Exercise 5: eval

Download the vowels from my website:

www.psych.uiuc.edu/~alleras/courseImages.htm

Write a program that displays the vowels one by one (upon user's pressing enter key) on the Figure window.

Exercise 5: eval

```
for vowel=['a' 'e' 'i' 'o' 'u']
   string = ['''let' vowel ''','''gif'' ']
   %concatenate file name string
   eval(['[letter,map]=imread(' string ')']);
   image(letter);
   colormap(map);
   axis off;
   axis equal;
   input('Ready for next? \n');
end;
```

Homework/in class exercises

OPTION A. electricgraphiti.m Write a program that asks a user for his/her name and displays an image graphiti of their name using the gif letter files in:

www.psych.uiuc.edu/~alleras/courseImages.htm

Save the name as three jpgs of poor, medium and high quality (as due to compression).
Hint: beware of capitals.

OPTION B. Write a program that creates the image of a white circle (128 pixel radius) centered on a 400x400 black square. For extra credit (+2), make the brightness of the circle increase smoothly from black in the center to white at its edge. TOUGH GRADING for extra-credit assignment.

OPTION C: Do both. Second one counts as extra credit. If you do both, plus the extra credit option, you'll get +4 of ec.

Exam prep.

- A sample code uploaded on Compass
- You will be asked questions about what a given code does.

Question A.1

- Annotate the code above explaining what each of the 2 flow control statements are trying to do/determine.

Question A.2

- Please describe what the program conmeans.m does.

Question B.1

- Imagine that you run this program inside a folder that contains the following files:

```
01-expt1.dat  experiment1.m  notes2self.txt
02-expt1.dat  data.txt       todolist.txt
03-expt1.dat  instructions.txt    experimentresults.txt
```

What will be the output of the program? Be specific in your response: what are files read? Changed? Created? What's inside those files? What happens if data has four columns and what happens if it does not?

Question B.2.

- What would happen if the program is run inside a folder containing these files?

```
01-expt1.dat  experiment1.m notes2self.txt
02-expt1.dat  data.dat      todolist.txt
03-expt1.dat  instructions.txt    experimentresults.dat
```

What files are read? What files are created? Why?

Question B.3

- Assuming the data you want to analyze is inside the file data.dat, what should you change so that the program runs properly?