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M	lachine Learning For Kids :: Teachers' notes
Worksheet	Locate Larry
Activity	Make a Where's Wally? game in Scratch and teach the computer to find your
	character.
Objective	Teach a computer to find something in a picture
	 How computers can be trained to recognise pictures.
	How image pre-processing is used to find a small item in a larger picture
Difficulty level	Intermediate
	The project is reasonably straightforward but builds on being able to do image classification
	of individual images. It's better used as a follow-on project to another images project.
Time estimate	1 hour
Summary	Students will make a Scratch project that generates a scene, cuts it into a grid of
	smaller squares, and trains an image classifier on those grid squares.
Topics	image classification, supervised learning, image pre-processing
	Setup
Each student wi	ill need:
Print-outs	Project worksheet (download from https://machinelearningforkids.co.uk/worksheets)
	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	vill need:
API keys	Watson Visual Recognition - 1 custom model per student
,	One "Lite" API key is free but can only be used to create 2 custom models
	One "Standard" API key can be used to create to create multiple custom models
	more detail at: https://github.com/IBM/taxinomitis-docs/raw/master/docs/pdf/machinelearningforkids-apikeys.pdf
	Customizing
•	A approaches with your class, add a step where students predict how the project template works.
	crease the amount of coding involved, delete some of the code from the project template and
	worksheet so students code it themselves.
instructions inste	courage problem solving, delete some of the detail in the worksheets and provide more general
	files & worksheets in MS Word format are available so you can modify them to suit your class .
Template	https://github.com/IBM/taxinomitis-docs/tree/master/scratch-templates
Worksheets	https://github.com/IBM/taxinomitis-docs/tree/master/project-worksheets/msword
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Potential issues	Successive and the successive an
	train. Students can continue to work on their Scratch project scripts while they
	wait, if you like. They won't be able to run the project until the machine
	learning model is ready, however.
	• "https://machinelearningforkids.co.uk" is a long URL to type for some children.
	You may find it easier to set up a bookmark that they can click on instead.
	The worksheet screenshots are based on Scratch 3. You may prefer to use

Scratch 3 instead, however students may find it harder to find some blocks.

General troubleshooting and help at https://machinelearningforkids.co.uk/help