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  script segment1
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  This is a Matlab script that will run the simple k-means algorithm
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  for segmenting an image. You should select two images from the
  homework Matlab file and perform segmentation on them. The output will
  be used by another script of mine for visualization.
  This code uses some Matlab tricks to be somewhat generic. First,
  all arguments are encapsulated into a cell array. This works as
  follows. The cell array belows consists of two arguments:
  >> sampleCellArray = {40, 34};
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  that when expanded as an argument to a function, provides two
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  inputs to the function,
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  >> plus( sampleCellArray{:} )
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  The output should be the addition of the two arguments:
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  ans =
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  Anyhow, this function expectes the same, but the arguments are
  consistent with what the segKmeans function expects.
close all
clear
load('segment.mat');
picks = [1 2];
for i = 1:length(picks)
 switch (picks(i))
   case 1,
     images{i} = westin;
     iparms{i} = { 5, [3, 10, 60, 140, 150] };
   case 2,
     images{i} = fish04;
     iparms{i} = { 5, [1, 5, 40, 80, 120] };
 end
% Add more cases if you want to do all of the images, and change
% "picks" accordingly.
for i = 1:length(images)
 [segimg{i}, K, nmeans{i}] = segKmeans(double(images{i}), iparms{i}{:});
 figure(i);
 figure(3 * i);
 imagesc(images{i});
 axis image;
 colormap('gray');
```











