



FRS 135

State of the Earth: Shifts and Cycles

Name	Function	Example
<code>imread</code>	Reads an image file	<code>ix=imread('filename');</code>
<code>fullfile</code>	Constructs a valid path name	<code>ff=fullfile('dirn','fname');</code>
<code>size</code>	Queries the size of a variable	<code>s=size(ix);</code>
<code>plot</code>	Plots (x, y) values on a graph	<code>x=[1 2 3]; y=[10 20 30]; plot(x,y,'o')</code>
<code>xlabel</code>	Uses a quoted string for an x -axis label	<code>xlabel('elevation [m]')</code>
<code>ylabel</code>	Uses a quoted string for a y -axis label	<code>xlabel('roughness')</code>
<code>hold on</code>	Keeps current axes for next time you plot anything	<code>x=[1 2 pi]; y=[10 20 30]; plot(x,y,'bo'); hold on; plot(10*x,3*y,'rs')</code>
<code>linspace</code>	Makes an array of N evenly spaced values between a and b	<code>x=linspace(-3,3,100)</code>
<code>reshape</code>	Changes the dimensions of an array x to a rows and b columns	<code>x=linspace(-3,3,100); xr=reshape(x,20,5)</code>
<code>hist</code>	Makes a histogram (and plots it)	<code>x=linspace(-3,3,10); hist(x)</code>
<code>bar</code>		
<code>axis xy</code>		
<code>axis ij</code>		

Table 1: List of Matlab commands and their function and usage examples.

[illegible]