

**ESIEA Summer School**

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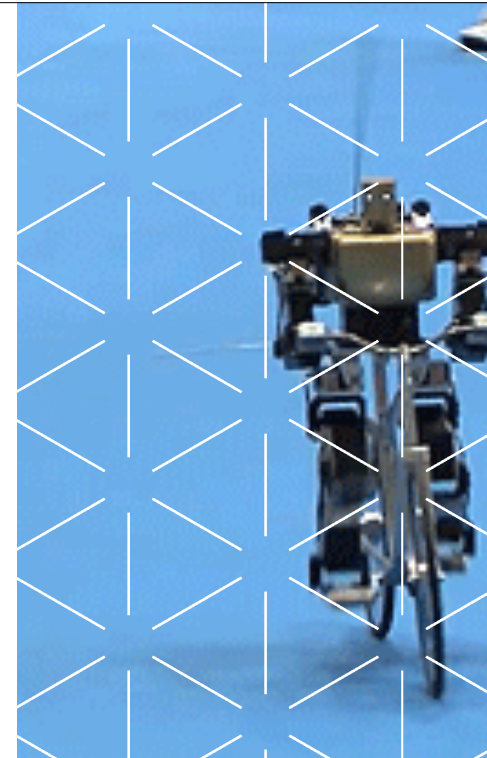
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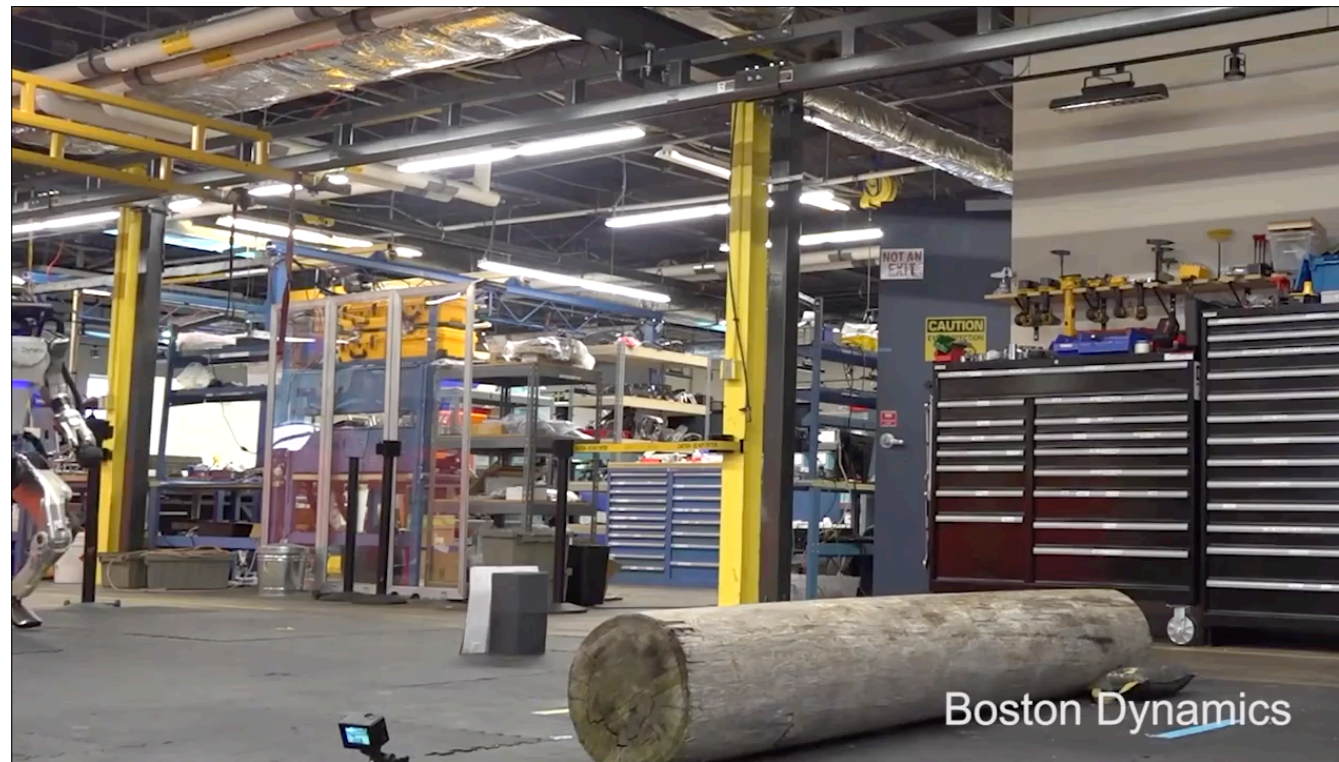
**PRACTICAL  
USES OF AI**

## 👉 OUR TO-DO LIST

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- WHAT IS ARTIFICIAL INTELLIGENCE?
- DIFFERENT MODELS
- EXAMPLES OF MACHINE LEARNING
- PLAY AROUND





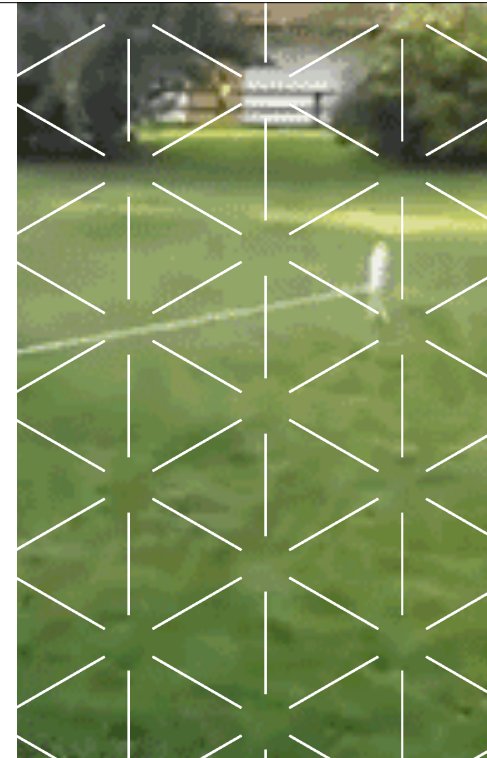
# HARDCODED

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**Hardcoding is embedding code that tells the machine to do exactly what it should be doing.**

**The computer is not learning.  
It is not adapting.**

**It is just executing a program.**

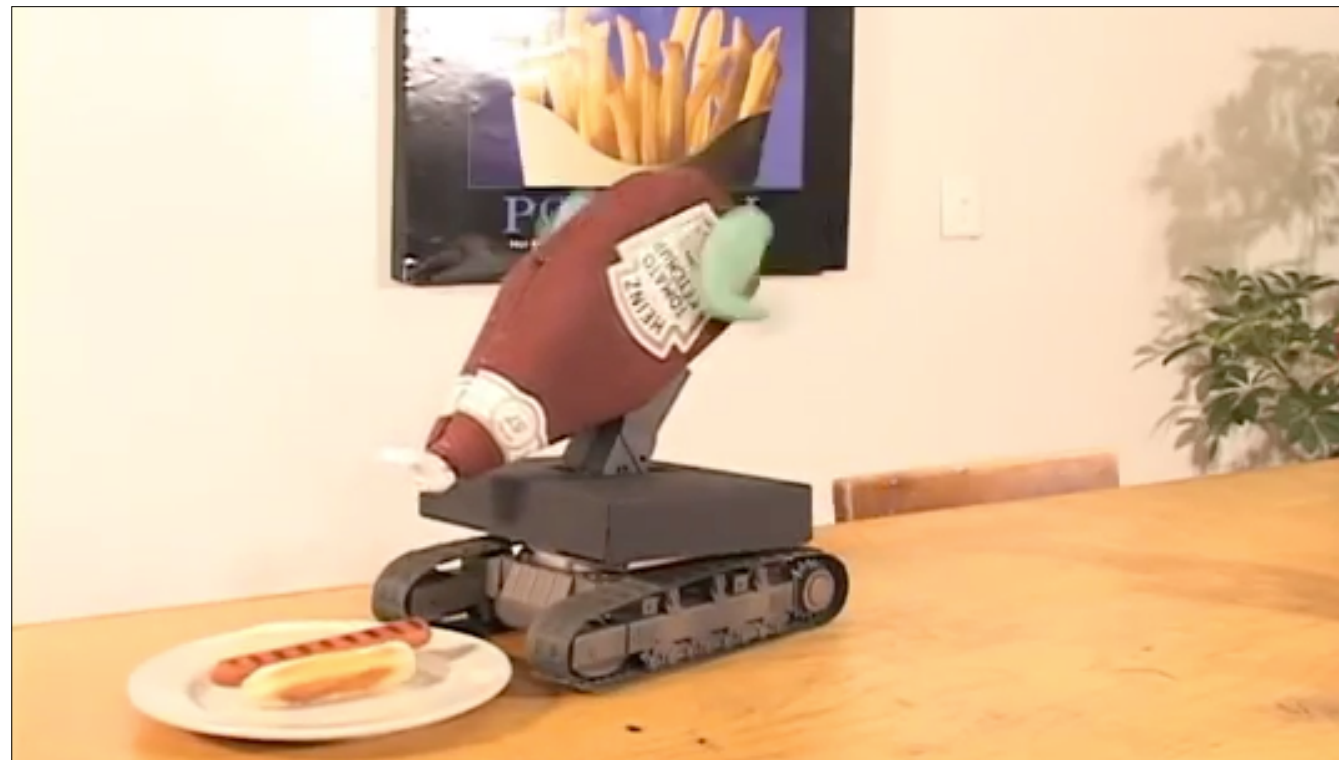


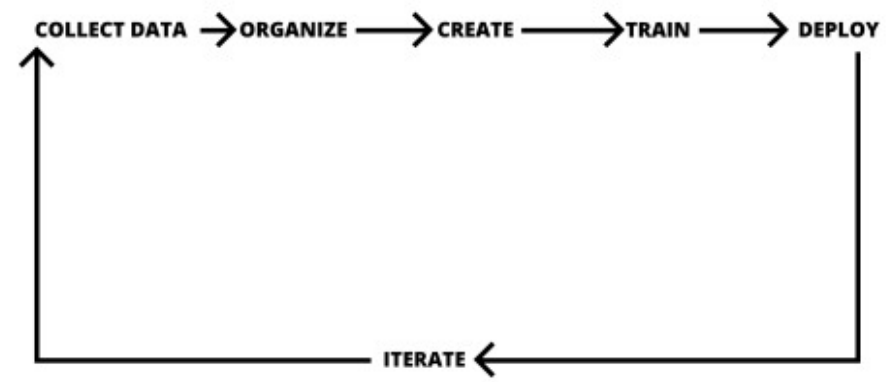
As part of the School, we offer a number of different programmes. We have the Tracks which are trend-related projects, will go into more detail about this in next slide. We have the post-master trainee who is a professional working on the track for 2 years, not only coaching the learners but also researching on a higher level for the organisation.

The rest are all programmes varying in duration and intensity, catering to different groups of people. We want to eliminate design waste and so it is important to us that knowledge output and learnings are (re-)used to fuel the different programmes.

We also work on international collaboration via DxC (one challenge worked by different cultures lending unique cultural experiences and perspectives) and Global Goals Jam. Again, all programmes designed with the societal good in mind.







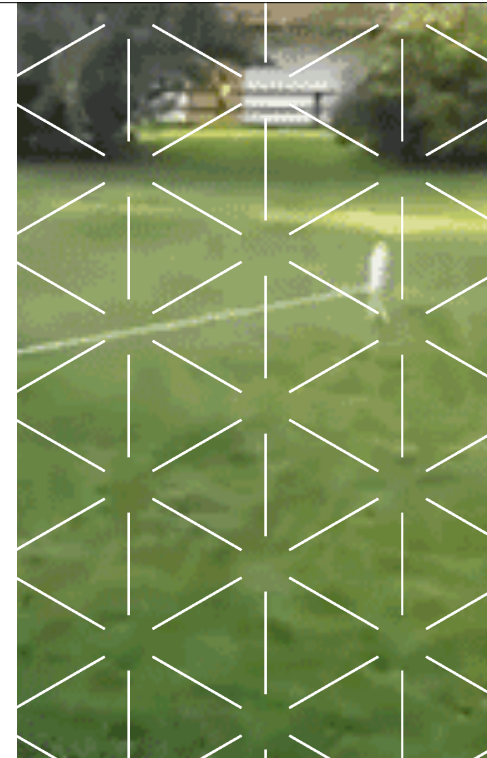
# ARTIFICIAL INTELLIGENCE

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**Artificial Intelligence is a bigger term for two principles:**

**Machine Learning**

**Deep Learning**



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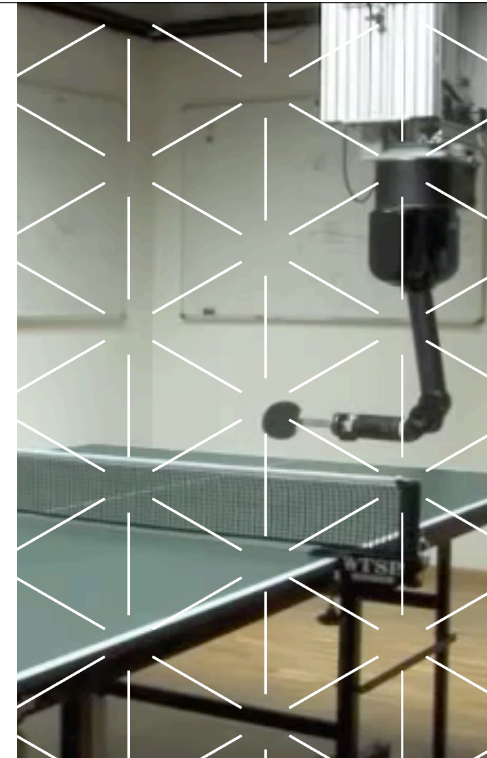
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# MACHINE LEARNING

**Different models make up different ways of learning. But the general idea here is that we have**

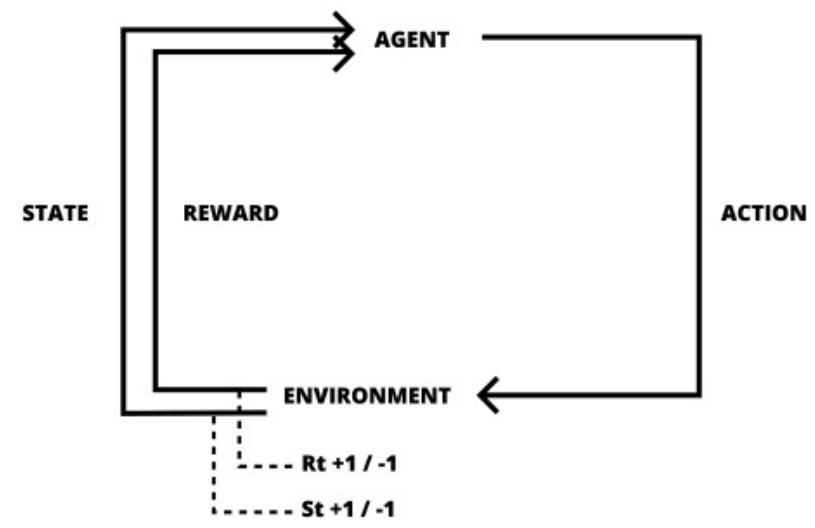
**supervised learning  
unsupervised learning**



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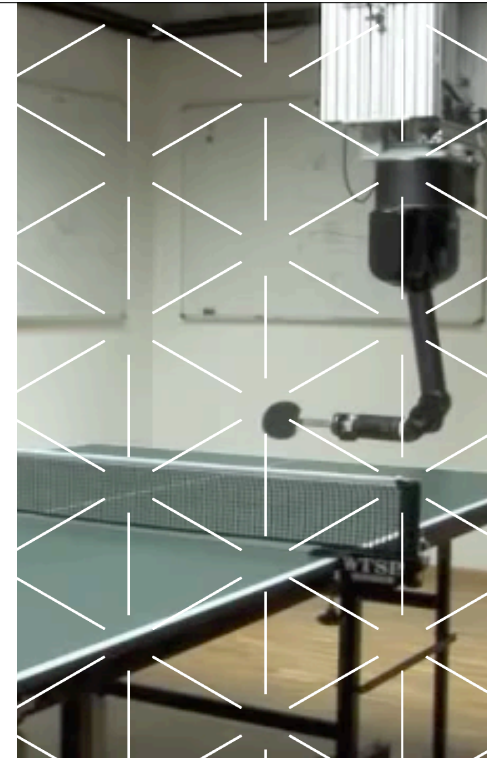


# SUPERVISED LEARNING

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**Different models make up different ways of learning. But the general idea here is that we have**

**supervised learning  
unsupervised learning**



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**EXAMPLE 1.**

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**LITTLE DOG**

**OR**

**LITTLE SNACK?**



**EXAMPLE 2.**

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**DOG IN A CRADLE**

**OR**

**DELICIOUS BAGEL?**



**EXAMPLE 3.**

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**HAIRY DOG**

**OR**

**FILTHY MOP?**

## SUPERVISED LABELLING

**What you just did, is collectively labelling a dataset for Machine Learning.**

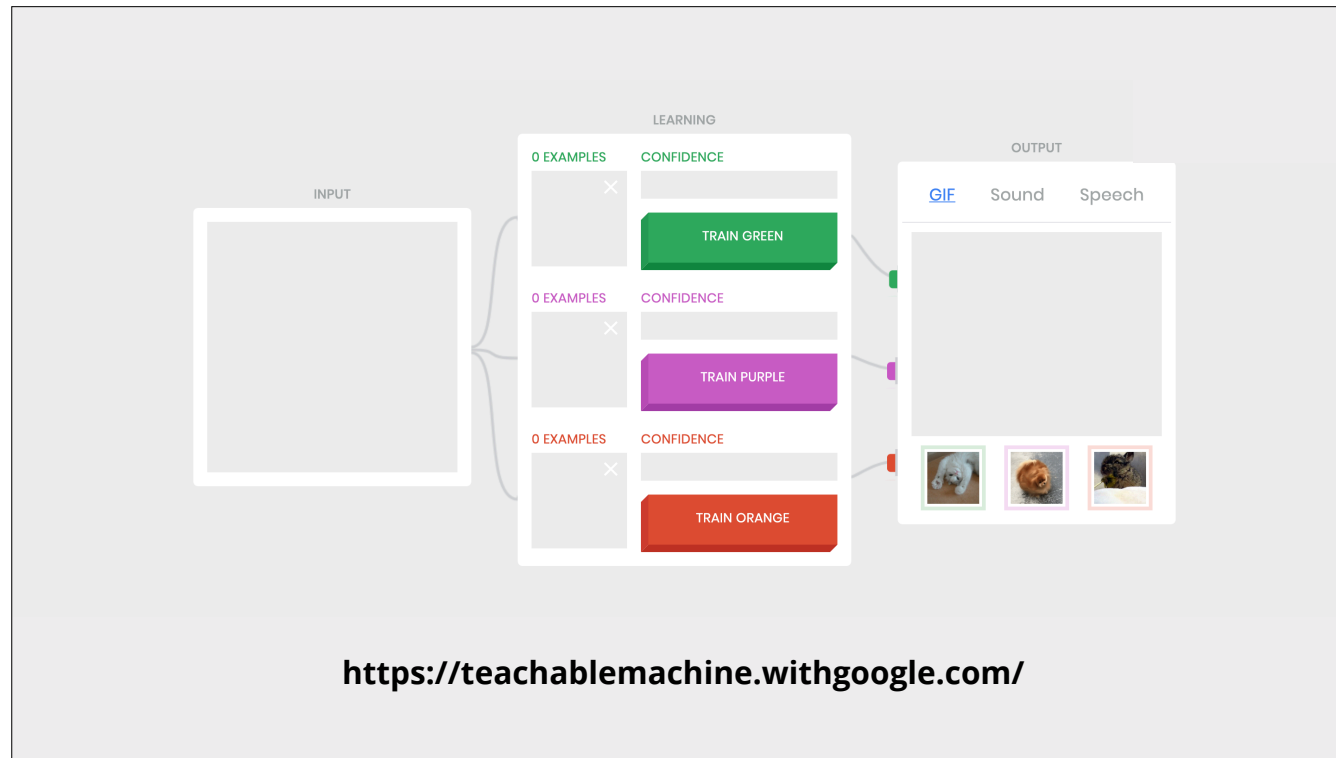
**We can use your answers to reward an agent in a model if its predictions are correct.**



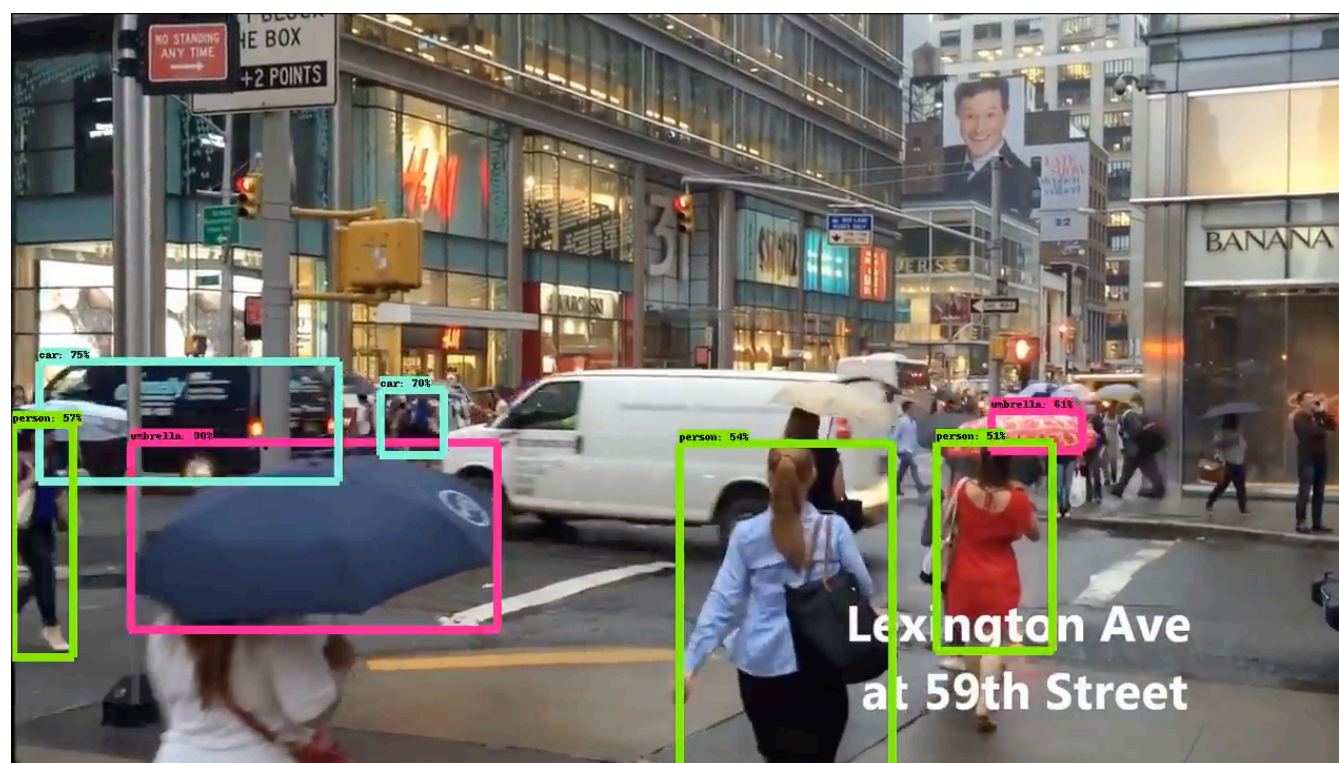
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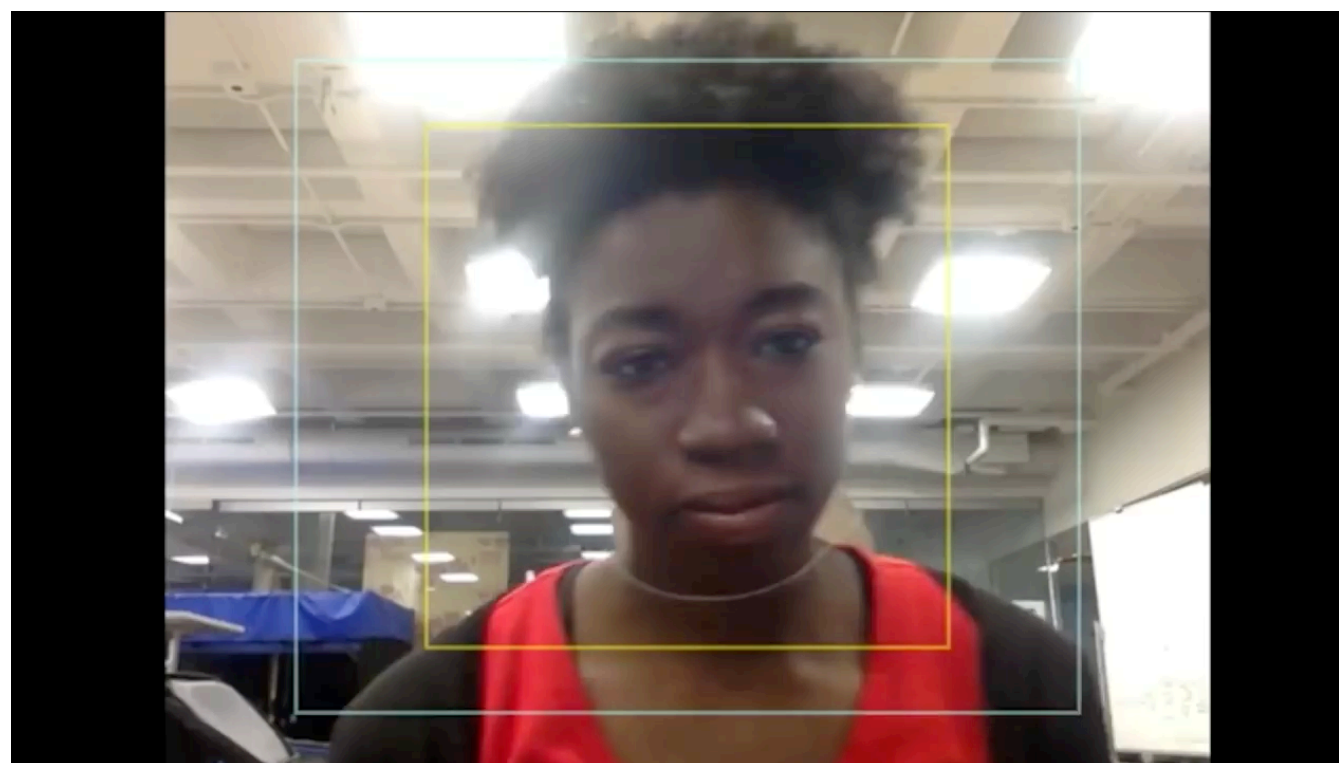
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# ImageNet Roulette

ImageNet Roulette uses a neural network trained on the "people" categories from the [ImageNet](#) dataset to classify pictures of people. It's meant to be a peek into the politics of classifying humans in machine learning systems and the data they're trained on.

ImageNet Roulette isn't designed to handle heavy traffic so if it's not working for you please be a little patient.

or

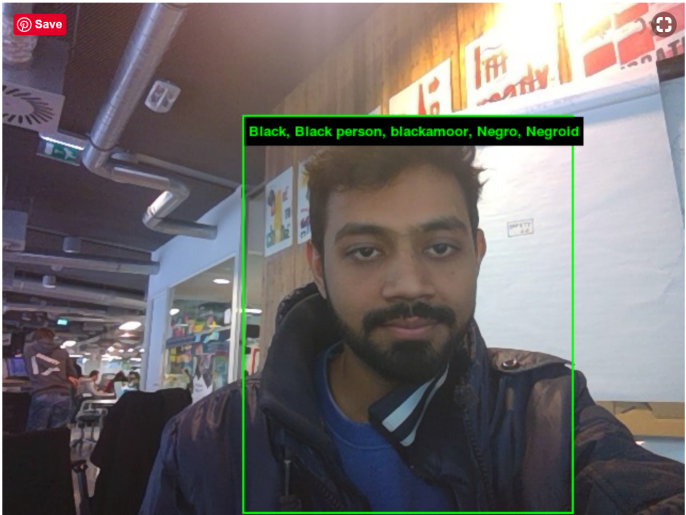
or upload an image:

No file chosen

**<https://imagenet-roulette.paglen.com/>**

or upload an image:

Choose file No file chosen



**Black, Black person, blackamoor, Negro, Negroid:** *a person with dark skin who comes from Africa (or whose ancestors came from Africa)*

- [person, individual, someone, somebody, mortal, soul](#) > [Black, Black person, blackamoor, Negro, Negroid](#)
- [person, individual, someone, somebody, mortal, soul](#) > [person of color, person of colour](#) > [Black, Black person, blackamoor, Negro, Negroid](#)

# UNSUPERVISED

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**The agent will be told what the conditions are for it for 'win'.**

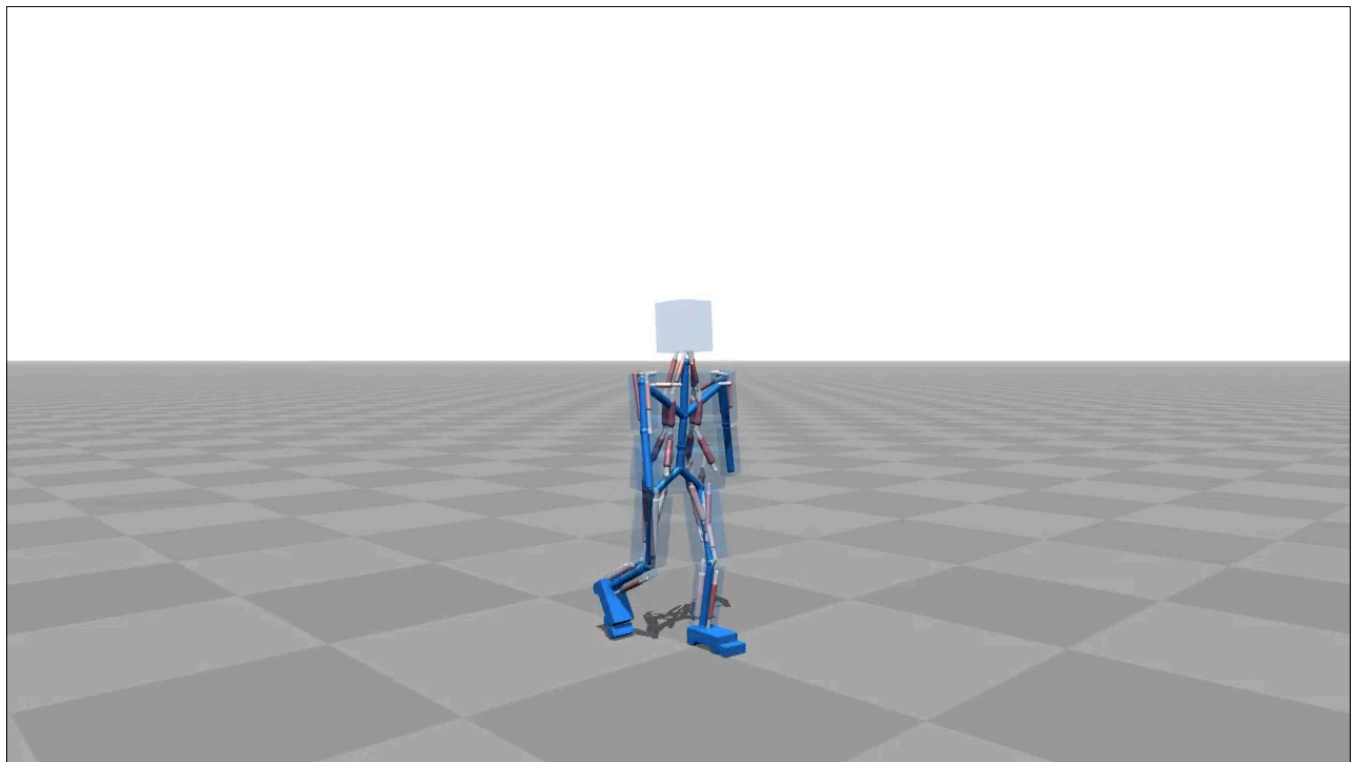
**However, there is no training data and the agent will have to figure out themselves how to 'win'.**

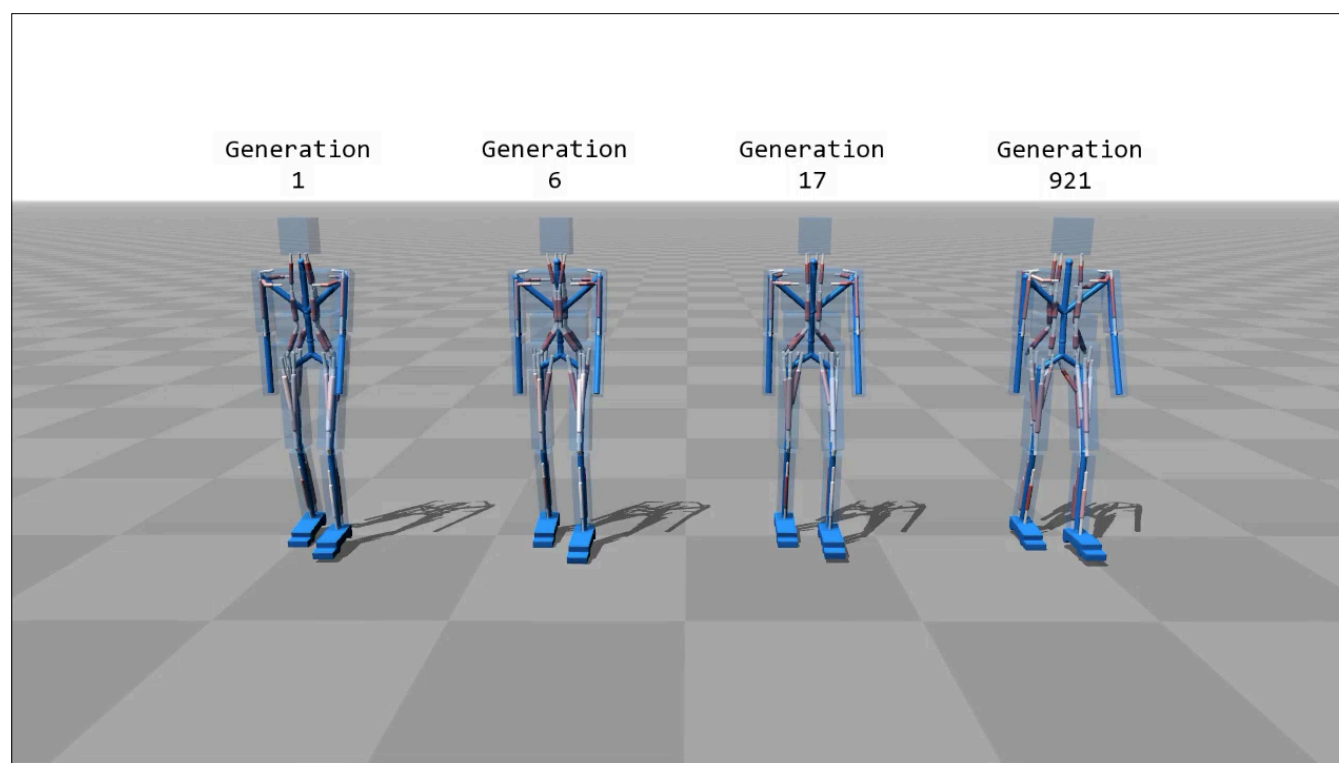


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Click on the person who is real.



<http://www.whichfaceisreal.com/>

