Machine Learning For Kids :: Teachers' notes	
Worksheet	Find It!
Activity	Create a mobile hide-and-seek game in App Inventor that learns to recognise objects
Objective	 Teach a computer to recognise pictures How computers can be trained to recognise pictures. How to use machine learning in a mobile app.
Difficulty level	Advanced
Time estimate	1 hour - 2 hours (depending on the students' experience with App Inventor)
Summary	Students will train a machine learning model to recognise pictures of objects. They use this in App Inventor to make a mobile app that classifies photos.
Topics	image classification, supervised learning, mobile apps
	Setup
Each student wi	Il need:
Device	An Android mobile phone or tablet
Print-outs	Project worksheet (download from https://machinelearningforkids.co.uk/worksheets) Blocks in App Inventor scripts are colour-coded, so printing in colour will make it easier for students
Access	Username and password for machinelearningforkids.co.uk
Access	Access to App Inventor at http://ai2.appinventor.mit.edu
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
Customizing	
If you want to encourage problem solving , delete some of the detail in the worksheets and provide more general instructions instead. Project worksheet is available in MS Word format so you can modify it to suit your class .	
Worksheets	https://github.com/IBM/taxinomitis-docs/tree/master/project-worksheets/msword
Help Help	
Potential issues	 "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. A video of the finished app in action is available at https://youtu.be/dljU6rmuoGc
	General troubleshooting and help at https://machinelearningforkids.co.uk/help