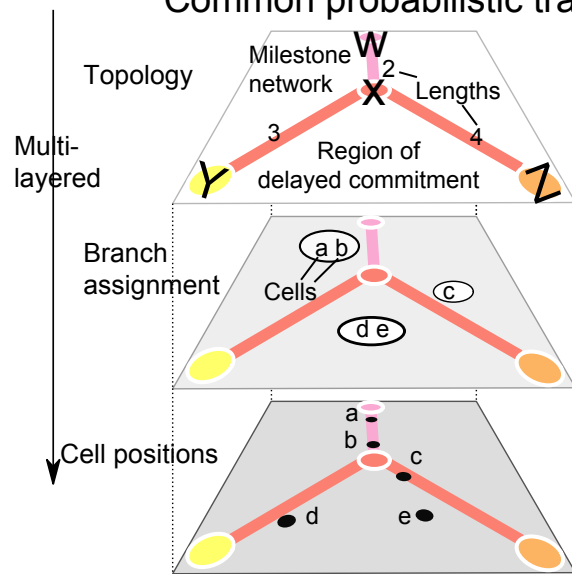
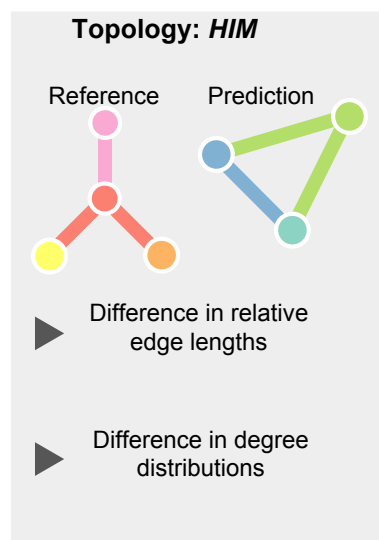


# Common probabilistic trajectory model

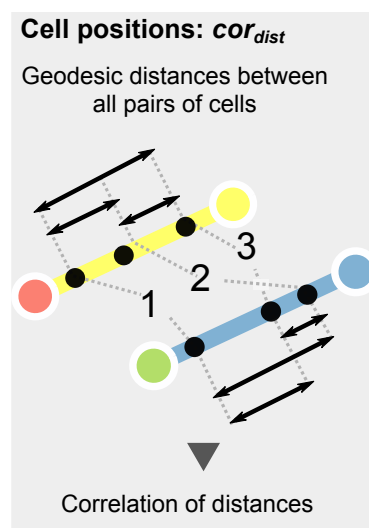
**A**



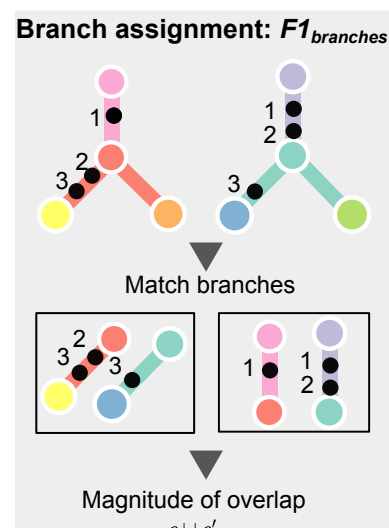
**B**



**C**



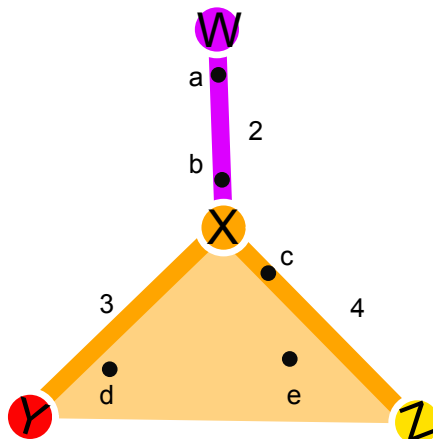
**D**



**E**

## Milestone percentages

region	to	is_begin
a	W	0.9
a	X	0.1
b	W	0.2
b	X	0.8
c	X	0.8
c	Z	0.2
d	X	0.2
d	Y	0.7
d	Z	0.1
e	X	0.3
e	Y	0.2
e	Z	0.5



## Milestone network

from	to	length
W	X	2
X	Y	3
X	Z	4

## Region of delayed commitment

region	to	is_begin
XYZ	X	TRUE
XYZ	Y	FALSE
XYZ	Z	FALSE

## pairwise geodesic distances

$$\begin{aligned}
 d(a,b) &= 2 \times (0.9 - 0.2) = 1.4 \\
 d(a,c) &= 2 \times 0.9 + 4 \times 0.2 = 2.6 \\
 d(b,c) &= 2 \times 0.2 + 4 \times 0.2 = 1.2 \\
 d(a,d) &= 2 \times 0.9 + 3 \times 0.7 + 4 \times 0.1 = 4.3 \\
 d(b,d) &= 2 \times 0.2 + 3 \times 0.7 + 4 \times 0.1 = 2.9 \\
 d(c,d) &= 3 \times (0.7 - 0) + 4 \times (0.2 - 0.1) = 2.5 \\
 d(a,e) &= 2 \times 0.9 + 3 \times 0.2 + 4 \times 0.5 = 4.4 \\
 d(b,e) &= 2 \times 0.2 + 3 \times 0.2 + 4 \times 0.5 = 3.0 \\
 d(c,e) &= 3 \times (0.7 - 0.2) + 4 \times (0.5 - 0.2) = 1.8 \\
 d(d,e) &= 3 \times (0.7 - 0.2) + 4 \times (0.5 - 0.1) = 3.1
 \end{aligned}$$

