

Keywords: Spring 2

Computer Science

Topic Title: Data representation

Introduction to the topic: Understanding how computers store and understand data.

What lessons will you cover during the topic? Binary, Representing mages, Representing sound files

Keyword	Definition
Binary	Base 2 number system, using 1's and 0's
Denary	Our number system (base 10)
Pixel	Picture Element
Resolution	Amount of pixels per area of measurement (normally per square inch)
Image size	Pixels wide * Pixels High
Colour bit depth	Measurement of bits needed to represent a colour in an image.
Meta data	Additional information attached to an image – e.g. time, date, author
Analogue	Normal sound waves in the air that constantly change.
Digital sound	Sound converted in binary numbers
ADC	Analogue to Digital Converter
Sample	Measure of amplitude at a point in time
Sample resolution	Number of bits used to store each sample
Sample rate	Frequency with which you record the amplitude of the sound