

Electronics Analog and Digital Quantities

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Comparing worlds

Comparing worlds

The world *outside* the computer is primarily **analog**.

Comparing worlds

The world *outside* the computer is primarily **analog**.
The world *inside* the computer is primarily **digital**.

Analog versus digital worlds

Analog versus digital worlds

Analog

Analog versus digital worlds

Analog

Digital

Analog versus digital worlds

Analog
continuous

Digital

Analog versus digital worlds

Analog
continuous

Digital
discrete

Analog versus digital worlds

Analog
continuous
many different
quantities (sound, light,
temperature, etc.)

Digital
discrete

Analog versus digital worlds

Analog
continuous
many different
quantities (sound, light,
temperature, etc.)

Digital
discrete
numbers, represented
by electrical signals

Analog versus digital worlds

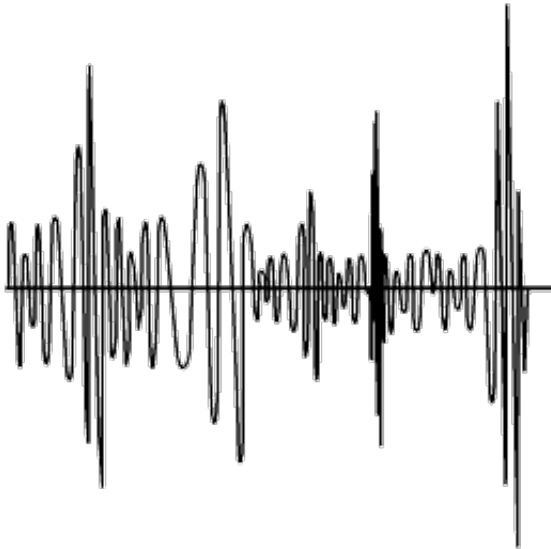
Analog
continuous
many different
quantities (sound, light,
temperature, etc.)
levels matter

Digital
discrete
numbers, represented
by electrical signals

Analog versus digital worlds

Analog
continuous
many different
quantities (sound, light,
temperature, etc.)
levels matter

Digital
discrete
numbers, represented
by electrical signals
events matter



Cello

Mary Had A Little Lamb

Traditional

Sheet music for Cello, Mary Had A Little Lamb, Traditional. The music is in G major (one sharp) and 4/4 time. It consists of four staves of music. The first staff starts with a G note and a 4-measure phrase. The second staff starts with a 3-measure phrase, followed by a D7 chord, and ends with a G note and a 2-measure phrase. The third staff starts with a G note and a 4-measure phrase. The fourth staff starts with a 7-measure phrase, followed by a D7 chord, and ends with a G note and a 1-measure phrase.

Free cello sheet music at
<http://www.capotastomusic.com>

(rh):	3	2	1	2	3	3	3
	E	D	C	D	E	E	E
(lh):	3	4	5	4	3	3	3
	Ma -	ry	had	a	lit -	tle	lamb
	2	2	2	3	5	5	
	D	D	D	E	G	G	
	4	4	4	3	1	1	
	lit -	tle	lamb	lit -	tle	lamb	
	3	2	1	2	3	3	3
	E	D	C	D	E	E	E
	3	4	5	4	3	3	3
	Ma -	ry	had	a	lit -	tle	lamb
	3	2	2	3	2	1	
	E	D	D	E	D	C	
	3	4	4	3	4	5	
	his	fleece	was	white	as	snow	

 **F. CHOPIN**
24 Préludes Op. 28 N°1.

Agitato. M.M. 176.

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Review

Review

- What is different about the *analog* and *digital* worlds?