# GWV, Blatt 07

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### 1. Assumables

- $\bullet$  buttler\_worked
- buttler did not work
- gardener\_worked
- gardener\_did\_not\_work

### Observations

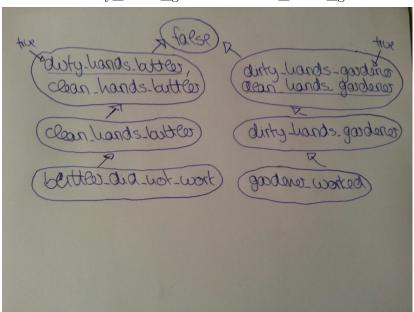
- $\bullet \ dirty\_hands\_buttler \leftarrow$
- clean\_hands\_gardener  $\leftarrow$

## Regeln

- $\bullet$  clean\_hands\_buttler  $\leftarrow$  buttler\_did\_not\_work
- $\bullet \ dirty\_hands\_gardener \leftarrow gardener\_worked$

# **Integrity Constraints**

- false  $\leftarrow$  dirty\_hands\_buttler  $\land$  clean\_hands\_buttler
- false  $\leftarrow$  dirty\_hands\_gardener  $\land$  clean\_hands\_gardener



# Minimaler Konflikt

{buttler\_did\_not\_work} und {gardener\_worked}

### Minimale Diagnose

{buttler\_did\_not\_work, gardener\_worked}

Es muss also gelten, dass der Buttler gearbeitet hat, bzw der Gärtner nicht gearbeitet hat, da es ansonsten zu einem Widerspruch kommen würde.

Knowledge base:

noise\_1 <- starter\_on noise\_2 <- fuelPump\_on noise3 <- engine\_on  $fuel Pump\_on <-\ electronic Fuel Regulation\_on, fuel Tank\_full, fuel Pump\_ok$ filer\_on <- filter\_ok , fuelPump\_on engine\_on <- starter\_on, engine\_ok starter\_on <- ignitionKey\_on, starter\_ok ignitionKey\_on <- battery\_on, ignitionKey\_ok battery\_on <- battery\_full, battery\_ok electronicFuelRegulation\_on <- battery\_on, electronicFuelRegulation\_ok fuelTank\_on <- fuelTank\_full, fuelTank\_ok

#### Integrity constraints:

false <- noise1, not\_noise1 false <- noise2, not\_noise2 false <- noise3, not\_noise3

Assumables:

Alles mit \_ok und \_full

only noise 1: noise 1 1 no\_noise 1
true

storter\_on 1 no\_noise 1 gron solarder ok no no noise 1 battery-on sign-ok starter ok starter ok som noise 1 batery ok a battery full a ign - ok a stater-ok a no-roise! min conflict; { battery ok, battery Sull, ignition-ok, starter & } only noise 2:

(frelpump = Sp)

(clackmonic Spel regulation = Edir)

(development = Sp)

(development = Sp

min - conflict: {b.ok, b.fall, efrok, ff-full, Alok, fp-oh}

# noise 1 1 noise 2 1 moise 3

min conflict: { J\_ok, e\_ok}