Machine 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
Time estimate	of individual images. It's better used as a follow-on project to another images project. 1 hour
Summary	Students will make a Scratch project that generates a scene, cuts it into a grid of
Julillialy	smaller squares, and trains an image classifier on those grid squares.
Topics	image classification, supervised learning, image pre-processing
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	Setup
Each student will need:	
Print-outs	Project worksheet (download from https://machinelearningforkids.co.uk/worksheets)
Fillit-outs	rioject worksneet (download from https://machinelearningforkids.co.dk/worksneets/
	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 will 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
Uala	
Help	
Potential issues	Machine Learning models for image projects sometimes take up to 5 minutes to
	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 status light next
	to their project name in Scratch will go green when it's ready.
	"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 2. You may prefer to use Scratch 3 instead, however students may find it harder to find some blocks.
	Scratch 3 instead, however students may find it harder to find some blocks.
	General troubleshooting and help at https://machinelearningforkids.co.uk/help