

Notes - Analog vs. Digital

What is digital?	<p>Data that are electromagnetically stored in the form of discrete _____.</p> <p>Computers are digital machines because at their most basic level they can distinguish between just two values, ___ and ___, or _____ and _____.</p>
Types of data:	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
What is analog?	<p>Data represented in a _____ form, in contrast with digital data having _____ values.</p> <p>Data that is recorded in a form that is similar to its _____ structure.</p> <p>In general, humans experience the world _____.</p> <p>_____, for example, is an analog experience because we perceive infinitely _____ gradations of shapes and colors.</p>
Digital Signals	<p>A digital signal is a method of _____ an analogue sound</p> <p>It is a form of recording a sound via transforming _____ into a digital signal consisting of data</p> <p>The usefulness of digital audio is its ability to be stored, retrieved and transmitted without a _____</p> <p>The sound first began as an _____ sound being produced raw from a source</p> <p>Then, the sound waves are detected by the sensitivity of the _____</p> <p>The microphone records the sound by converting it into electric _____ which is read as an electrical _____</p> <p>The sound is stored on the computer's _____ and can be digitally transferred onto portable devices such as an MP3 Player.</p>

Analog Signal	An analog signal is a signal of _____ varying quantities
Digital Advantages	<p>_____ recording equipment</p> <p>Isn't _____ by white noise</p> <p>Easy to _____</p> <p>_____ can be made</p> <p>Easy to _____ the data over networks</p> <p>_____ of a song can be viewed or accessed without accessing the _____ song</p>
Digital Disadvantages	<p>Computers can _____ and cause the data to become _____ or lost</p> <p>Sound _____ is easily lost</p> <p>Digital sound can cut out parts of an analog sound wave, meaning you cannot get a _____ of the sound</p>
Analog Advantages	<p>Use less _____ than digital sounds</p> <p>More _____ representation of a sound</p> <p>It is the _____ form of a sound</p> <p>A perfect _____ of the sound</p> <p>Because of _____, there is little someone can do with the sound</p>
Analog Disadvantages	<p>Susceptible to _____</p> <p>When it is distorted, it's _____</p> <p>Tape is becoming _____ to find</p> <p>_____ is easily lost</p> <p>_____ in editing</p>