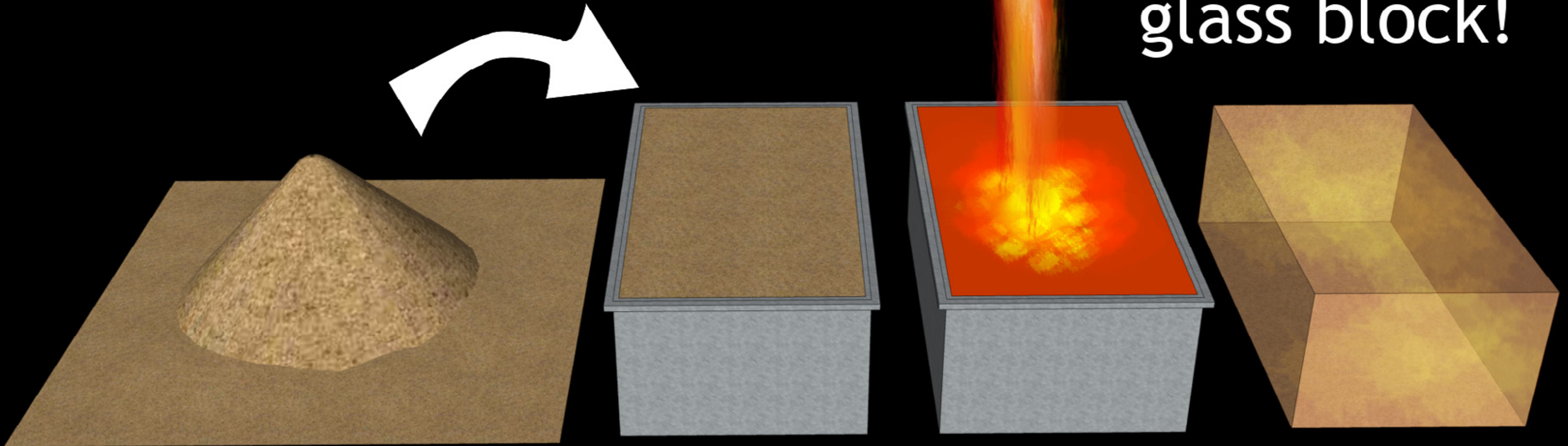
I think we can use the sand on this planet to make an Arch Bridge!

Making Glass Bridge Blocks

Take the sand and place it in a form.

Add intense heat to melt the sand!

Let cool and you have a glass block!

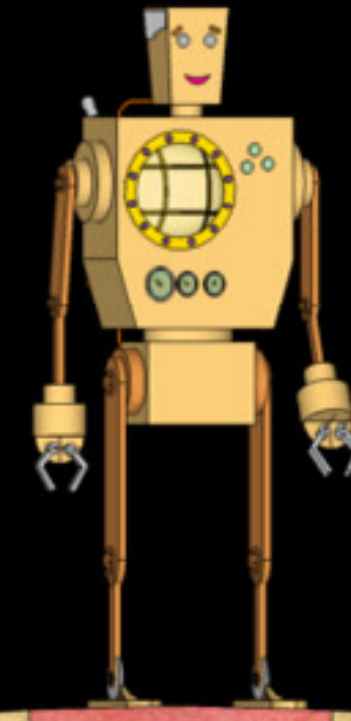




Glass Block Arch Bridge

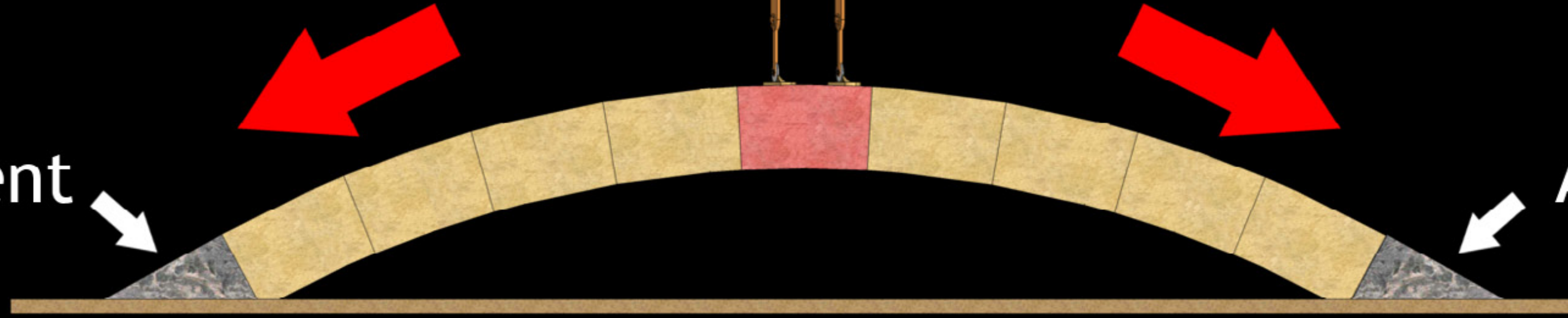
Loads from the Arch bridge go to the abutments.

Moving things like robots are called Live Loads.

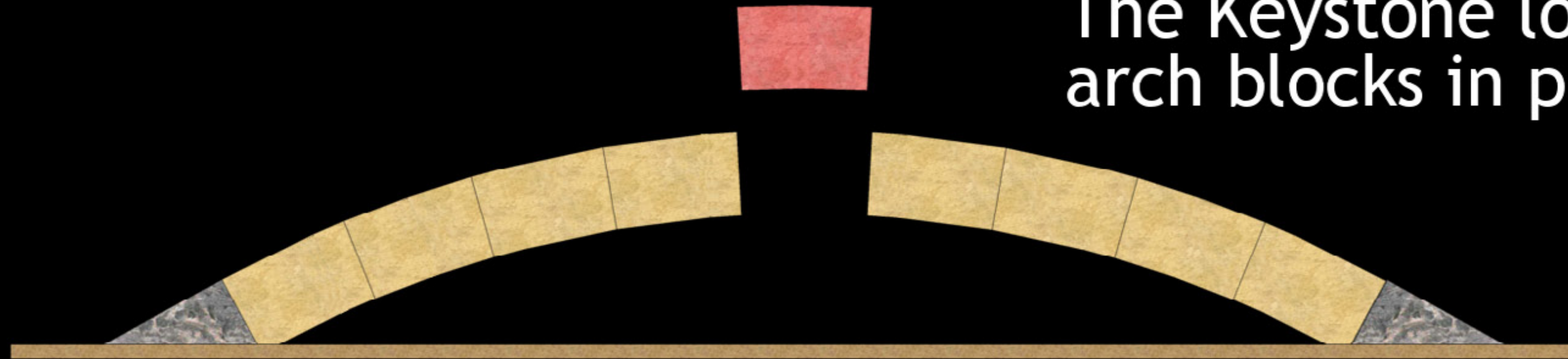


Abutment

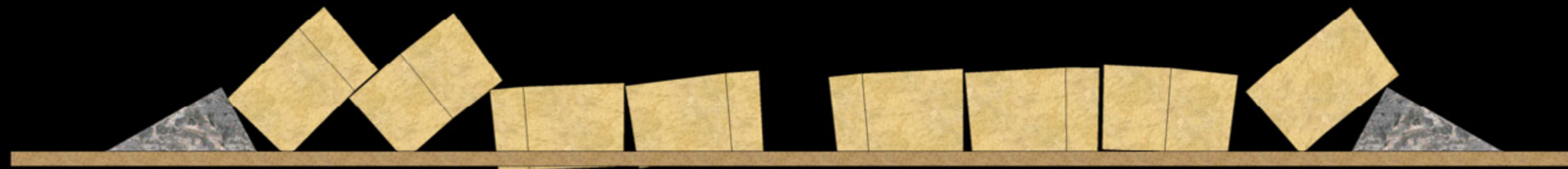
Abutment



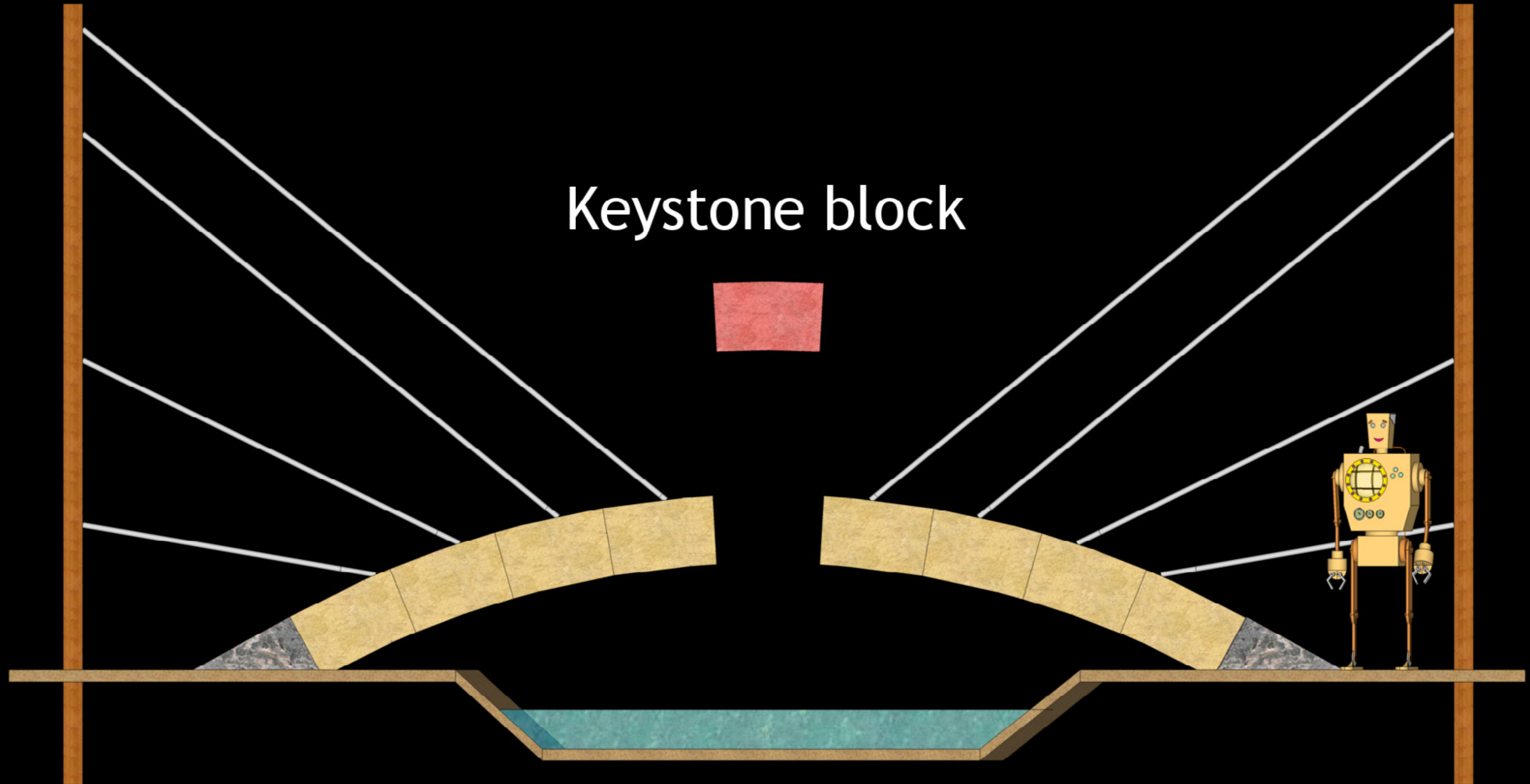
The Keystone locks the arch blocks in place.



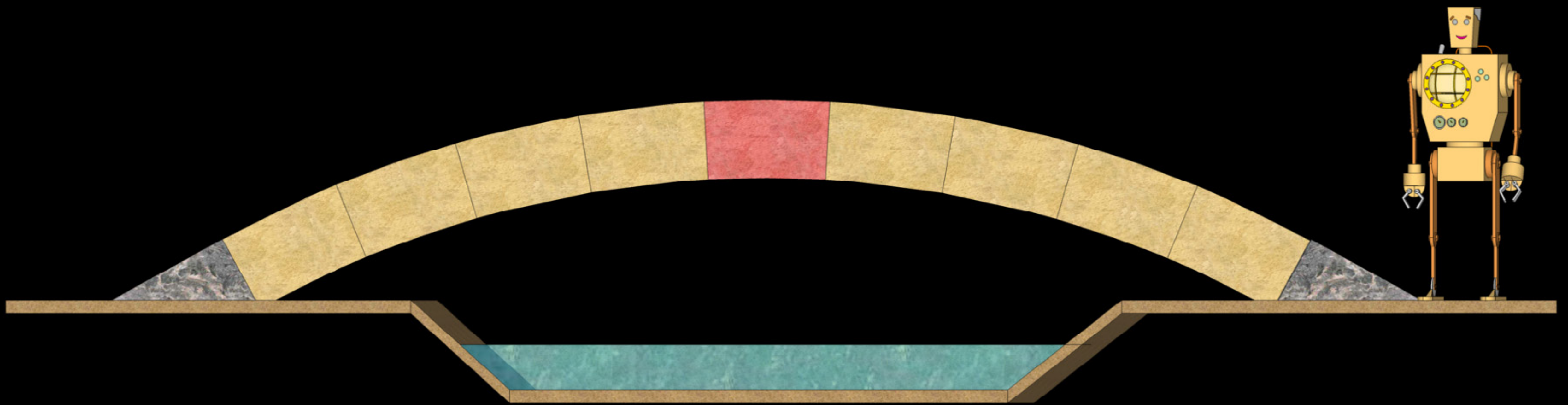
Without the Keystone the bridge falls down.



Since the bridge is over a river, we have to hold the blocks in place with cables until we can add the Keystone block.




When all the blocks are placed the bridge is finished!



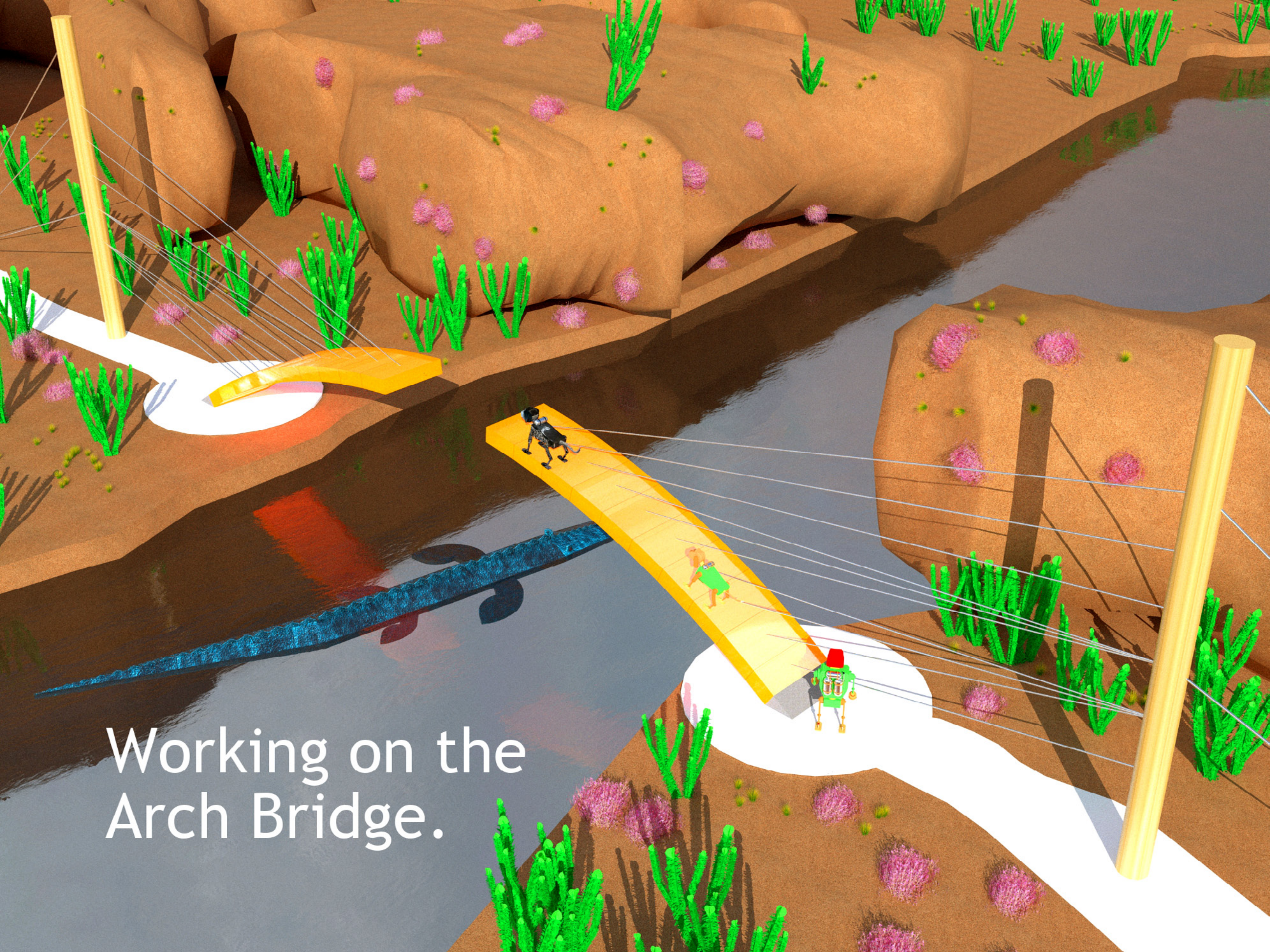
Arch Bridge



Which way to
the bridge?



Emma and Maggie place the tie back cables and poles to hold the blocks in place until the Keystone is added.



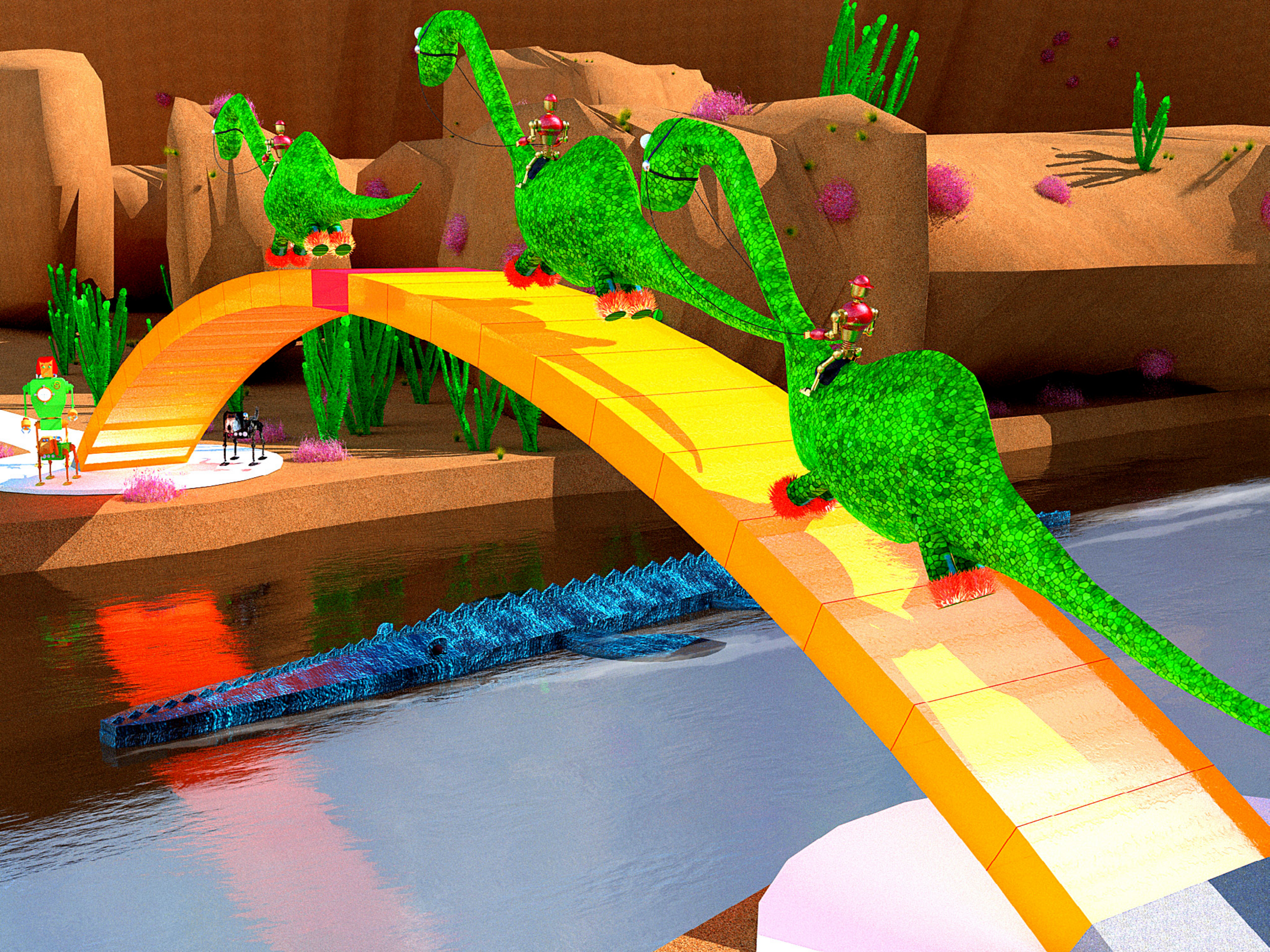
Working on the Arch Bridge.



Setting the
Keystone in place.

I hope they like the bridge.







We like the bridge.

We believe you did not take
our bridge and thank you for
the new one.

We hope you can find a way
home.

You are free to go.

Have a good
trip home!



Well it's time we find a
way home.

Wait who is that!

Hey what are you doing!



Got you!



Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha



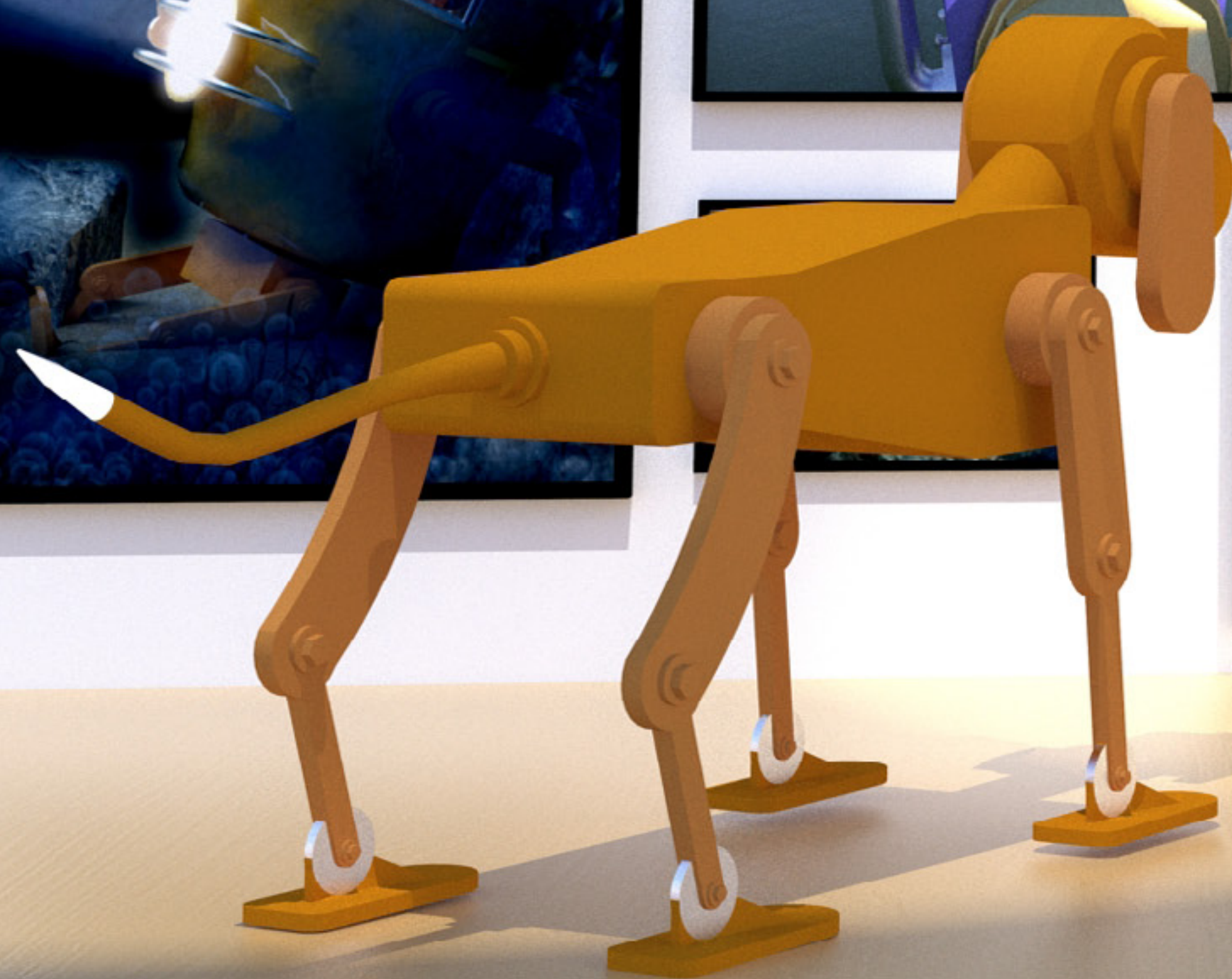
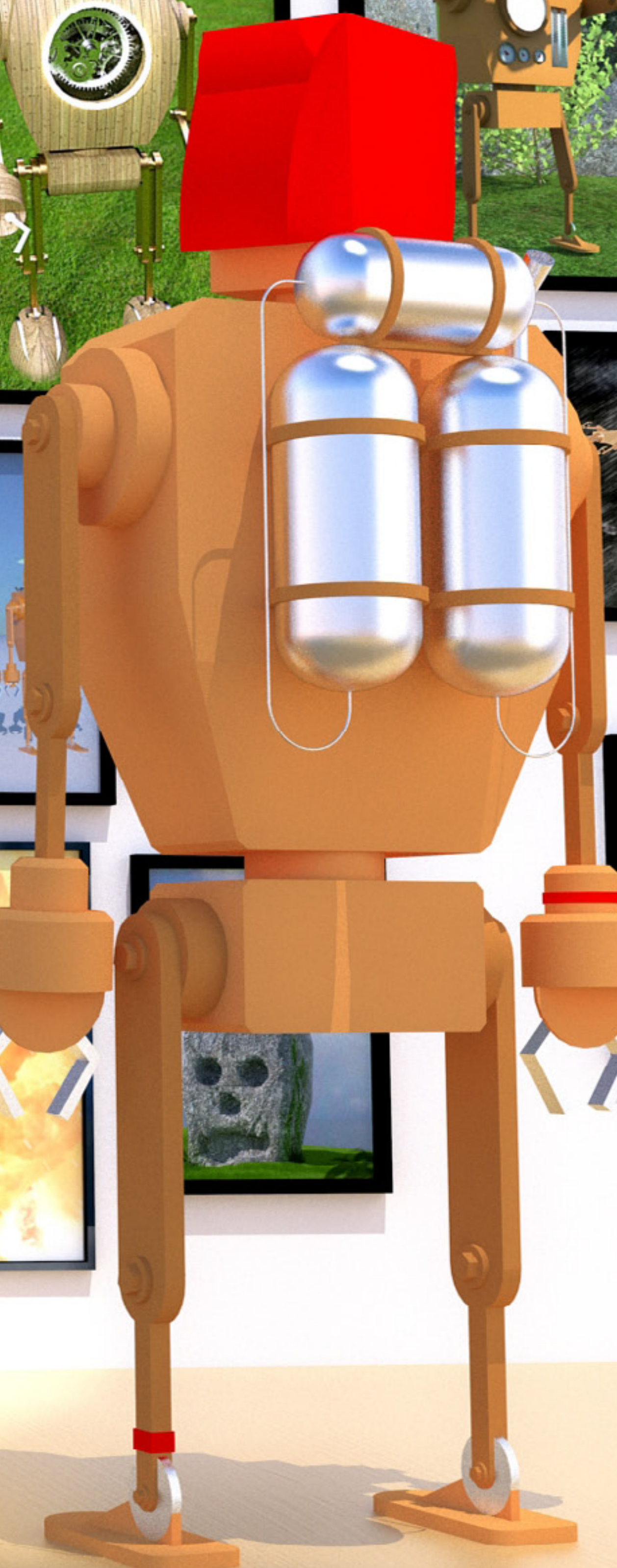
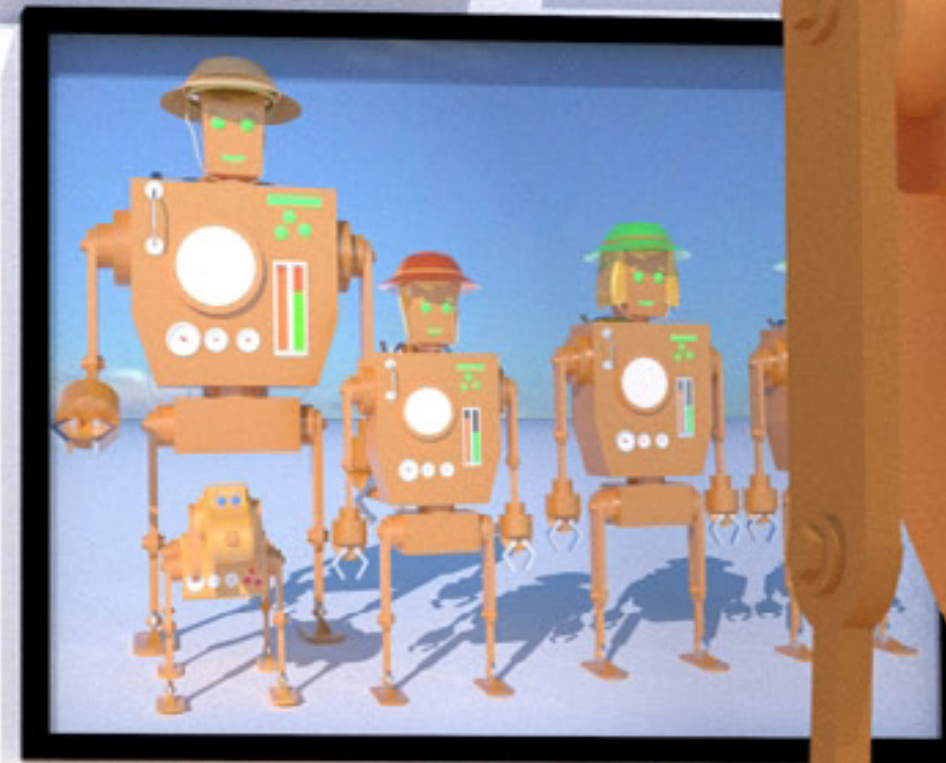
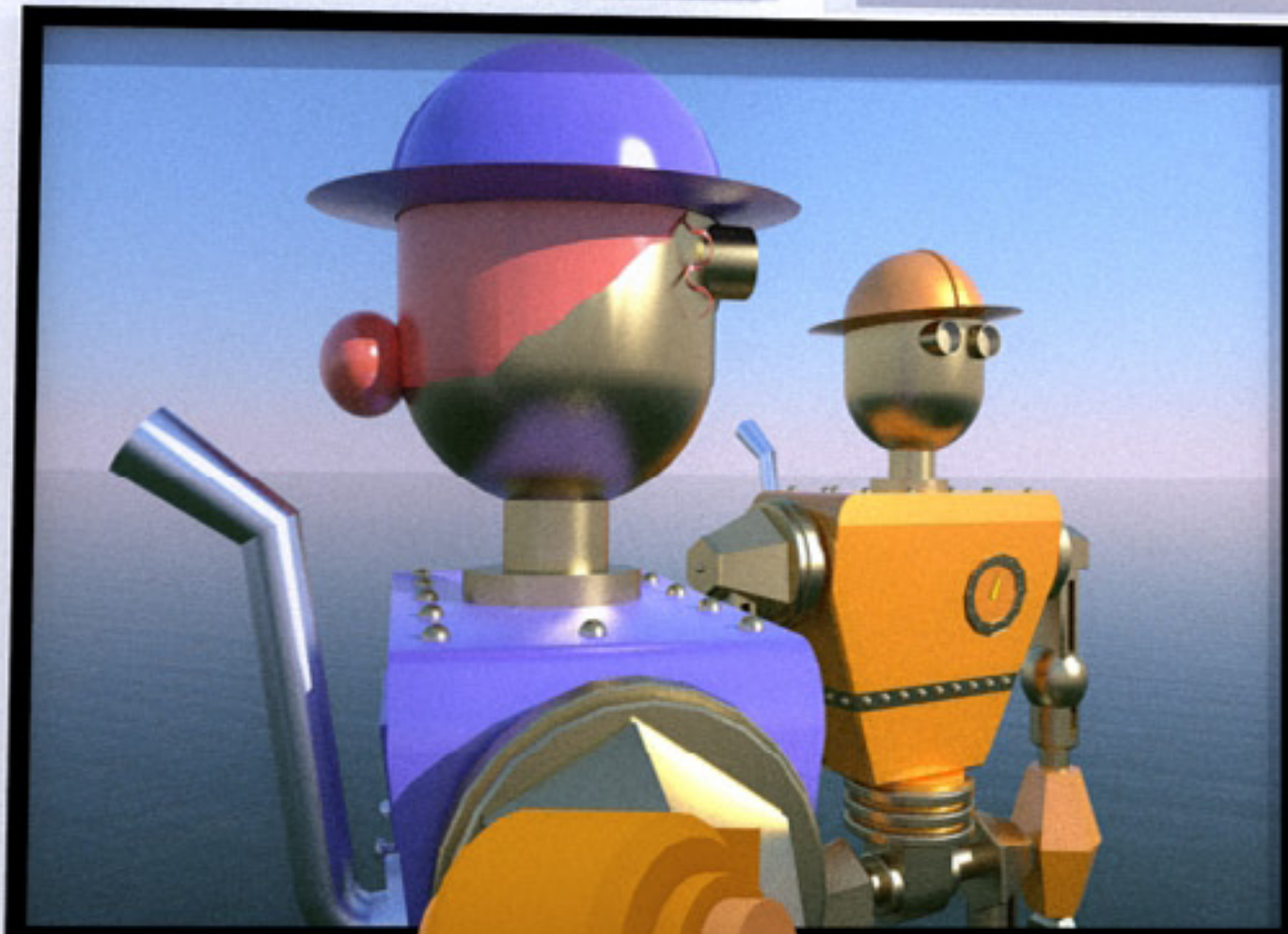
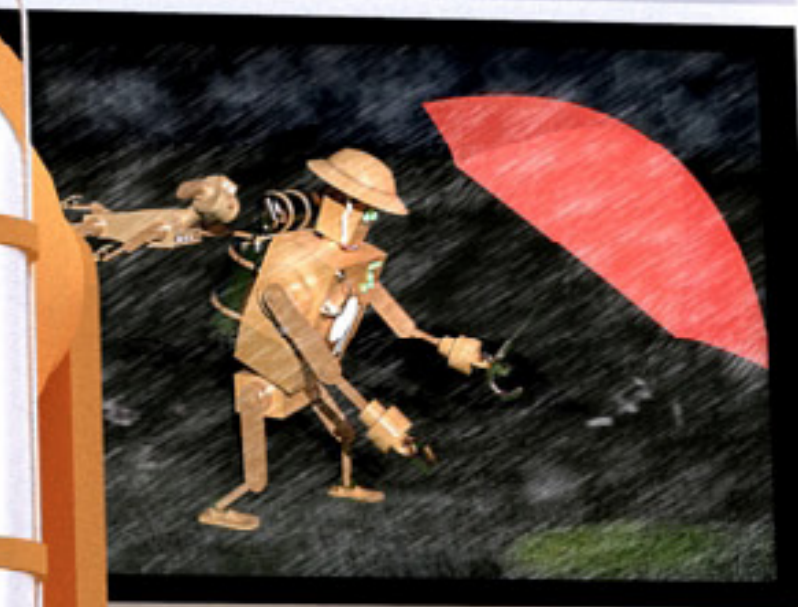
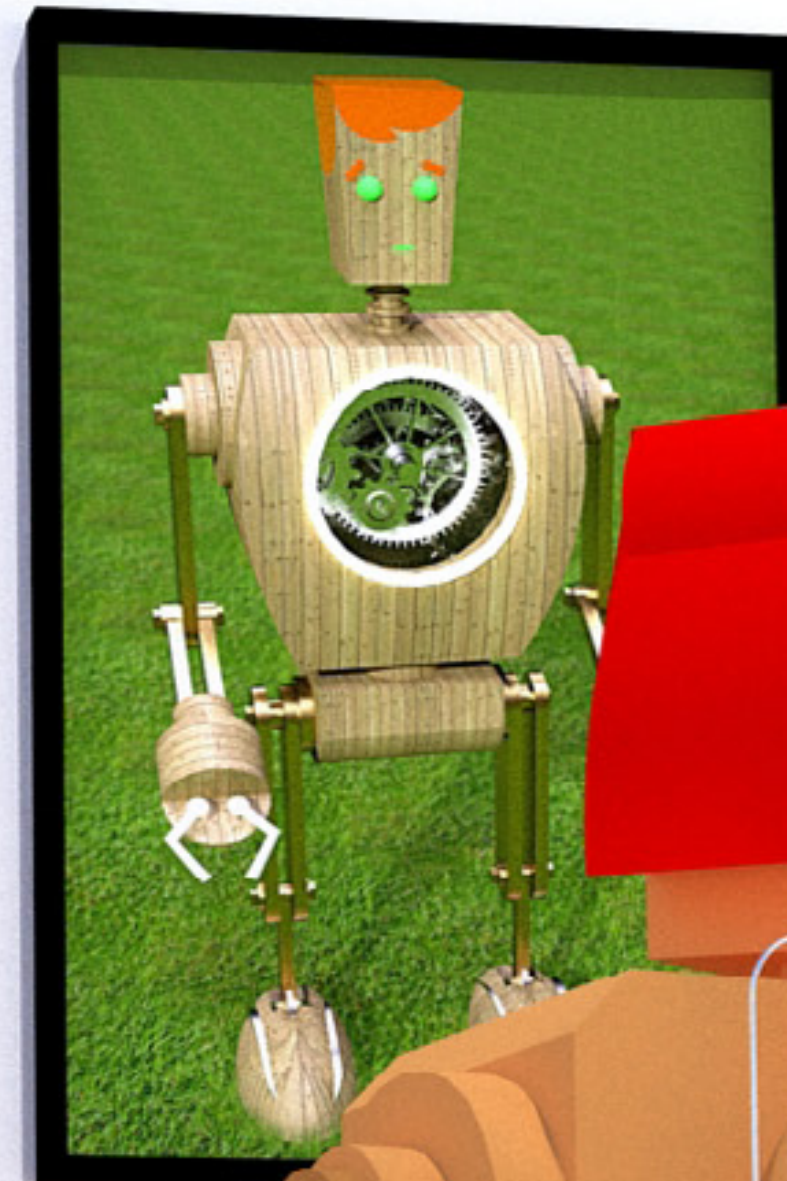
Wow!

Emma, Betty and Maggie have been shrunk and left sealed inside a glass globe.

How will they escape? Will they escape! Stay tuned for the next installment of the adventures of the Bridge Robots!

Stuart Nielsen is a professional bridge engineer who writes odd childrens books in his spare time.





My Top Ten Bridge Engineers!

#10 - Santiago Calatrava

#5 - Othmar Ammann

#9 - Thomas Telford

#4 - Conde McCullough

#8 - Christian Menn

#3 - Robert Maillart

#7 - Isambard Kingdom Brunel

#2 - John Roebling /
Emily Warren Roebling

#6 - Gustave Eiffel

#1 - Joseph Strauss /
Charles Alton Ellis

Look them up on the web with your parents!



We have to get out.

One, two, three, throw me!