

# Heterogeneous types and combinations

elicit wishes, goals, and preferences of users on the scale *they* want  
resolve them in Pareto-style, lexicographically or by means of voting

```
PVS: students = new WeightedCsp("students") {
  maxWeight: '100';
  soft-constraint raubholz: 'sd[raubholz] in {monday, tuesday}';
  soft-constraint schraubale: 'sd[schraubale] in {tuesday, wednesday}';
  soft-constraint meerfluss: 'sd[meerfluss] in {tuesday}';
  soft-constraint ayman: 'sd[ayman] in {monday, tuesday}';
  soft-constraint kanye: 'sd[kanye] in {monday, wednesday}';
  % hard by weight (less than bottom)
  soft-constraint kanye-vacation: 'sd[kanye] != tuesday'
    :: weights('101');
};
PVS: teachers = new CostFunctionNetwork("teachers") {
  soft-constraint scheduledDates: 'scheduledDates';
};
solve students lex teachers;
```