

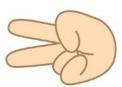
Teach a machine to play Scissors, Paper, Rock

Open https://teachablemachine.withgoogle.com

Click Get Started, Image Project, Standard image model

Gather samples (You can close the how-to videos - click on the X)

- Rename 'Class 1'. Click on the name and call it scissors.
- Rename 'Class 2' to paper.
- Click Add Class, and call it rock.
- On scissors click on Webcam
 Give the computer permission to use the camera Allow / OK.
- Scissors: Make a scissors sign with your hand in front of the camera, filling the image. Press Hold to record about 1000 images, moving your hand around a bit.
- Paper: Now hold your hand up flat, "talk to the hand" style. Press Hold to record on paper, and record a similar number of images.
 Remember to move around.
- Rock: Make a fist to the camera, and press Hold to record on rock. Record a similar number of images, moving around.
- Click Train Model a progress bar shows you how long it takes.
- In the preview panel, test that it recognises scissors, paper, and rock.



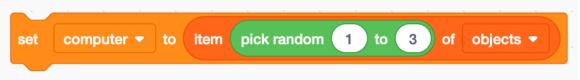




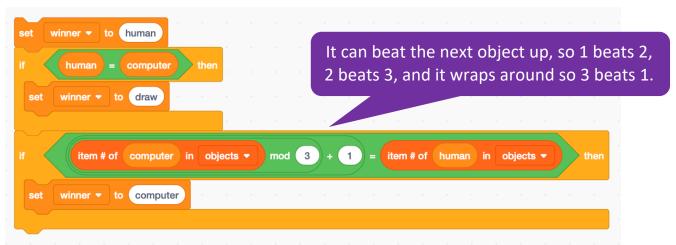
- When you're happy it works, Click on Export Model then Upload my model
- When it's finished, copy the sharable link using the copy button next to it.
- Paste the link into a new tab and bookmark it for luck!

Restart Chrome and open: https://playground.raise.mit.edu/main/

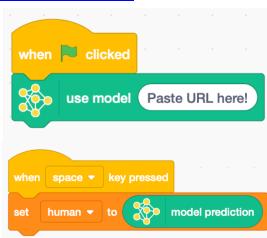
- Delete the sprite.
- Add extension: Teachable Machine and allow it to use the camera.
- Add code to use the model, and paste in the link copied from the Teachable Machine.
- Click the green flag to run it.
- Create variables for human and computer.
- Add code to recognise human input when you press the space key.
- Make a list of objects, and add scissors, paper, rock.
- Add the computer choice, picking one at random.



- Create a variable for the winner.
- Add code to decide who wins, or if it's a draw.



Your code isn't saved to Scratch. Save it on a USB drive.



objects

scissors

length 3

paper

rock