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# AnalogSignal

**AnalogSignal**

Analog signal container for Signal Computing labs

This class defines an "analog signal" for use in labs associated with `_Signal Computing: Digital Signals in the Software Domain_` by Stiber et al. This software is licensed is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License. Please see <http://faculty.washington.edu/stiber/pubs/Signal-Computing/> for licensing details.

Obviously, Matlab can't actually represent a true analog signal. So, we fake it by encapsulating the nasty bits. Since the purpose of this class is to support the abovementioned text, it only has to provide limited capabilities: AnalogSignals can be created, added, plotted, and sampled. That's it! Don't look behind the curtain!

## Class Details

Sealed

false

Construct on load

false

## Constructor Summary

[AnalogSignal](#)

Constructor

## Property Summary

[analogTimeStep](#)

All analog signals are actually

[duration](#)

in seconds

[legalTypes](#)

this frequency, to maintain the

[maxFreq](#)

sampled at this time step (seconds)

## Method Summary

[minus](#)

operator to subtract two analog signals

[mtimes](#)

operator to multiply analog signal by a scalar

[plot](#)

Overloaded plot operation for analog signals

[plus](#)

operator to add two analog signals

[samplehold](#)

Perform a sample and hold function on an AnalogSignal