

Notice how Tom has an equal chance of being a “verb” or “adv”. This isn’t correct but is the best our model can come up with. Based off the training data our model used to learn from and calculate probabilities, its reasonable for new words to trump the system. We need a larger training data for more accurate decoding.

.2666\*0.25\*Constant == .1333\*0.5\*Constant

Therefore Tom could be tagged either verb or adv