nframes=60;  % number of frames in the movie

mov = avifile('my_movie.avi')
% On Windows (but not on Unix) you can use compression as follows:
% mov = avifile('my_movie.avi','compression','Cinepak')

x=-1:0.01:1;
m=0;  % slope of plotted line
s=0.01;  % slope increment
y=m*x;

for k = 1:nframes
    m=m+s;  % increment slope
    y=m*x;
    plot(x,y,'k-');
    axis([-1 1 -1 1])
    axis square
    M = getframe;
    mov=addframe(mov,M);  % add frame to movie
end

mov = close(mov);