Machine Learning For Kids :: Teachers' notes	
Worksheet	Ink blots
Activity	Train two different machine learning models to recognize pictures, test them using ink blot paintings, and compare the answers that they give.
Objective	Teach a computer to recognise objects in a picture
	Learn how computers can be trained to recognise images
	Learn how the behaviour of machine learning systems is described in the media
Difficulty level	Intermediate
Time estimate	1 hour
Summary	Students work in pairs – one trains an ML model to recognize pictures of animals, the other trains an ML model to recognize pictures of fruit. They test both of these with the same set of ink blot paintings taken from a Rorschach test, and compare the responses that their ML models give.  Finally, they learn about the MIT AI research project that this is based on and are asked to think about the way this was described in different news articles.
Topics	image classification, bias, ethics in AI
	Setup
	Setup Setup
Each student wi	Il need:
Print-outs	Project worksheet (download from <a href="https://machinelearningforkids.co.uk/worksheets">https://machinelearningforkids.co.uk/worksheets</a> ) Blocks in Scratch scripts are colour-coded, so printing in colour will make it easier for students.
Access	Username and password for machinelearningforkids.co.uk
Class account w	ill need:
API keys	None
	Customizing
If you want to <b>inc</b> add steps to the v If you want to <b>en</b> instructions inste Project template	files & worksheets in MS Word format are available so you can modify them to suit your class.
Project	https://github.com/IBM/taxinomitis-docs/tree/master/scratch-templates
templates	Scratch 3 templates end .sb3
Worksheets	https://github.com/IBM/taxinomitis-docs/tree/master/project-worksheets/msword
Help	
Potential issues	<ul> <li>Students will look at the responses from an AI system at <a href="http://norman-ai.mit.edu/">http://norman-ai.mit.edu/</a> Some describe things that could be upsetting to younger children. Review these before deciding if this project is appropriate for your class.</li> <li>You may prefer to train the ML models for your students, to reduce the number of API keys that this worksheet requires. Create "whole class" projects so that they can all create their own robots based on your ML models.</li> <li>General troubleshooting and help at <a href="https://machinelearningforkids.co.uk/help">https://machinelearningforkids.co.uk/help</a></li> </ul>