

Homework, Week 8, part C

December 20, 2013

Create a dot file for something that you know well. This could be the layout of your home, a map to a favorite spot, the rules of a game, the operation of a piece of machinery, or anything else that you can view as a graph. Then, execute the file using `dot`, `circo`, and `neato`. Compare the results.

Here is a dot file I wrote to depict our organization structure at Troy. I don't expect you to do anything as elaborate. Still, if you run this file (it's best to use `circo`) you can see how easy it is to get some very good results.

```
1 graph troy_01
2 {
3     node[shape=record, color=dimgrey, style=filled, fontsize
4         =42];
5     Troy[label=" { Troy University | Cancellor | Jack Hawkins}
6         "]
7     node[shape=record, color=lightgrey, style=filled];
8
9     GlobalCampus [label=" { Troy Global Campus | V/C TGC |
10         Lance Tatum}"]
11     PhenixCity [label=" { Phenix City Campus | V/C Phenix City
12         | David White }"]
13     Dothan [label=" { Dothan Campus | V/C Dothan | Don Jeffrey
14         }"]
15     Montgomery [label=" { Montgomery Campus | V/C Montgomery |
16         Ray White}"]
17
18     node[shape=Mrecord, color=black, style=bold];
19
20     Orlando [label=" { Orlando District | District Director |
21         Chuck Helemdollar}"]
22     FtWaltonBeach [label=" { Ft. Walton Beach District |
23         District Director | Alicia Bookout}"]
24     Augusta [label=" { Augusta District | District Director |
25         Lynn Chapman}"]
26     Atlanta [label=" { Atlanta District | District Director |
27         Bill Glisson}"]
```

```

20 SanAntonio [label=" { San Antonion District | District
    Director | tbd}"]
21
22 node[shape=Mrecord, color=black, style=rounded];
23
24 FtBenning [label=" { Ft Benning/Columbus Site | Site
    Director/Coordinator | Donna Myers }"]
25
26 Tampa [label=" { Tampa Site | Site Director/Coordinator |
    Carol Walters}"]
27 Hurlburt [label=" { Hurlburt Field Site | Site Director/
    Coordinator | Linda Germany}"]
28 Eglin [label=" { Eglin AFB Site | Site Director/
    Coordinator | Rob Morrison}"]
29 Pensacola [label=" { Pensacola Site | Site Director/
    Coordinator | Rick Puckett}"]
30 PanamaCity [label=" { Panama City Site | Site Director/
    Coordinator | Lisa Kitto}"]
31 Tyndall [label=" { tyndall AFB Site | Site Director/
    Coordinator | Beth Anslow}"]
32
33 FtGordon [label=" { Fort Gordon Site | Site Director/
    Coordinator | Dorothy Gandy }"]
34 Brunswick [label=" { Brunswick Site | Site Director/
    Coordinator | Lynn Champan }"]
35 Savannah [label=" { Savannah Site | Site Director/
    Coordinator | Lynn Chapman }"]
36 Sumter [label=" { Sumter Site | Site Director/Coordinator
    | Lisa Bennett }"]
37 Fayetteville [label=" { Fayetteville Site | Site Director/
    Coordinator | Patricia Bush-McManous }"]
38
39 Albany [label=" { Albany Site | Site Director/Coordinator
    | Lee Washington }"]
40 Covington [label=" { Covington Site | Site Director/
    Coordinator | Bob Bertram }"]
41 Clarksville [label=" { Clarksville Site | Site Director/
    Coordinator | Kathleen Akers }"]
42 Norfolk [label=" { Norfolk Site | Site Director/
    Coordinator | }"]
43 Arlington [label=" { Site | Arlington Site Director/
    Coordinator | Lester Wright }"]
44 Harrisburg [label=" { Harrisburg Site | Site Director/
    Coordinator | Erica Wurm }"]
45 HamptonRoads[label=" { Hampton Roads Site | Site Director/
    Coordinator | tbd }"]
46
47 ElPaso [label=" { El Paso Site | Site Director/Coordinator
    | Michael Moore }"]
48

```

```

49     rankdir=TB;
50     Troy --- GlobalCampus;
51     Troy --- PhenixCity;
52     Troy --- Dothan;
53     Troy --- Montgomery;
54
55     PhenixCity --- FtBenning;
56
57     GlobalCampus --- Orlando;
58     GlobalCampus --- FtWaltonBeach;
59     GlobalCampus --- Atlanta;
60     GlobalCampus --- Augusta;
61     GlobalCampus --- SanAntonio;
62
63     Orlando --- Tampa;
64
65     FtWaltonBeach --- Hurlburt;
66     FtWaltonBeach --- Eglin;
67     FtWaltonBeach --- Pensacola;
68     FtWaltonBeach --- PanamaCity;
69     FtWaltonBeach --- Tyndall;
70
71     Augusta --- FtGordon;
72     Augusta --- Brunswick;
73     Augusta --- Savannah;
74     Augusta --- Sumter;
75     Augusta --- Fayetteville;
76
77     Atlanta --- Albany;
78     Atlanta --- Covington;
79     Atlanta --- Clarksville;
80     Atlanta --- Norfolk;
81     Atlanta --- Arlington;
82     Atlanta --- Harrisburg;
83     Atlanta --- HamptonRoads;
84
85     SanAntonio --- ElPaso;
86
87 }

```