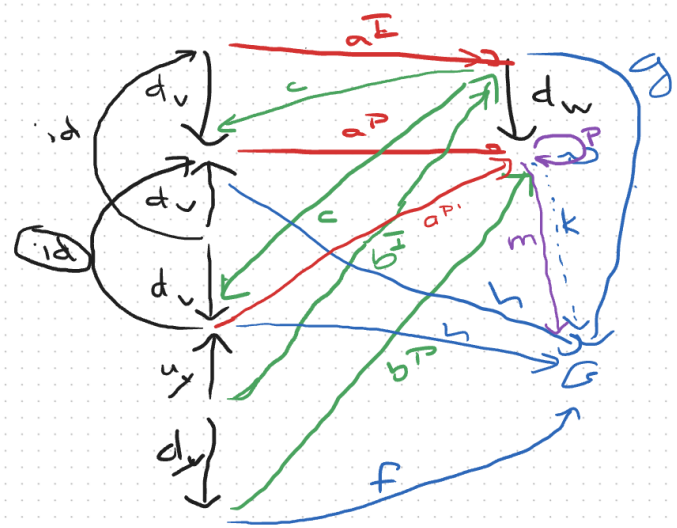

- $a^I ; d_w = d_v ; a^I$ — $b^I \; d_w = d_y ; b^P$
- b preserves U_y-prefixed models
- U_y is b^I-prefixed.

✓ $g = d_w ; k$
$h = a^P ; k$

$\phi_v \wedge \neg(\phi_v \wedge \neg\phi_y)$
$= \phi_v \wedge (\neg\phi_v \vee \phi_y)$
$= \phi_v \wedge \phi_y$

$b^P ; m = f$
$c ; h = d_w ; m$
$d_v = a^I ; c$
$d_w = c ; a^P$

$a^I ; g = d_v ; h$
$=$
$a^I ; c ; h$
$g = c ; h$
$= d_w ; m$

$u_y ; a^P \stackrel{?}{=} d_y ; b^P$
$=$
$b^I ; d_w$
$=$
$b^I ; c ; a^P$

$d_y ; b^P ; m = d_y ; f$
$=$
$b^I ; d_w ; m$
$=$
$b^I ; c ; a^P ; m$