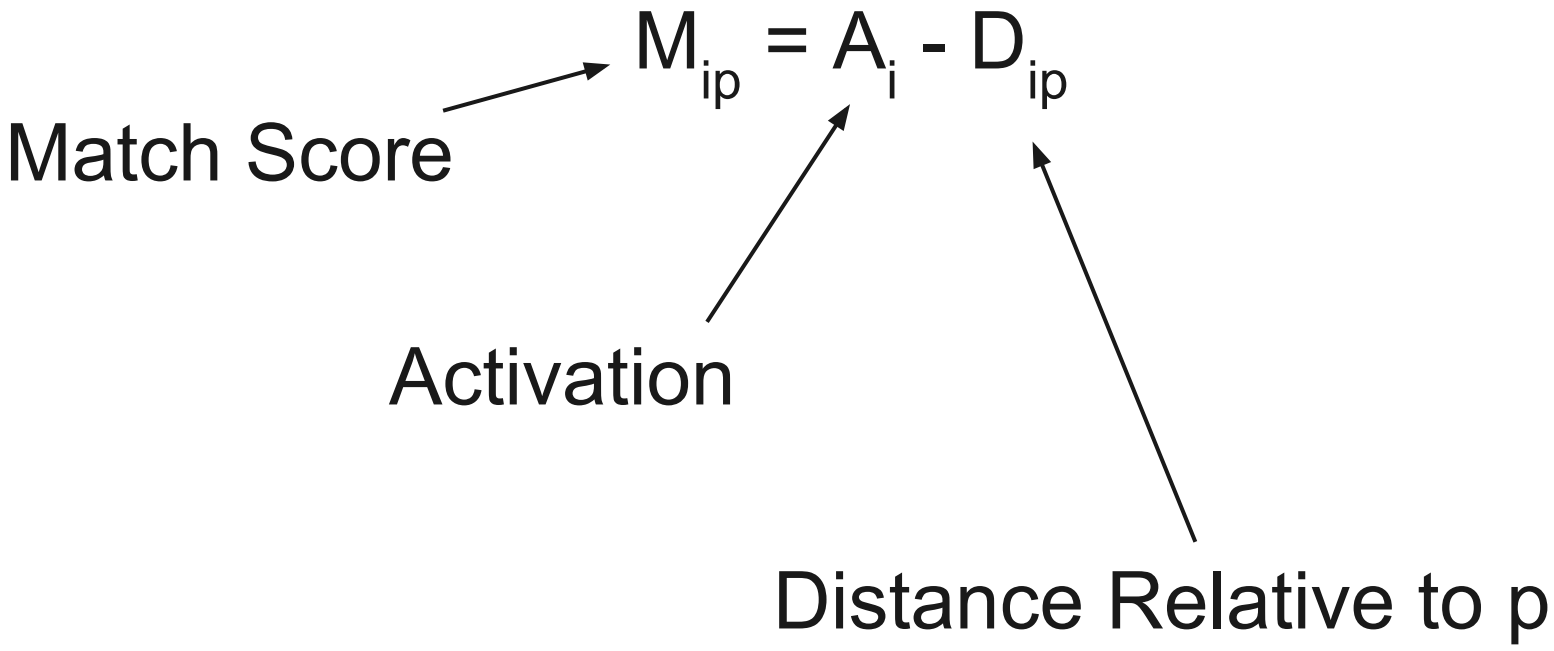
Probability and Latency

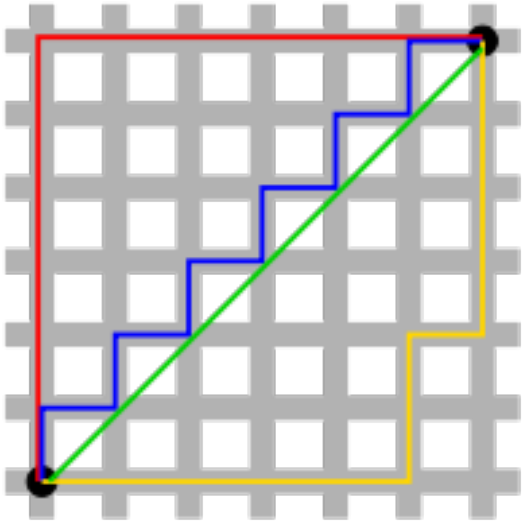
Karl DeVries

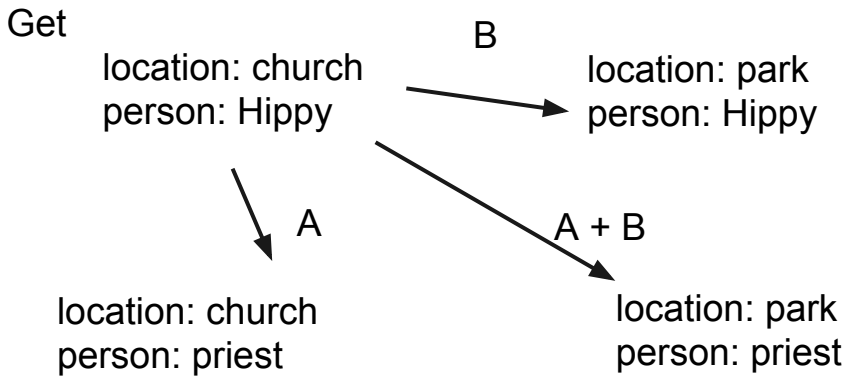
Partial Matching



Partial Matching

D_{ip} is city block distance metric





Partial Matching

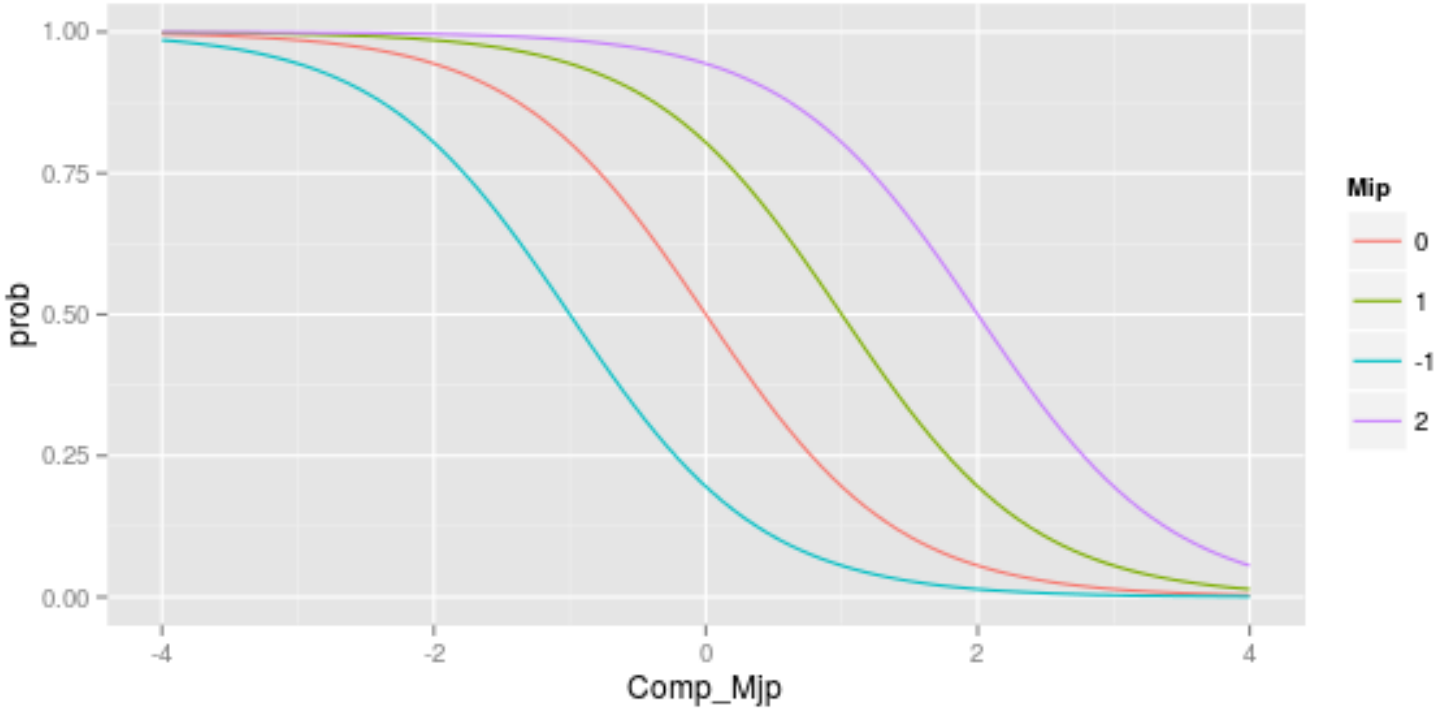
Probability of picking i given production p =

$$e^{Mip/t} \,/\, \text{Sum}_j\, e^{Mjp\,/\,t}$$

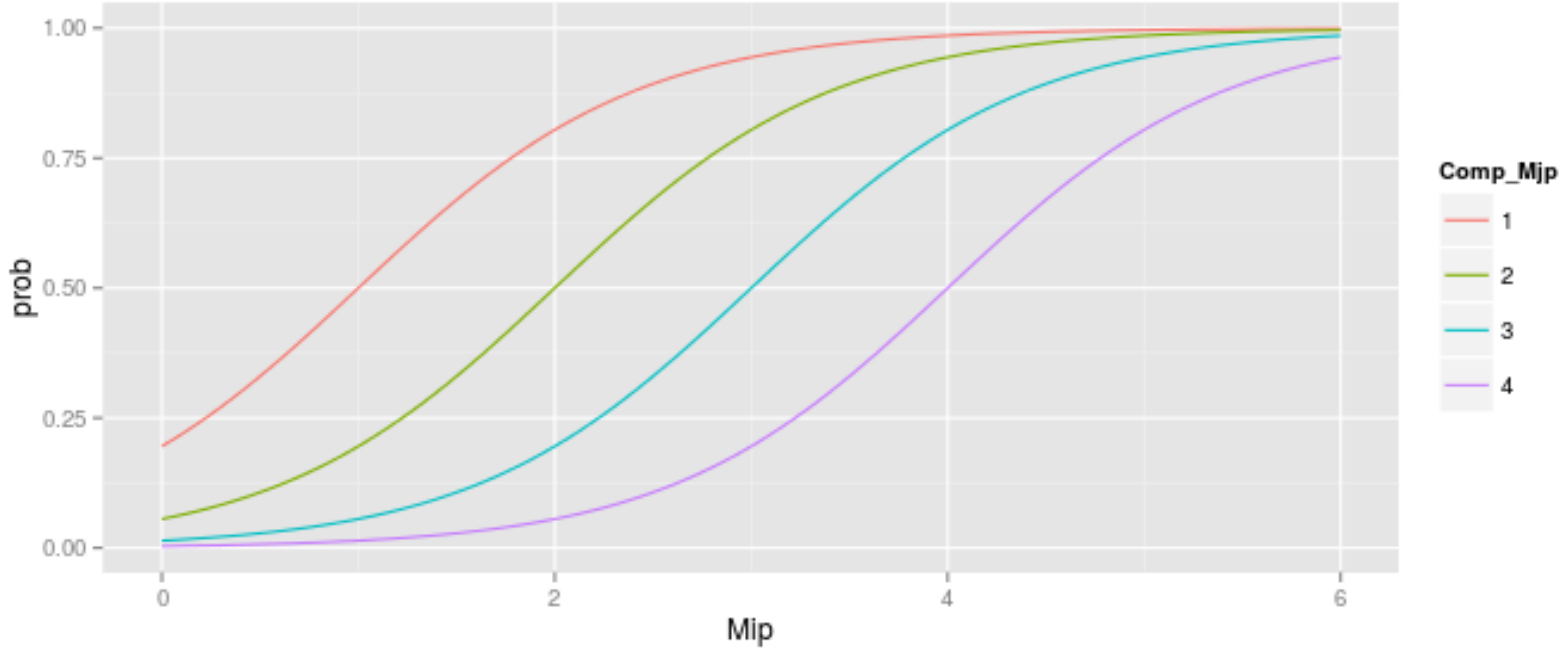
Match score for i

Match score for other chunks

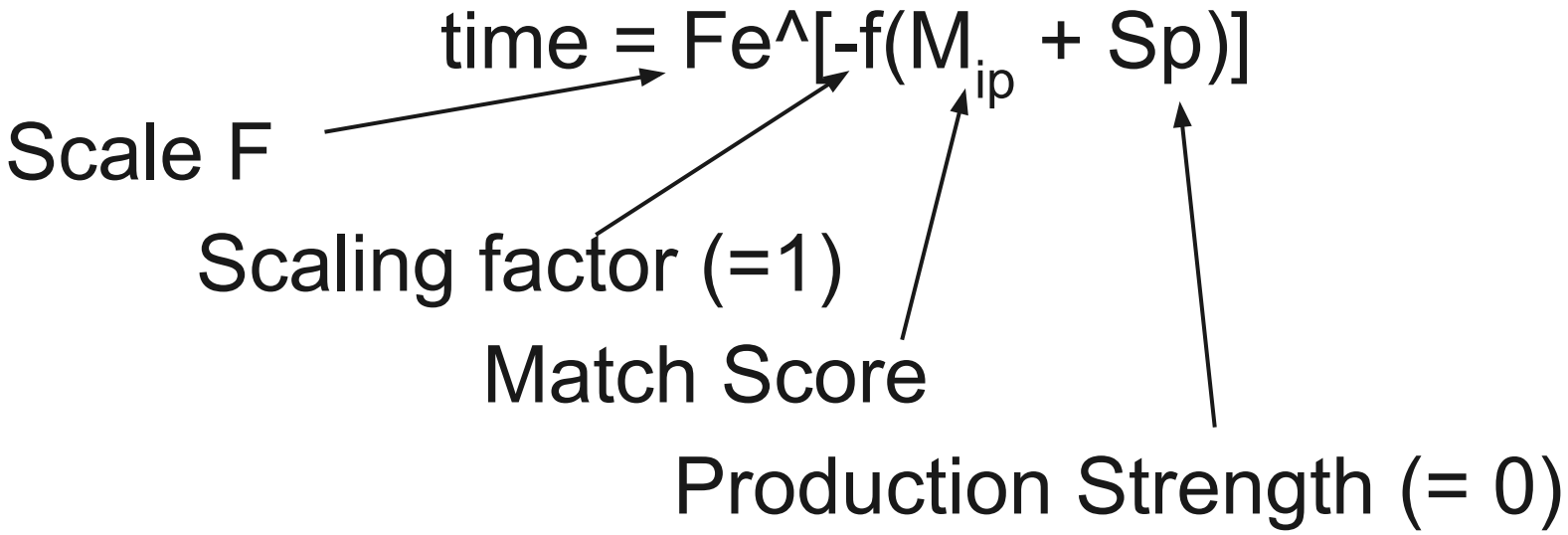
Partial Matching



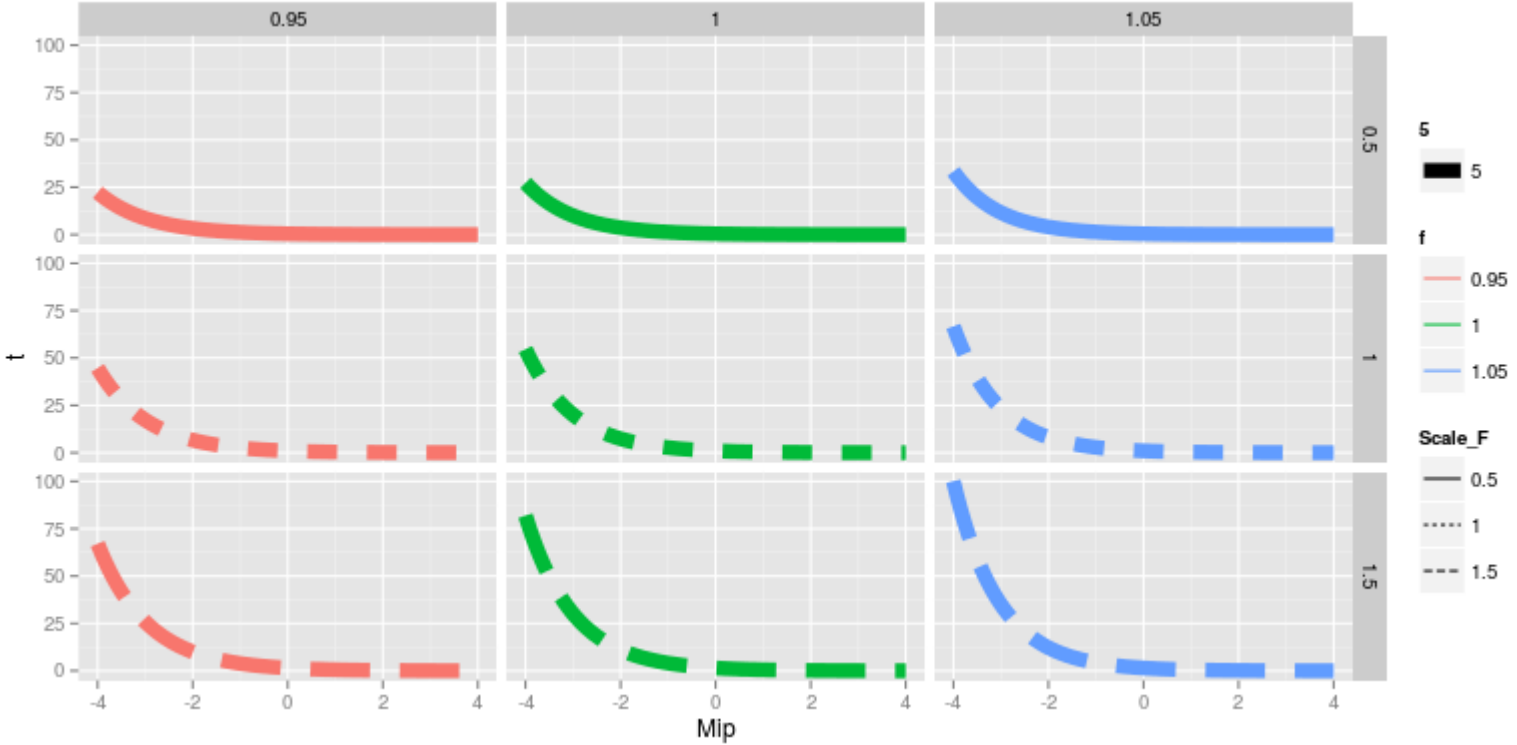
Partial Matching



Latency


time = Fe^[-f(M_ip + Sp)]
Scale F
Scaling factor (=1)
Match Score
Production Strength (= 0)

Latency



Latency & Probability