

Computational Biology - 21/10/19

0.3 increases more as the distance increases

UPGMA - assumption of constant rates

is true if it is 3 D in speed of evolution

Least squares is good but $O(n!)$.

$$N_1 \xrightarrow{(\alpha)} N_2 \xrightarrow{(\beta)} W_3 \xrightarrow{(\gamma)} N_4$$

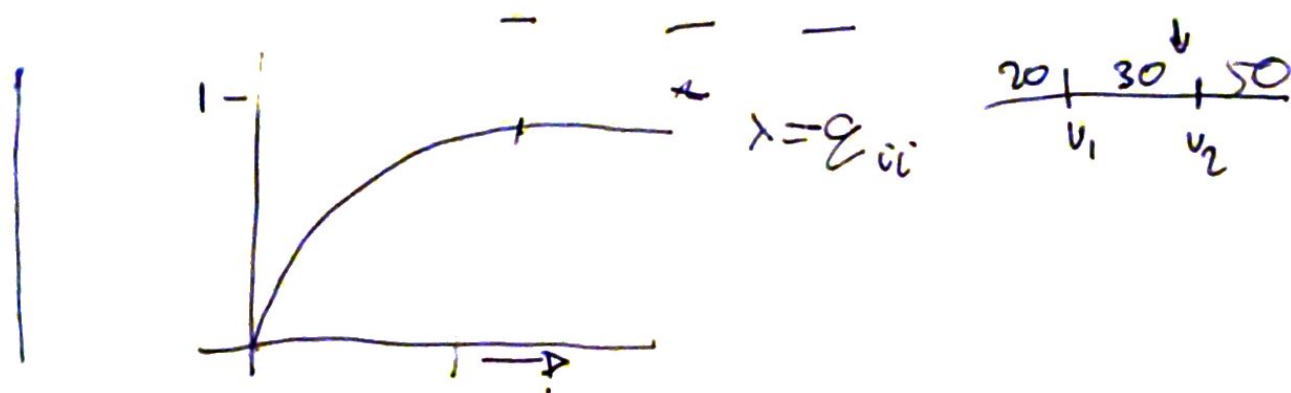
$$P(T \leq t) = e^{-\lambda t}$$

$$P(X > t) = e^{-q_{ii} t}$$

$$P(X \leq t) = 1 - e^{-q_{ii} t}$$

$$P(X > t) = e^{-q_{ii} t}$$

$$P(X \leq t) = 1 - e^{-q_{ii} t}$$



$$[\cdot \cdot \cdot]$$

Devil Mining 23/10/19

W-L \rightarrow gives a way to compute a topological description of the graph

\rightarrow does not solve the graph isomorphism problem

\vec{x} to $S(\vec{x})$

$$f(\vec{x}) = \begin{cases} 1 & \text{if } S(\vec{x}) \geq \theta \\ -1 & \text{if } S(\vec{x}) \leq 0 \end{cases} \quad \theta = \text{threshold}$$

ROC an only flip with ground truth is known.

AUC: area under ROC, prob(positive class).

Stratification \rightarrow not keep ratio of P/N.

