Signal: Something that conveys information

System: Takes signal(s) as input and produces a signal(s) as output

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Independent Variables For Signals (Examples)

Time: t

Location: x, y, z

Frequency: f (Hz) or w (radial)

Dependent Variables For Signals (Examples)

Color

Voltage

Current

Temperature

Mass / Mass Density

Density Distribution

Rotational Velocity

Dependent & Independent Variables for Signals

Can be "continuous" or "Discrete"

Analog Signal:

Independent variables are continuous

Dependent variables are continuous

Digital Signal:

Independent variables are discrete

Dependent variables are discrete

Mixtures are possible

- often used during analog to digital conversion

or