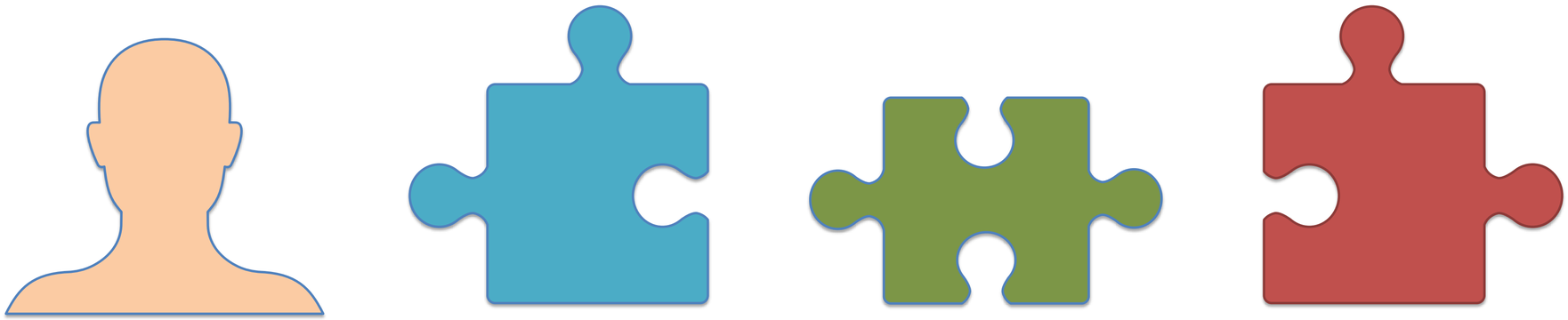
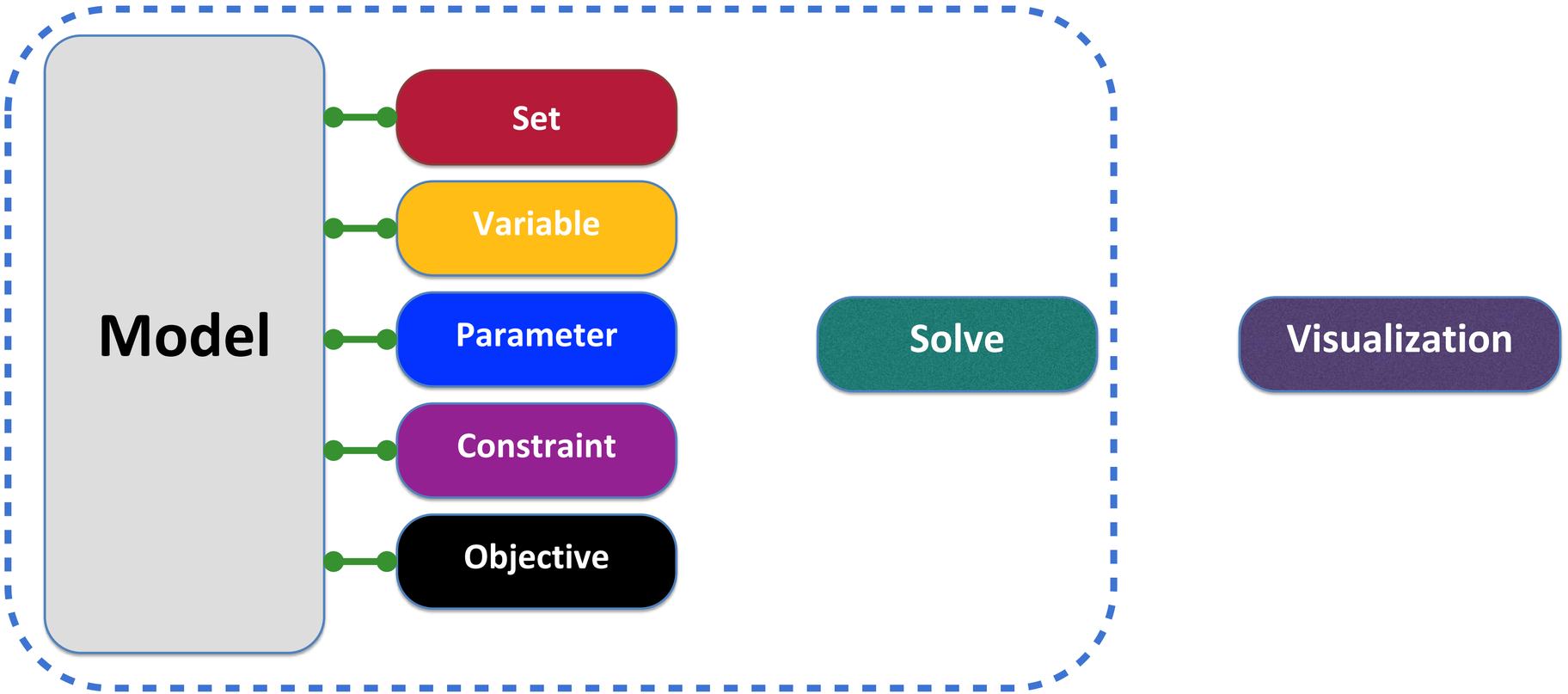
Pyomo elements



You Problem Pyomo Solver

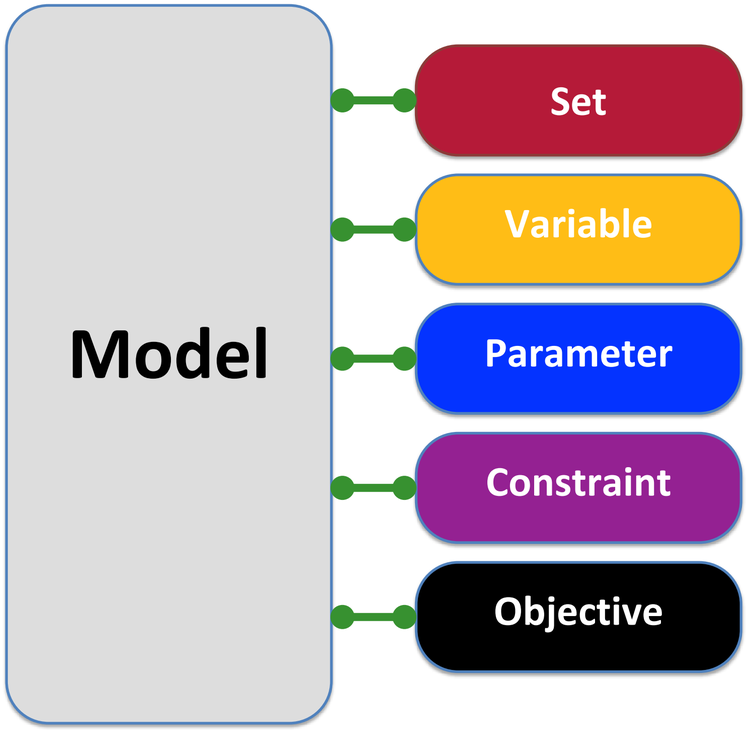
Pyomo elements

model = AbstractModel()
model = ConcreteModel()



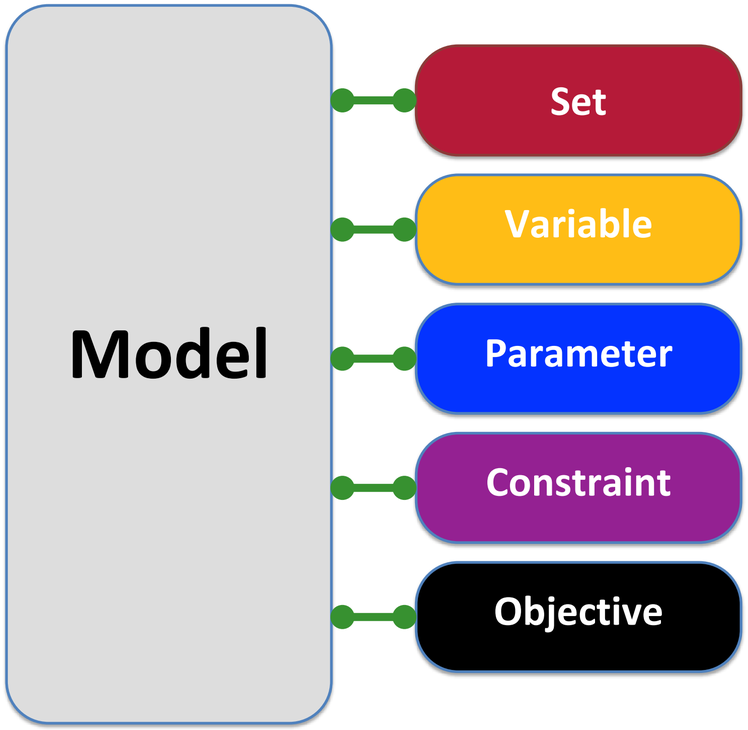
Pyomo

Pyomo elements



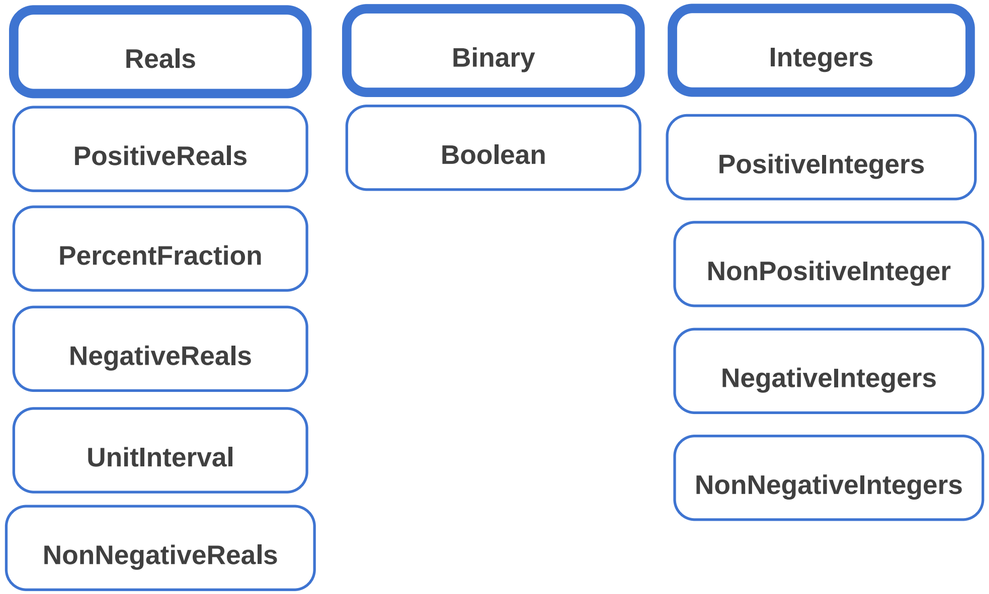
model.i = RangeSet(1, model.N)
model.i = Set()

Pyomo elements

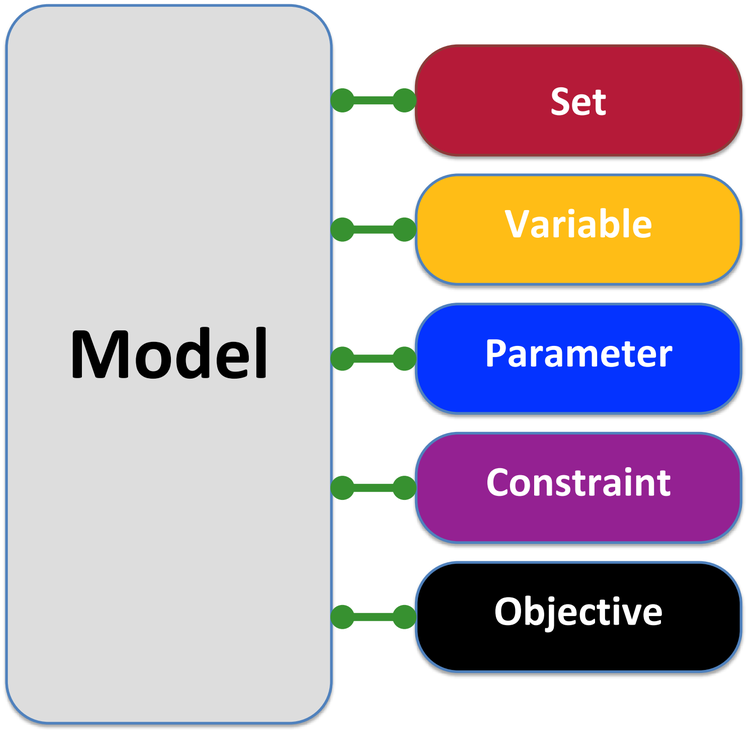


model.X = Var(model.i,model.kolor, domain=Binary)

model.x=Var(bounds=(0,model.R), initialize=model.R)

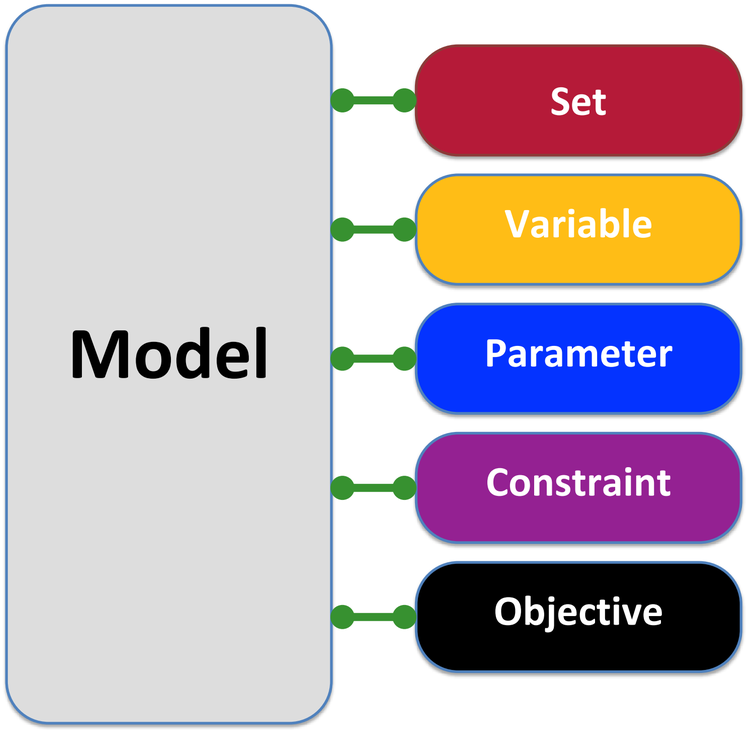


Pyomo elements



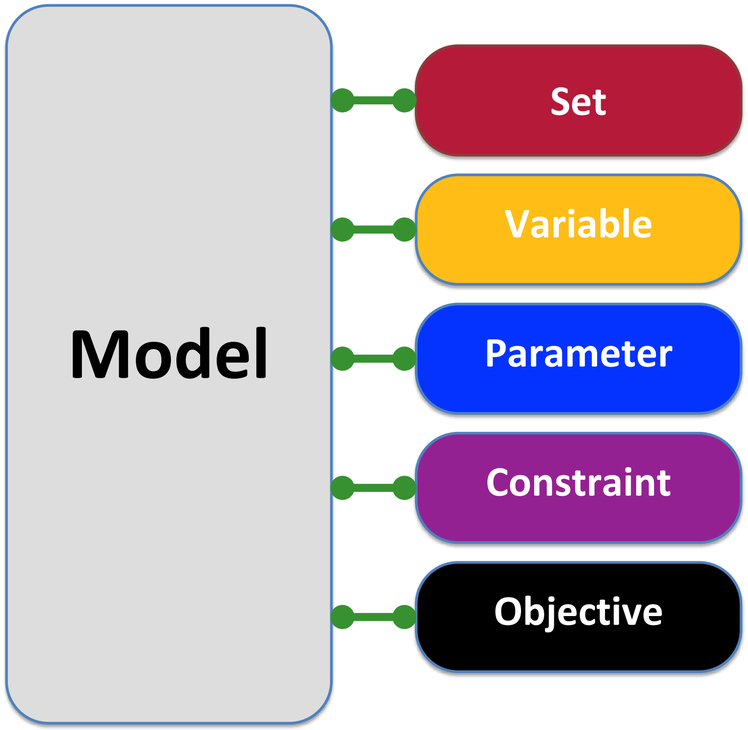
model.L = Param(model.i,model.j, default=0,mutable=True)

Pyomo elements



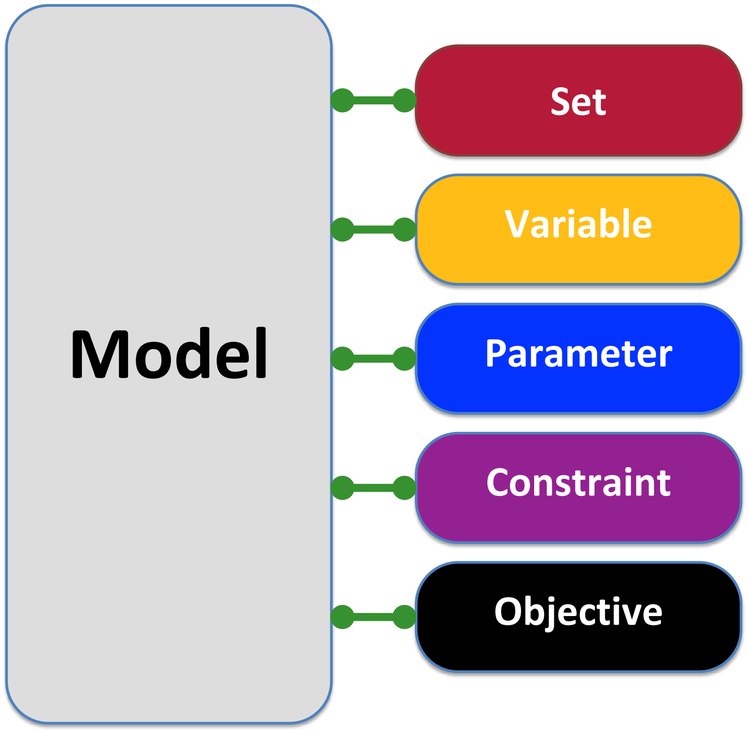

```
def Crow_rule(model,i):
    return sum(model.U[i,j] for j in model.j)<=1
model.Crow = Constraint(model.i, rule=Crow_rule)
```

Pyomo elements




```
def Obj_rule(model):
    return sum(model.U[i,j] for i in model.i for j in model.j)
model.obj = Objective(rule=Obj_rule, sense=maximize)
```

Pyomo elements



Solve

Visualization

```
opt = SolverFactory('ipopt')
results=opt.solve(model);
```

```
opt = SolverFactory('Ipopt')
instance = model.create_instance("EX33B.dat")
results = opt.solve(instance)
```

Pyomo elements