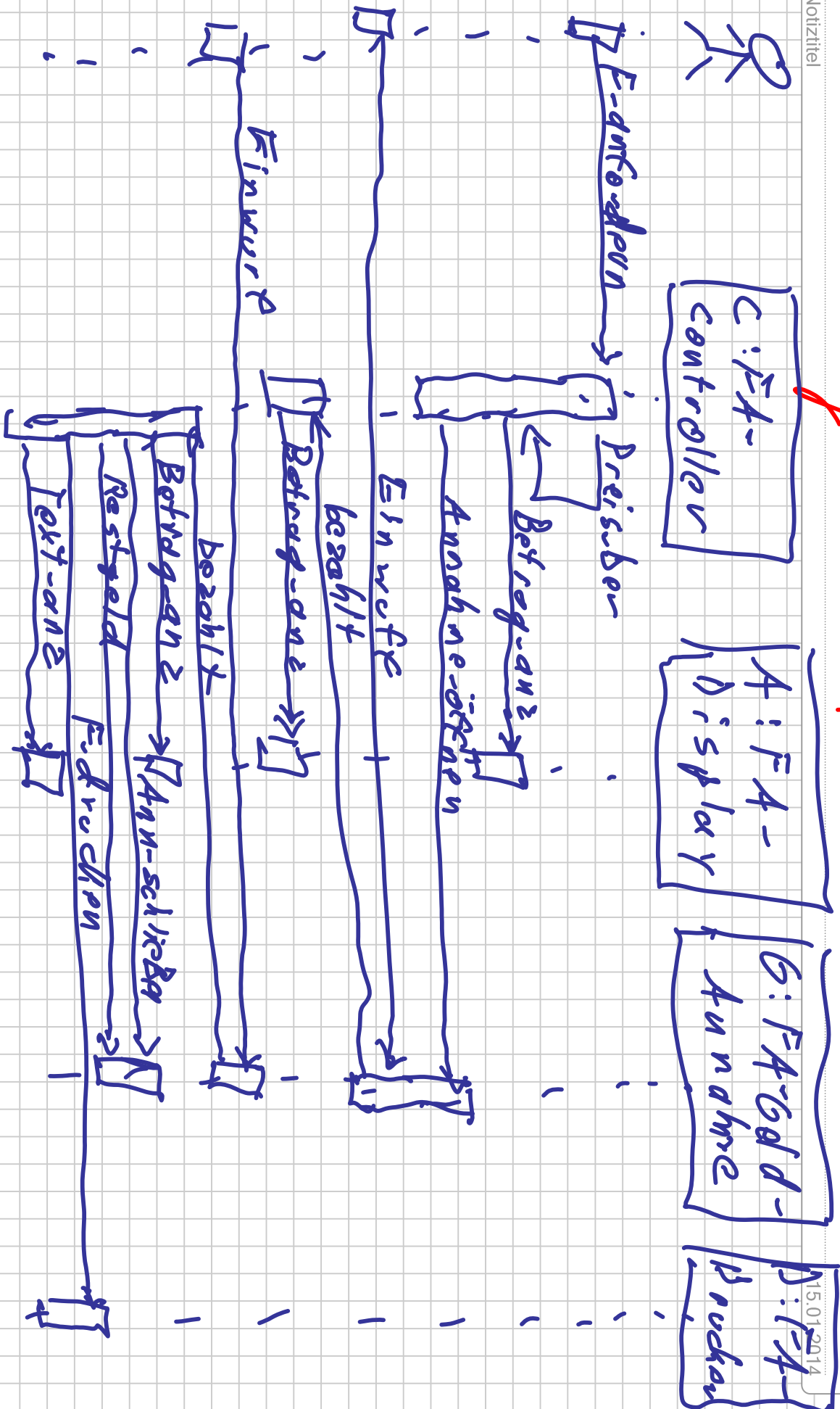


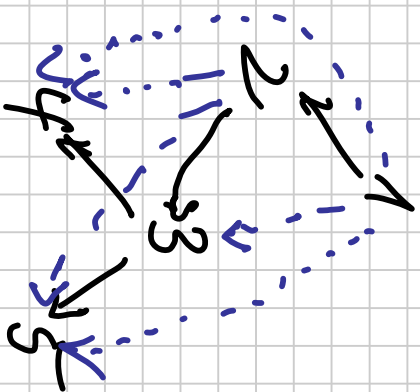
# Modellierung 7.5.1.14

Notiztitel

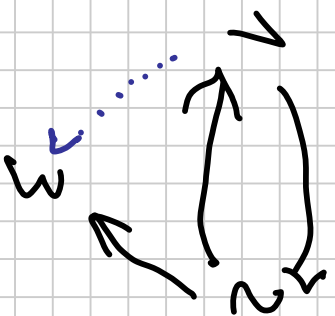
15.01.2014



# reflexiv-transitiv Hülle



Antisymmetrie.



$$R^* = \{(1,2), (2,3), (3,4), (3,5)\} \cup$$

$$\{(1,1), (2,2), (3,3), (4,4), (5,5), (1,3), (1,4), (1,5), (2,4), (2,5)\}$$

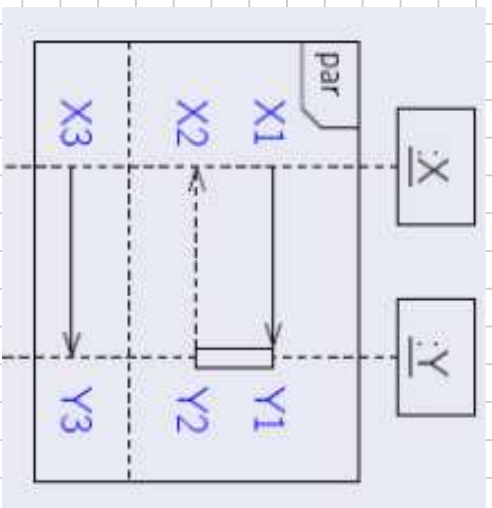
$$R' = R^* \cup \{(2,1), (3,2)\}$$

$R' \supseteq R$ ,  $R'$  reflexiv, transitiv, aber  $R^* \subsetneq R'$

$$R^R = \{(1,2), (2,1), (2,3), (1,1), (2,2), (3,3), (1,3)\}$$

$$(1,2) \in R \wedge (2,1) \in R \not\Rightarrow (1=2)$$

$\rightarrow$  nicht antisymmetrisch



Ordnung auf den Ereignissen

$$X_1 < Y_1 < Y_2 < X_2$$

$$X_3 < Y_3$$

mögliche Abläufe:

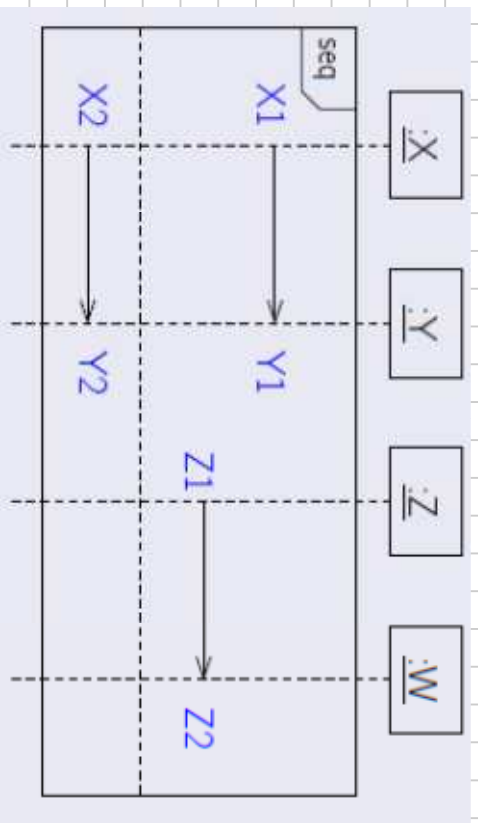
$$X_1, Y_1, X_3, Y_3, Y_2, X_2$$

$$X_1, X_3, Y_3, Y_1, Y_2, X_2$$

$$X_3, X_1, Y_1, Y_2, X_2, Y_3$$

$$R_1 = \{(X_1, Y_1), (Y_1, Y_2), (Y_2, X_2)\} \quad R_2 = \{(X_3, Y_3)\}$$

$$R_{\text{par}} = R_1 \cup R_2$$



Ordnung

$$X_1 < Y_1 < Z_1 < Z_2$$

$$X_2 < Y_2$$

$$X_1 < X_2$$

$$Y_1 < Y_2$$

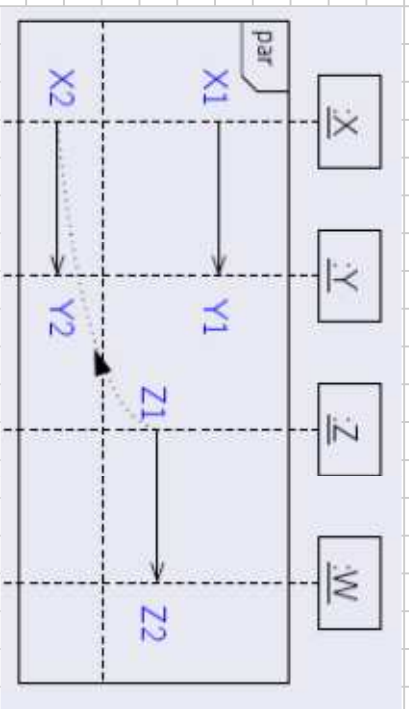
mögliche Abläufe:

$$X_1, X_2, Y_1, Z_1, Z_2, Y_2$$

$$X_1, Y_1, X_2, Y_2, Z_1, Z_2$$

$$X_1 < Y_1 < Z_1 < Z_2 < X_2 < Y_2$$





möglicher Ablauf

$X_1, Y_1, Z_1, X_2, Y_2, Z_2$

~~$X_1, X_2, Y_1, Z_1, Z_2, Y_2$~~

$X_1 < Y_1 < Z_1 < Z_2$

$X_2 < Y_2$

$X_1 < X_2$

$Y_1 < Y_2$

$Z_1 < X_2$

alt

[P6-Hunger > normal]

[P6-Hunger = normal]

[E1se]

: Partygast : Buffet : Snacks

