

## GRAPHVIZ - DOT

lien utile : <http://www.graphviz.org/>

```

1  digraph structs {
2      node [shape=record];
3      struct1 [shape=record, label="<f0> gauche | <f1> milieu | <f2> droite"];
4      struct2 [shape=record, label="<f0> un | <f1> deux"];
5      struct3 [shape=record, label="Hello\nWorld | {b | {c | <ici>d | e} | f} | g | h"];
6      struct1 -> struct2;
7      struct1 -> struct3:ici [arrowhead=dot];
8      node [shape=box, style=filled, color="0.0 0.0 0.5"];
9      edge [color=red, style=dotted]
10     struct2:f1 -> trois;
11 }

```

FIG. 1 – Code dot utilisant la forme (*shape*) *record* (fichier multicells.dot).

```

1  digraph G {
2      i [label="Deux formes"];
3      subgraph cluster01 {
4          node [shape = box, style = filled, fillcolor = grey];
5          style = filled;
6          a -> b -> c;
7          label = "Carre";
8          fillcolor = red;
9      }
10     subgraph cluster02 {
11         node [shape = doubleoctagon, style = filled, fillcolor = lightgrey];
12         style = filled;
13         d -> e -> f;
14         label = "double-octagone";
15         fillcolor = blue;
16         fontcolor = white
17     }
18     i -> a; i -> d;
19     edge [style = dotted, label = "???"];
20     a -> f;
21 }

```

FIG. 2 – Code dot utilisant les sous-graphs.

```

1  digraph G {
2      node[shape=record,width=2];
3      n1[label="{<c>1|{<g>|<d>}}"];
4      n2[label="{<c>2|{<g>|<d>}}"];
5      n3[label="{<c>3|{<g>|<d>}}"];
6      n4[label="{<c>4|{<g>|<d>}}"];
7      n5[label="{<c>5|{<g>|<d>}}"];
8      n6[label="{<c>6|{<g>|<d>}}"];
9      n7[label="{<c>7|{<g>|<d>}}"];
10     n8[label="{<c>8|{<g>|<d>}}"];
11     n9[label="{<c>9|{<g>|<d>}}"];
12     n10[label="{<c>10|{<g>|<d>}}"];
13     n6:g->n4; n6:d->n8;
14     n4:g->n2; n4:d->n5;
15     n2:g->n1; n2:d->n3;
16     n8:g->n7; n8:d->n9;
17     n9:d->n10;
18 }

```

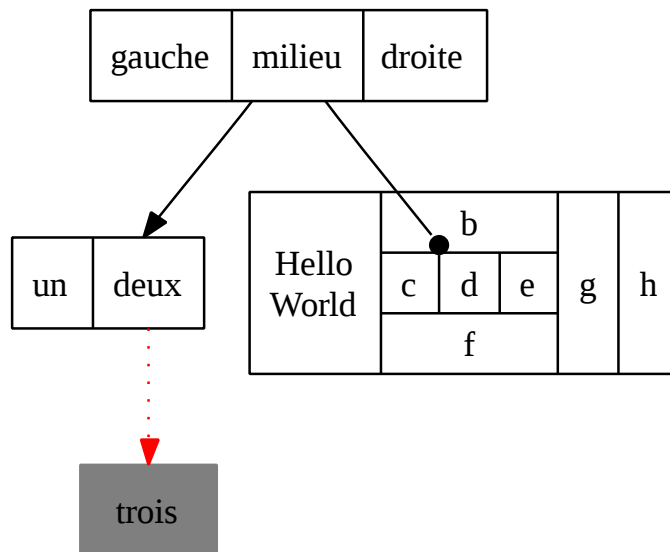
FIG. 3 – Code dot fabriquant un arbre binaire.

```

1  main = arbrebinaire
2  ext = ps
3  ifeq ($(ext), ps)
4      VIEW = gv
5  else
6      VIEW = xv
7  endif
8  DOT = ~/amsi/DOT/bin/dot
9
10 all: $(main).$(ext)
11
12 $(main).$(ext): $(main).dot
13     $(DOT) -T$(ext) $(main).dot -o $@
14     $(VIEW) -f $@
15
16 clean:
17     rm -f $(main).$(ext) *~

```

FIG. 4 – Exemple de makefile pour dot.

FIG. 5 – Résultat obtenu après compilation du code FIG. 1 (`dot -Tps multicells.dot -o multicells.ps`).

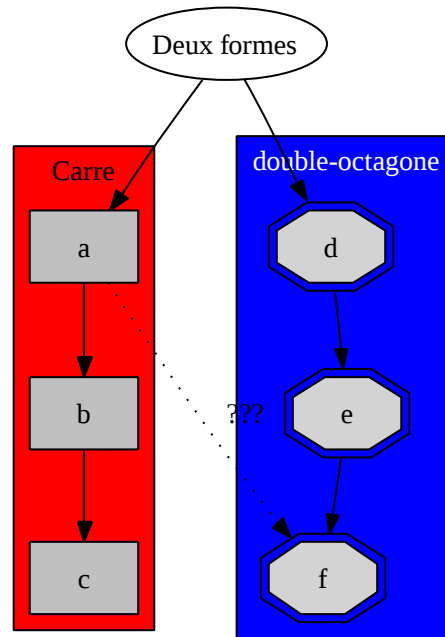


FIG. 6 – Résultat obtenu après compilation du code FIG. 2.

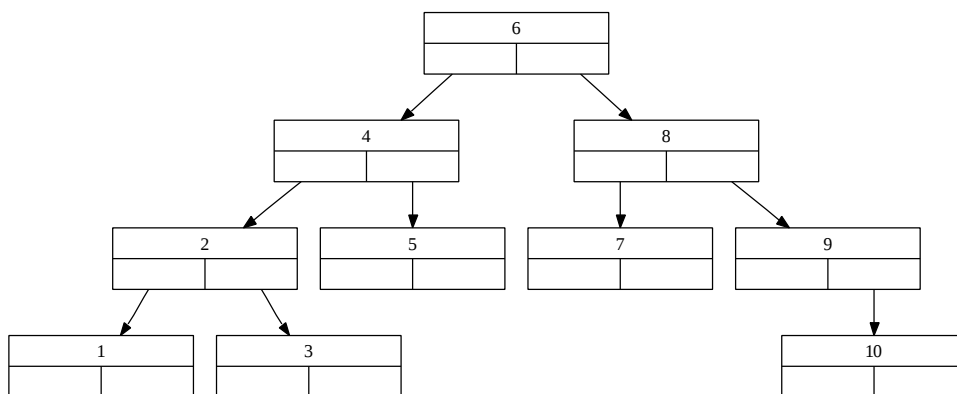


FIG. 7 – Résultat obtenu après compilation du code FIG. 3.