Exercise 4: x.y.z | [x,y].w Interference

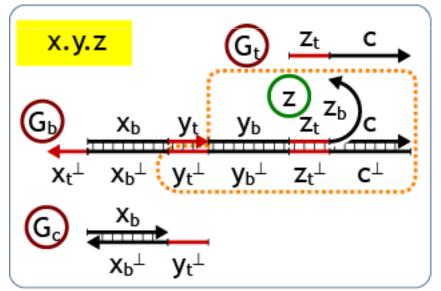
Consider curried gates without the a,b segments (example below): instead of releasing x_b , a and b, y_t segments, they would release x_b , y_t .

But that is exactly the strand r_1 of an [x,y].w gate: the strand that reverts the x input. This definitely causes an interference between x.y.z and [x,y].w.

Find a situation where the presence (x.y.z as below) or absence (x.y.z as in previous slide) of this interference causes different outcomes.

Hint: it changes outcome probability.

Note: the a,b segments prevent the interference.



c fresh; X_h, y_h generic (without the a,b segments)