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% This is a crude example of how to generate a Movie in Matlab.

mov1 = avifile('my_movie_name.avi', 'compression', 'None'); % open movie


% NOTES:
%
% on Windows, use 'Cinepak' for video compression.  Do not use the default.
% mov = avifile('my_movie.avi', 'compression', 'Cinepak')
%
% On Unix and Mac, use 'None' for video compression.
%
%
%
% Note that if you are using a Mac, you will need to use Quicktime 7
% to open and play moview created in MATLAB.  For more details, see:
% http://www.mathworks.com/support/solutions/en/data/1-B2SNDM/



x=-2:0.01:2;                % range of x values for plot data
m=0;                        % slope of line to be plotted in animation
s=0.01;                     % slope increment
nframes=50;                 % number of frames in the movie

for k = 1:nframes
   y=m*x;                   % generate line

   plot(x,y,'r-');          % plot data
   axis([-2 2 -1 1]);       % set axis limits
   xlabel('This is the x axis label', 'FontSize', 12);
   ylabel('This is the y axis label', 'FontSize', 12);
   title('This is the plot title', 'FontSize', 14) ;

   % prints slope value in upper left corner of movie frame:
   text(-1.4,0.8,['slope = ' num2str(m, '%4.2f')], 'Margin', 5, 'EdgeColor', 'k');

   M=getframe(gcf);         % get movie frame
   mov1=addframe(mov1,M);   % add frame to movie

   m=m+s;                   % increment slope
end

close(gcf);                 % close current figure
mov1 = close(mov1);         % close movie
```