

Machine Learning For Kids :: Teachers notes

Worksheet	Colour
Activity	Create a flower in 'Scratch' that changes colour to match its background.
Objective	Teach the computer to recognise colours <ul style="list-style-type: none">▪ Learn how to train computers to recognise the predominant colour of an object
Difficulty level	Beginner
Time estimate	1 hour
Summary	Students will train a machine learning model to recognise colours. The users will first click pictures of coloured objects through the computer's webcam and upload it on 'Scratch'. This would enable the flower or any other assigned character to identify colours and match them accordingly.
Topics	image classification, supervised learning

Setup

Each student will need:

Print-outs	<ul style="list-style-type: none">▪ Project worksheet (downloaded from https://happymongo.com/MLKids/worksheets.jsp)▪ Blocks in Scratch scripts are colour-coded, so printing in colour will make it easier for students to relate.
Technology	Web-cam
Access	Username and password for happymongo.com/MLKids/

Guide

Tips	<ul style="list-style-type: none">▪ Machine learning models can sometimes take up to 5 minutes to train. It is okay for students to work on their Scratch projects during this time▪ Student's identity would remain safe as they will be using a secure site and will be stored only till the project is active▪ Recommend to seek parental permission before running this activity▪ "https://happymongo.com/MLKids/" is a long URL. So we recommend you to set up a bookmark for easy access
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