## 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

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

## Indigo:

Global invariants, post-condition annotations

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