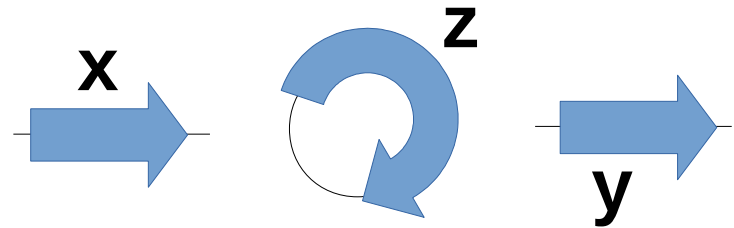
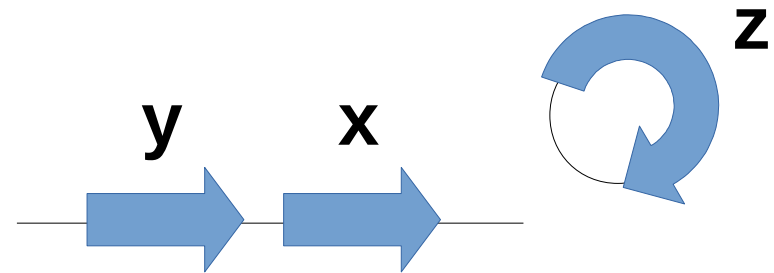


DCJ and Adjacency Graph

Genome A

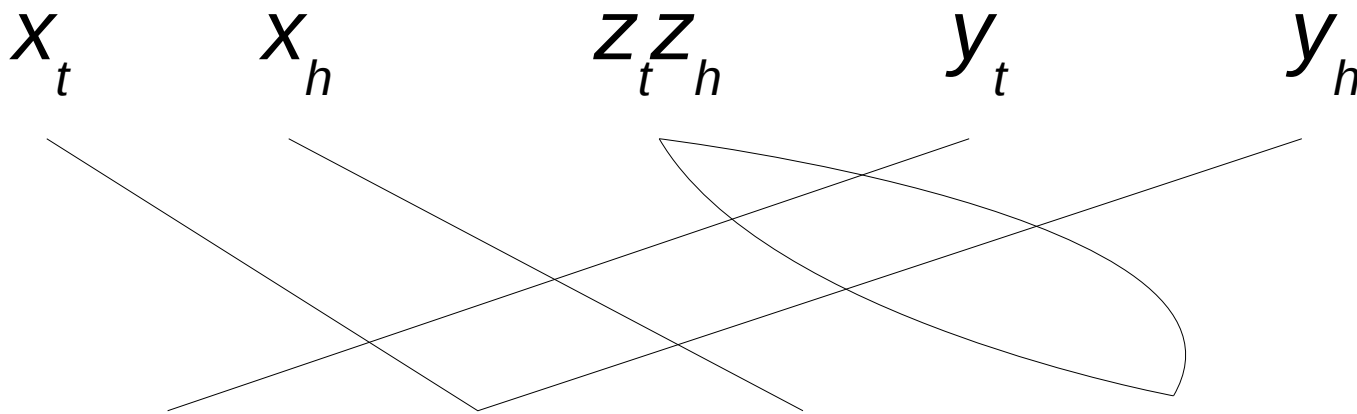


Genome B



Adjacency Graph

A:



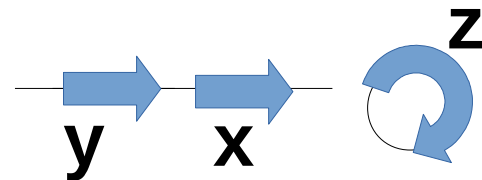
B:



A:



B:



DCJ and Adjacency Graph

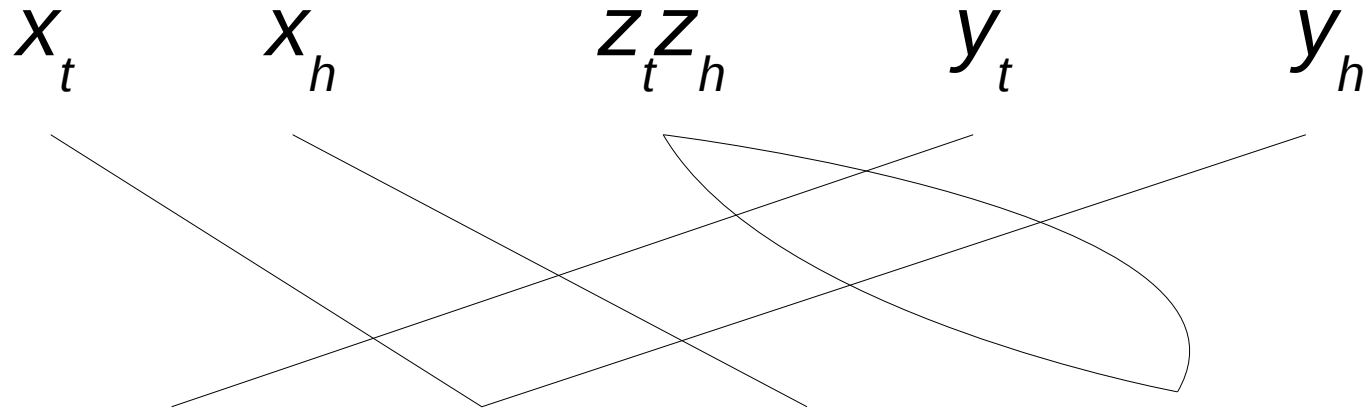
- Formula:

$$d_{\text{DCJ}} = N - C - P_{\text{odd}} / 2$$

- N = number of genes
- C = number of cycles
- P_{odd} = number of odd paths

Adjacency Graph

A:



B:



$$N - C - P_{\text{odd}} / 2 = 3 - 1 - 1 = 1$$

Paths in Adjacency Graph

- AG odd path = AB-path in YAF 2005
- AG even path = AA- or BB-path in YAF 2005
- Beware:
- AB-path is **even** in YAF 2005 !
- AA-path is **odd** in YAF 2005 !
- BB-path is **odd** in YAF 2005 !