

```
1 "guides": [{ "name": "top", "y": 50}, { "name": "boundary", "y": 100}, { "name": "bottom", "y": 400}],
2 "constraintDefinitions": [
3   {
4     "name": "ethnographic groups",
5     "sets": { "partition": "group", "exclude": ["other"]},
6     "forEach": [
7       { "constraint": "position", "position": "below", "of": "boundary", "gap": 75},
8       { "constraint": "position", "position": "above", "of": "bottom", "gap": 30 }
9     ]
10  },
11  {
12    "sets": [
13      { "expr": "node.group === 'young white men'"},
14      { "expr": "node.group === 'younger white women' || node.group === 'other'"},
15      { "expr": "node.group === 'young african american men'"}
16    ],
17    "forEach": [
18      { "constraint": "order", "axis": "x", "by": "_exprIndex", "band": 300, "gap": 30 }
19    ]
20  },
21  {
22    "name": "other individuals",
23    "sets": { "partition": "group", "include": ["other"]},
24    "forEach": [
25      { "constraint": "position", "position": "below", "of": "top", "gap": 5},
26      { "constraint": "position", "position": "above", "of": "boundary", "gap": 5},
27      { "constraint": "padding", "amount": 8 }
28    ]
29  },
30  {
31    "name": "women",
32    "sets": { "partition": "group", "include": ["younger white women"]},
33    "forEach": [{ "constraint": "circle", "around": "center", "radius": 75}]
34  },
35  {
36    "name": "men",
37    "sets": { "partition": "group", "exclude": ["younger white women", "other"]},
38    "forEach": [
39      { "constraint": "align", "axis": "y"},
40      { "constraint": "padding", "amount": 10 }
41    ]
42  }
43 ]
```

3 sets

28 constraints

28 constraints

3 sets

82 constraints

1 set

13 constraints

13 constraints

padding added to 13 nodes

1 set

32 new edges added

2 sets

2 constraints

padding added to 12 nodes