Sieve:

Schema annotations & global invariants

```
@AddRemoveSet CREATE TABLE MovieTable (
  PRIMARY KEY (movie id),
  @TrackDeltas tickets_remaining INT,
  . . .
 ENGINE=InnoDB
forall(m in MovieTable) :- m.tickets >= 0
```

Quelea:

Visibility annotations

```
Indiao:
```

Global invariants, post-condition annotations

```
@Invariant("forall(Movie : m) :- tickets(m) >= 0")
public interface MovieTickets {
  @PostCondition_Decrements("tickets(m, 1)")
 void sellTicket(Movie m);
```

forces strong consistency (overly conservative)

$$\forall (a : sellTicket). sameobj(a, \eta) \Rightarrow a = \eta \lor vis(a, \eta) \lor vis(\eta, a)$$