Chapter 9

Graphviz – Graph Visualization Software

9.1   Introduction

9.2   Graphviz package

Graphviz - Graph Visualization Software
Envisioning connections

http://www.graphviz.org/Download.php

Windows
Stable and development Windows Install packages
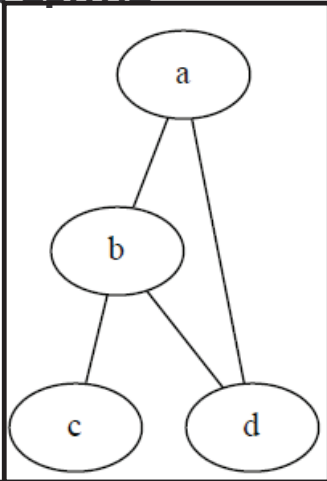
graphviz	current stable release
Windows	graphviz-2.38.msi
	graphviz-2.38.zip

graphviz-2.38.zip   6/16/2015 4:16 PM   Compressed (zipp...   50,689 KB

Extract all files to a folder
example c:/jag/graphviz

```
      1.dot
graph graphname {
    a -- b;
    b -- c;
    b -- d;
    d -- a;
}
```

C:\jag\graphviz\bin\dot.exe -Tpdf 1.dot 1.pdf

http://www.tonyballantyne.com/graphs.html
http://www.graphviz.org/Documentation/dotguide.pdf
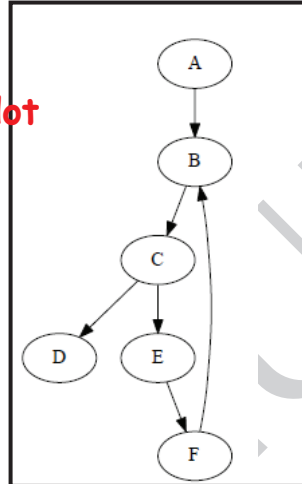
Figure 9.1: Installing **Graphviz package**

9.3   Example 1

C:\work\daa\dot\examples\2.dot

2.dot

```
digraph {
    A -> B -> C -> D;
    C -> E -> F;
    F -> B;
}
```
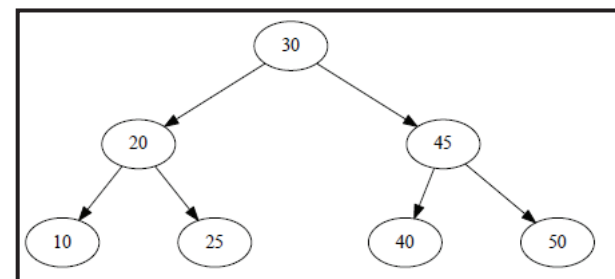

C:\jag\graphviz\bin\dot.exe -Tpdf 2.dot 2.pdf

C:\work\daa\dot\examples\tree.dot

tree.dot

```
digraph G {
    {node[style=invis,label=""]; cx_30;
    }
    {rank=same; 20; 45; cx_30}
    {rank=same; 10; 25;}
  {rank=same; 40; 50}
    30 -> 20;
    30 -> 45;
    20 -> 10;
    20 -> 25;
    45 -> 40;
    45 -> 50;
    {edge[style=invis];
    //Distantiate nodes
    30 -> cx_30;
    20 -> cx_30 -> 45;

    //Force ordering between childs
     10:e -> 25:w;
     40:e -> 50:w;
  } C:\jag\graphviz\bin\dot.exe -Tpdf tree.dot tree.pdf
}
```


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Figure 9.2: Example 1