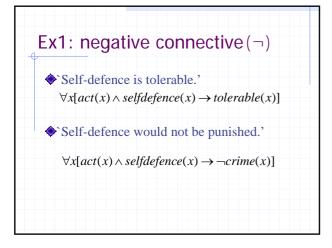
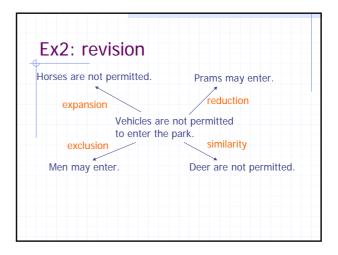




Inconsistency checker Influence on code change, revision, or update Necessity of logical consistency







Nonmonotonic reasoning Belief revision - expansion - revision - contraction Default logic Circumscription

```
Circumscription \{r(a), p(x) \rightarrow r(x), q(x) \rightarrow r(x)\}
\downarrow \text{Predicate completion}
r(x) \rightarrow p(x) \lor q(x) \lor (x = a)
```

`Vehicles are not permitted, exclusive of small and ones.' $vehicle(x) \rightarrow \neg permitted(x).$ $vehicle(x) \land light(x) \rightarrow permitted(x).$ circumscription $permitted(x) \rightarrow \neg vehicle(x) \lor (vehicle(x) \land light(x))$

