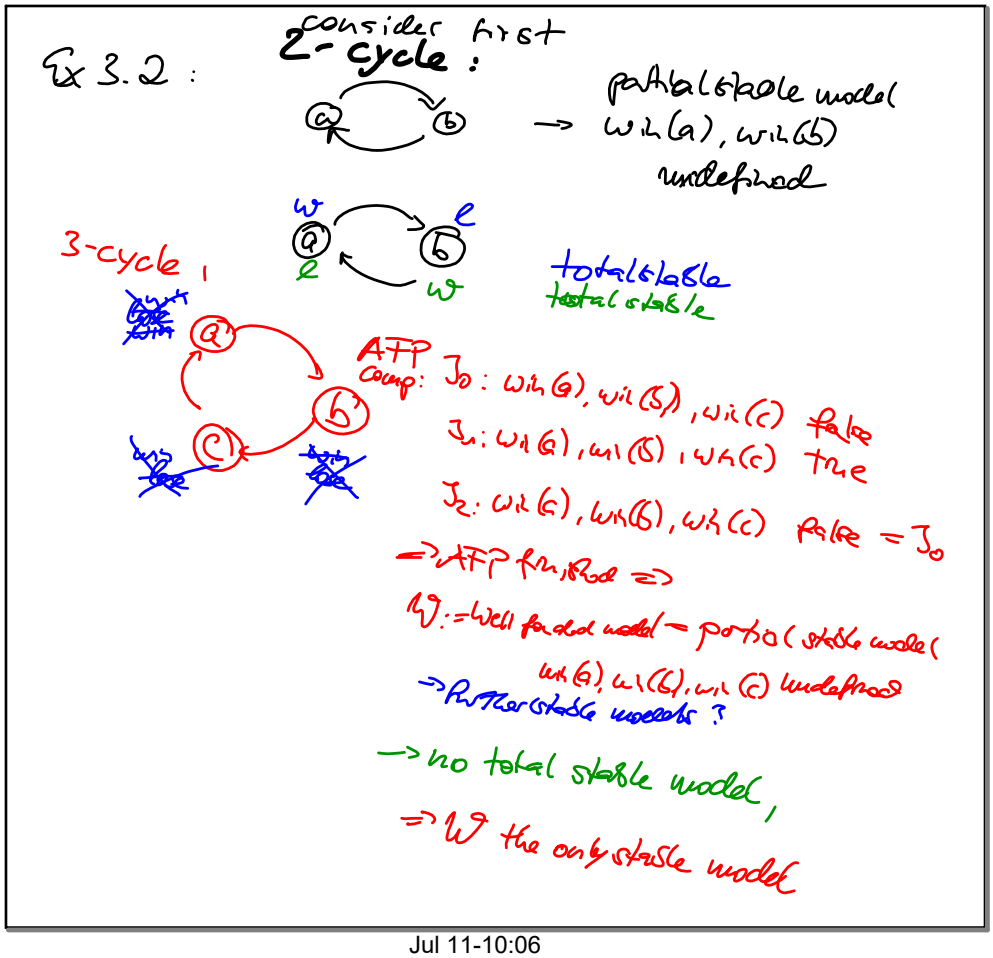
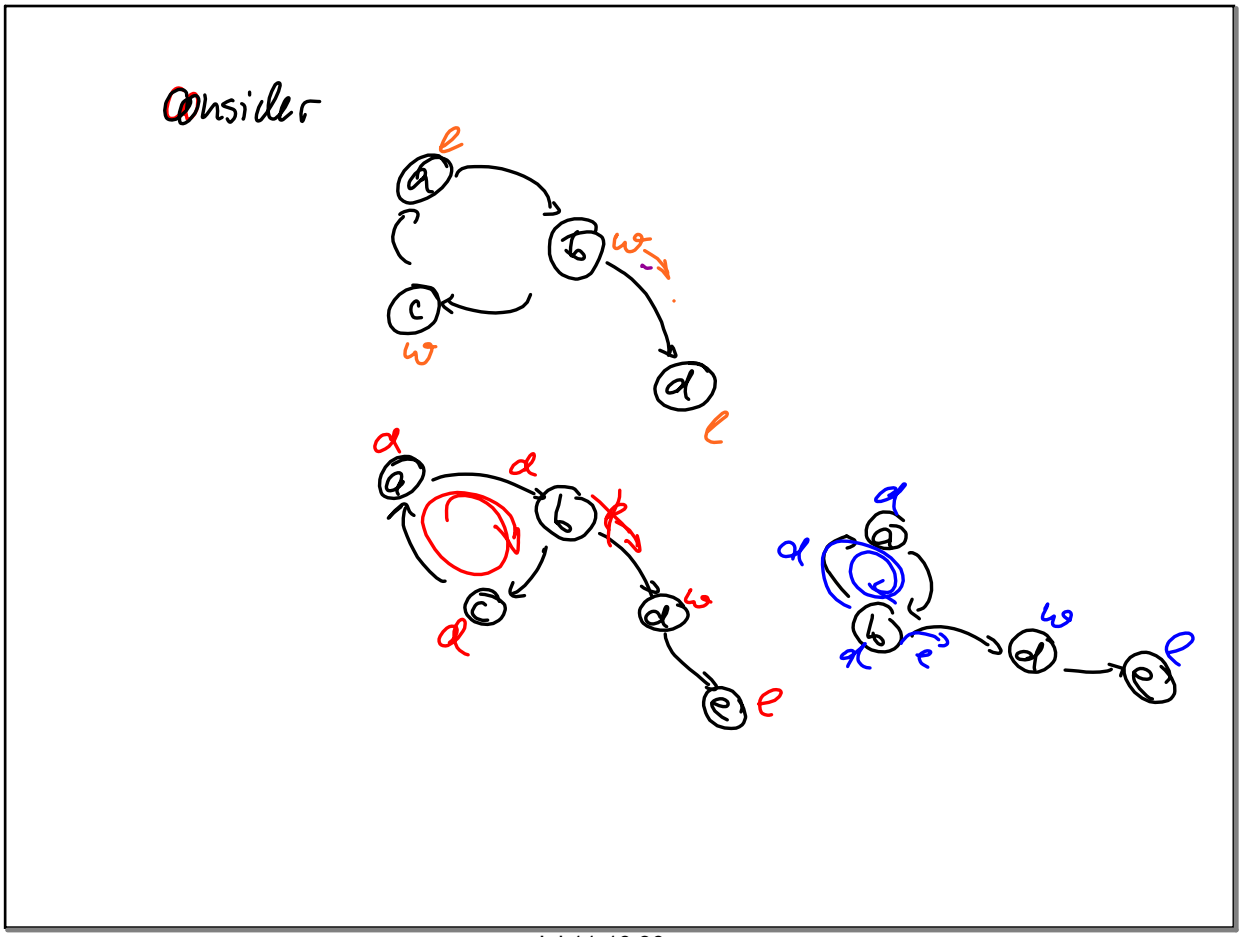


Jul 11-10:06



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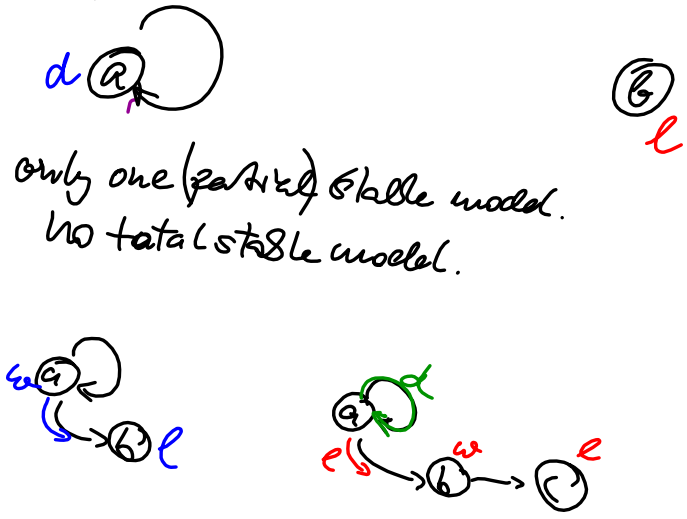
minimal example :



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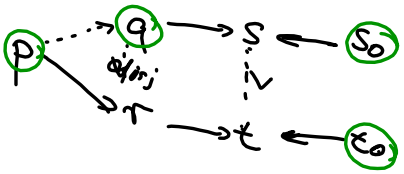
Ex 3.1 : consider partitioning of a set of objects

"classes" : p, q, r, s, t, ... "classification" unary predicates p(x), q(x), ...

p's are q's or r's
normal p's are r's

r(x) :- p(x), ¬ q(x).



green: EDB

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EDB: $p/1$, $q/1$, $s_0/1$, $t_0/1$

$r(x) :- p(x), \neg q(x).$

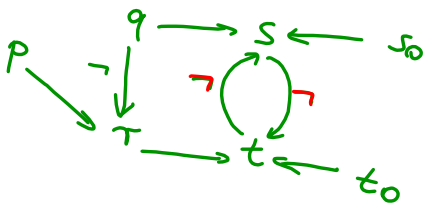
$s(x) :- s_0(x).$

$t(x) :- t_0(x).$

$s(x) :- q(x), \neg t(x).$

$t(x) :- r(x), \neg s(x).$

dependency graph:



⇒ only total stable models:
for every object o, it can be classified

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Ex 34: lookat w (=/=) ("guessed" part of a stable model)

w^{blue} part of the well-founded model

w^{red} part of the well-founded model (near dead end)

✓ correct, but "unfounded" guess

d_w

$f(w)$ obviously false guess (dead end)

✗ incorrect guess

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