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1  %!PS
2  %%Author: Eryn Kelsey-Adkins
3  %%Class: CS 3210
4  %%Project: PostScript
5  %%Title: Smiley Faces
6
7  /doCircleEyes
8  %a function to make small circles for eyes
9  %x position: 0, y position: 0, radius: 6
10 {0 0 6 0 360 arc stroke} def
11
12 /doCircleEyesFilled
13 %a function to make small filled circles for eyes
14 %x position: 0, y position: 0, radius: 6
15 {0 0 6 0 360 arc fill} def
16
17 /doSmile
18 %a function to make an arc for a smile
19 %x position: 0, y position: 0, radius: 60
20 %arc starts at -150 and ends at -30
21 {0 0 60 -150 -30 arc stroke} def
22
23 /doFaceCircle
24 %a full circle for the face
25 %x position: 0, y position: 0, radius: 100
26 {0 0 100 0 360 arc stroke} def
27
28 /doFaceSquare
29 %draws a 2 inch square filled with light blue
30 %adds eyes and a smile
31 %starting x position: 0, y position: 0
32 {0 0 moveto
33   0 144 rlineto
34   144 0 rlineto
35   0 -144 rlineto
36   -144 0 rlineto
37   closepath
38   4 setlinewidth
39   0 1 1 setrgbcolor
40   fill
41
42   46 108 moveto
43   18 -18 rlineto
44   -18 -18 rlineto
45   4 setlinewidth
46   0 setgray
47   stroke
48
49   94 108 moveto
50   -18 -18 rlineto
51   18 -18 rlineto
52   4 setlinewidth
53   stroke
54
55   70 80 60 -150 -30 arc stroke} def
56
57 /doAuthor
58 %prints the author's name
59 %x position: 0, y position: 0
60 {/Geneva findfont 10 scalefont setfont
61   0 0 moveto
62   (Eryn Kelsey-Adkins) show
63 } def
64
65 144 150 translate doFaceCircle doSmile
66 -30 30 translate doCircleEyes
67 60 0 translate doCircleEyes
68
69 72 150 translate 6 setlinewidth doSmile

```

```
70  -24 35 translate 1.5 2.25 scale 2 setlinewidth doCircleEyesFilled
71  35 0 translate doCircleEyesFilled
72
73  36 20 translate 1 1 scale doFaceSquare
74
75  -200 144 translate doAuthor
76
77  showpage
78
```