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1  %!PS
2  %%Author: Eryn Kelsey-Adkins
3  %%Class: CS 3210
4  %%Project: PostScript
5  %%Title: Binary Tree
6
7  /inch
8  {72 mul} def
9
10 /leftlabelnode
11 %node with label to the left
12 {/label exch def
13   0 0 .5 inch 0 360 arc
14   gsave
15   .5 setgray fill
16   grestore stroke
17   -1.75 inch 0 moveto
18   label show } def
19
20 /rightlabelnode
21 %node with label to the right
22 {/label exch def
23   0 0 .5 inch 0 360 arc
24   gsave
25   .5 setgray fill
26   grestore stroke
27   1 inch 0 moveto
28   label show } def
29
30 /node
31 %node without label
32 {newpath
33   0 0 .5 inch 0 360 arc
34   gsave
35   .5 setgray fill
36   grestore stroke } def
37
38 /level2branch
39 %branches start at the center of the lower leftmost node
40 {0 0 moveto
41   .75 inch 2 inch rlineto
42   .75 inch -2 inch rlineto
43   stroke } def
44
45 /level1branch
46 %branches start at the center of the lower leftmost node
47 {0 0 moveto
48   1.75 inch 2 inch rlineto
49   1.75 inch -2 inch rlineto
50   stroke } def
51
52 /doAuthor
53 {/title exch def
54   0 0 moveto
55   (Author: Eryn Kelsey-Adkins) show
56   0 -20 moveto
57   title show
58 } def
59
60 /Geneva findfont 20 scalefont setfont
61
62 1.75 inch 3 inch translate level2branch (Child) leftlabelnode
63 1.5 inch 0 inch translate node
64 2 inch 0 inch translate level2branch node
65 1.5 inch 0 inch translate (Leaf) rightlabelnode
66 -4.25 inch 2 inch translate level1branch (Parent) leftlabelnode
67 3.5 inch 0 inch translate node
68 -1.75 inch 2 inch translate (Root) rightlabelnode
69 -3.5 inch 2 inch translate (Binary Tree) doAuthor

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70  
71  
72  
73

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