```
a
          {"name": "a", "depth": 0}, {"name": "b", "depth": 1}, {"name": "c", "depth": 1}, {"name": "d", "depth": 2}, {"name": "f", "depth": 2}
 3
                                                                                                                              b
                                                                                                             a
 4
 5
 6
 7
       "links": [
           {"source": 0, "target": 1},
 8
                                                                                                                    C
          {"source": 0, "target": 2},
 9
          {"source": 1, "target": 3},
10
          {"source": 2, "target": 4},
11
           {"source": 2, "target": 5}
12
13
14
        "constraintDefinitions": [
15
             "name": "layer"
16
             "sets": {"partition": "depth"},
17
                                                                                                                          3 sets: [a], [b,c], [d,e,f]
             "forEach": [{ "constraint": "align", "axis": "x" }]
18
                                                                                                                                    3 constraints
19
20
             "name": "sort",
21
             "sets": ["layer"],
22
                                                                                                                                    1 set: "layer"
             "forEach": [{ "constraint": "order", "axis": "y", "by": "depth" }]
23
                                                                                                                                    8 constraints
24
25
       ]
26
    }
 1
 2
                                                                                                                                            C
          {"name": "a", "_id": 0, "depth": 0}, {"name": "b", "_id": 1, "depth": 1}, {"name": "c", "_id": 2, "depth": 1}, {"name": "d", "_id": 3, "depth": 2}, {"name": "e", "_id": 5, "depth": 2},
 3
 4
 5
 6
             "name": "boundary0", "_id": 6, "cid": "set0_order",
 7
             "temp": true, "fixed": true,
 8
             "width": 1, "height": 1, "padding": 0, "boundary": "y", "y": 0, "x": 0,
 9
10
                                                                                                                          Two temporary nodes
11
                                                                                                                        are added to the graph
12
                                                                                                                        to act as boundaries for
             "name": "boundary1", "_id": 7, "cid": "set0_order",
13
                                                                                                                            the order constraint.
             "temp": true, "fixed": true,
14
             "width": 1, "height": 1, "padding": 0, "boundary": "y", "y": 30, "x": 10,
15
16
17
18
        "links": [...],
19
20
        "constraints": [
21
             "_type": "layer_align",
28
             "type": "alignment", "axis": "y"
29
             "offsets": [{"node": 0,"offset": 0}]
30
31
                                                                                                                             We generate three
32
                                                                                                                           WebCoLa alignment
             "_type": "layer_align",
33
             "type": "alignment", "axis": "y",
                                                                                                                             constraints: one for
34
                                                                                                                          each set produced by
             "offsets": [{"node": 1,"offset": 0},{"node": 2,"offset": 0}],
35
                                                                                                                            the SetCoLa "layer"
36
                                                                                                                           constraint definition.
37
             "_type": "layer_align",
38
             "type": "alignment", "axis": "y"
39
             "offsets": [{"node": 3,"offset": 0},{"node": 4,"offset": 0},{"node": 5,"offset": 0}]
40
41
           {"_type": "set0_order", "axis": "y", "gap": 0, "left": 0, "right": 6},
42
                                          , "axis": "y"
              type": "set0_order"
                                                               "gap": 0, "left": 6, "right": 1},
                                                                                                                             We generate eight
43
          {"_type": "set0_order", "axis": "y", "gap": 0, "left": 1, {"_type": "set0_order", "axis": "y", "gap": 0, "left": 6, {"_type": "set0_order", "axis": "y", "gap": 0, "left": 2, {"_type": "set0_order", "axis": "y", "gap": 0, "left": 7, {"_type": "set0_order", "axis": "y", "gap": 0, "left": 7, {"_type": "set0_order", "axis": "y", "gap": 0, "left": 7, {"_type": "set0_order", "axis": "y", "gap": 0, "left": 7,
                                                                                             "right": 7},
                                                                                                                             WebCoLa position
44
                                                                                             "right": 2},
                                                                                                                        constraints to order the
45
                                                                                             "right": 7},
                                                                                                                          three layers based on
46
                                                                                             "right": 3},
                                                                                                                             the SetCoLa "sort"
47
                                                                                             "right": 4},
48
                                                                                                                           constraint definition.
                                                              "gap": 0, "left": 7,
                                                                                             "right": 5}
49
50
51 }
```

1 {

2

"nodes": [