Machine Learning For Kids :: Teachers' notes	
Worksheet	Headlines
Activity	Train a computer to recognise headlines from national newspapers.
Objective	<ul> <li>Test the computer's ability to recognise use of language</li> <li>How computers can be taught to recognise the source of writing</li> <li>How machine learning systems are tested.</li> </ul>
Difficulty level	Advanced The Scratch script is long and complex. Most of it is provided in a starter project file, but finding the right places to make changes needs care. The concept of testing and accuracy can require some explanation.
Time estimate	1 – 2 hours
Summary	Students will collect examples of headlines from national newspapers. These will be used to train a machine learning model based on language in headlines. They will measure the accuracy of this model in a test framework in Scratch.
Topics	text classification, supervised learning, testing
Setup  Each student will 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.
Files	headlines.sbx (download from https://machinelearningforkids.co.uk/worksheets)
Access	Username and password for machinelearningforkids.co.uk
API keys	None
Help	
Potential issues	<ul> <li>Some national newspapers use langauge in their headlines that may not be appropriate for younger children. You may want to tell your class which newspapers to choose if you have concerns.</li> <li>It is important to close and re-open the Scratch browser window after each time a machine learning model is trained, otherwise Scratch will keep using previous output.</li> <li>General troubleshooting and help at <a href="https://machinelearningforkids.co.uk/help">https://machinelearningforkids.co.uk/help</a></li> </ul>