

## LAB 1. Signals in Matlab

### Introduction

This lab will describe how to use Matlab for some basic signal representation and manipulation:

- Creating and importing signals
- Sampling and resampling
- Signal visualization
- Modeling noise
- Modulation

You will be needing to run some special programs for all the MATLAB Labs in EE289. Go to

<http://www.cems.uvm.edu/~mirchand/classes/EE275/2012/Software/>

and download *sg01* and *sg02* and save it somewhere on your disc. When using Matlab, set a path to it, so that all functions in *sg01* and *sg02* are accessible.

### Discrete Signals

Time base:  $\mathbf{t} = [0.0 \ 0.1 \ 0.2 \ 0.3]$   
Signal data:  $\mathbf{x} = [1.0 \ 3.2 \ 2.0 \ 8.5]$

The central data construct in Matlab is the numeric array, an ordered collection of real or complex numeric data with one or more dimensions. The basic data objects of signal processing (one-dimensional signals or sequences, multichannel signals, and two-dimensional signals) are all naturally suited to array representation.

Matlab represents ordinary one-dimensional sampled data signals, or sequences, as vectors. Vectors are 1-by- $n$  or  $n$ -by-1 arrays, where  $n$  is the number of samples in the sequence.

One way to introduce a sequence into Matlab is to enter it as a list of elements at the command prompt. The statement

```
 $\mathbf{x} = [1 \ 2 \ 3 \ 4 \ 5]$ 
```

# Lab 1 Signals In Matlab

**K Morrison**



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