

Design Rules

- Rectangles must not intersect
- Circles must intersect edge of exactly one rectangle
- etc.

```
orphanport(ID):-  
  circle(ID,_),  
  \+ contains(_,ID).
```

Factbase

- Factbase: triple store
 - use exhaustive search for queries (e.g. backtracking)
 - e.g. PROLOG, (datalog, minikanren, core.logic, nested loops)
- Start with facts from diagram editor
 - rect, ellipse, text, connection, x, y, width, height, color, etc.
- Incrementally augment with new facts
 - multiple passes
 - each pass outputs new facts
 - fb += new facts
- (discarding facts is an optimization, not needed)
- (backtracking engine *skips over* facts that are not needed by the rules)