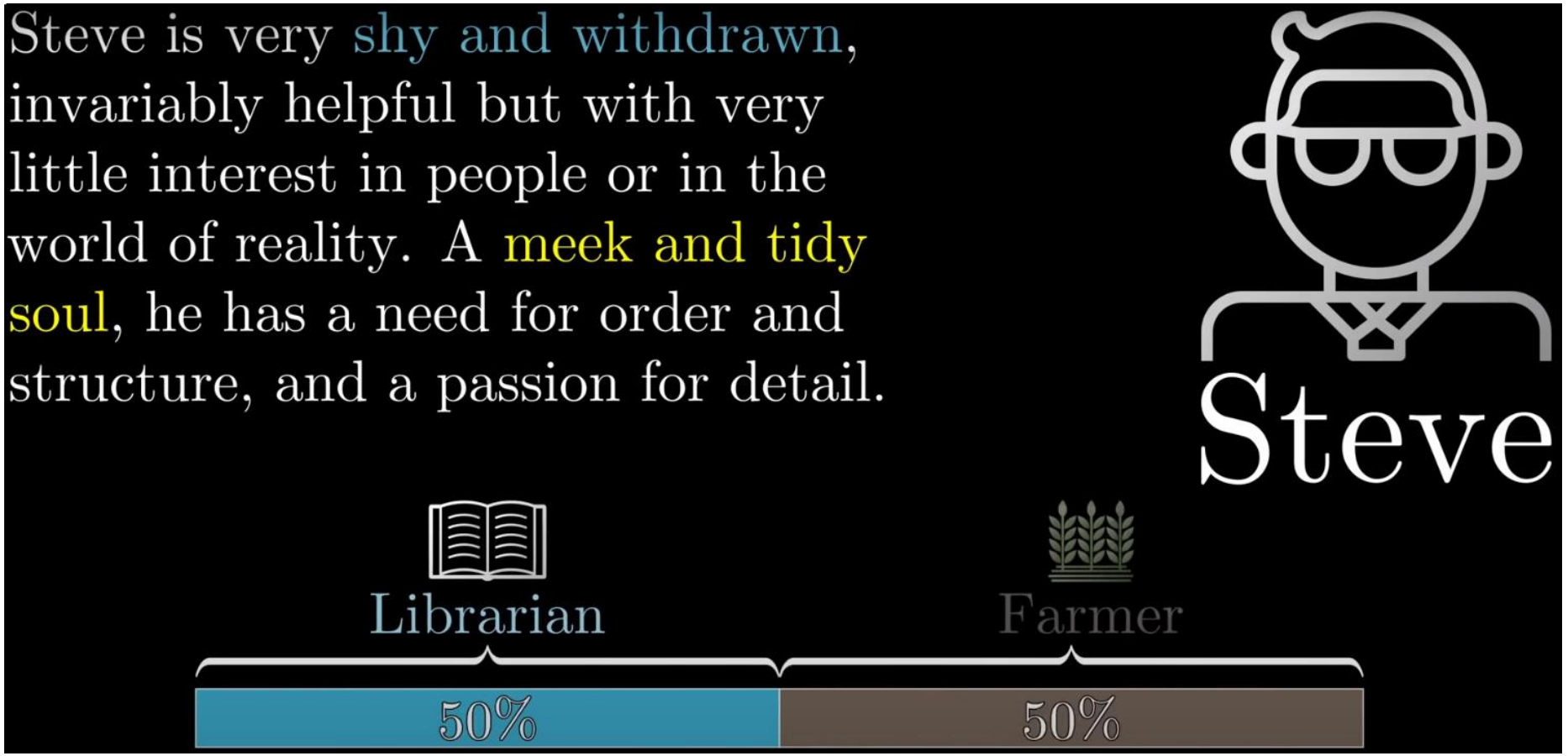
Naive Bayes

Bayes' theorem

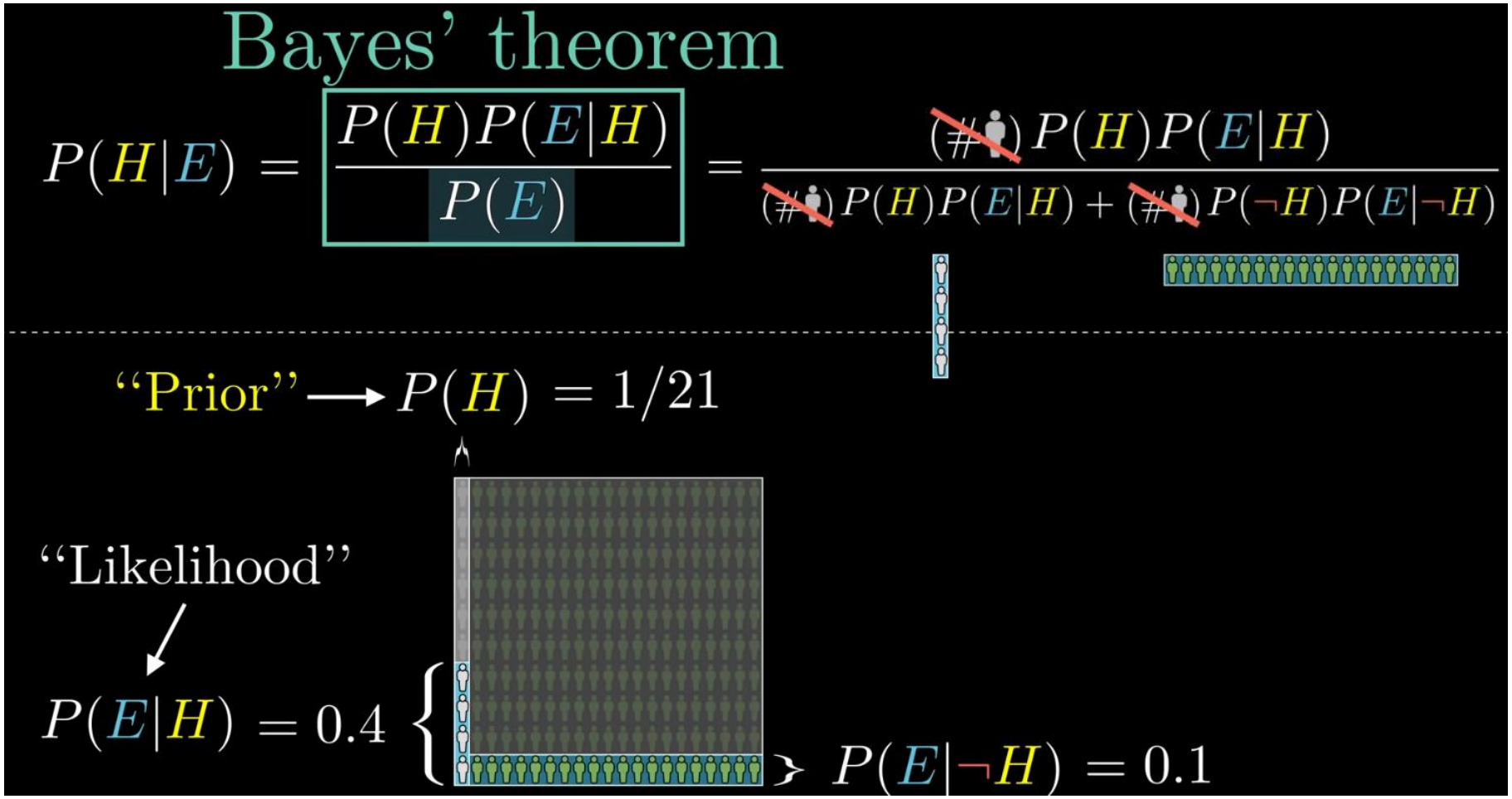


https://youtu.be/HZGCoVF3YvM

Bayes' theorem

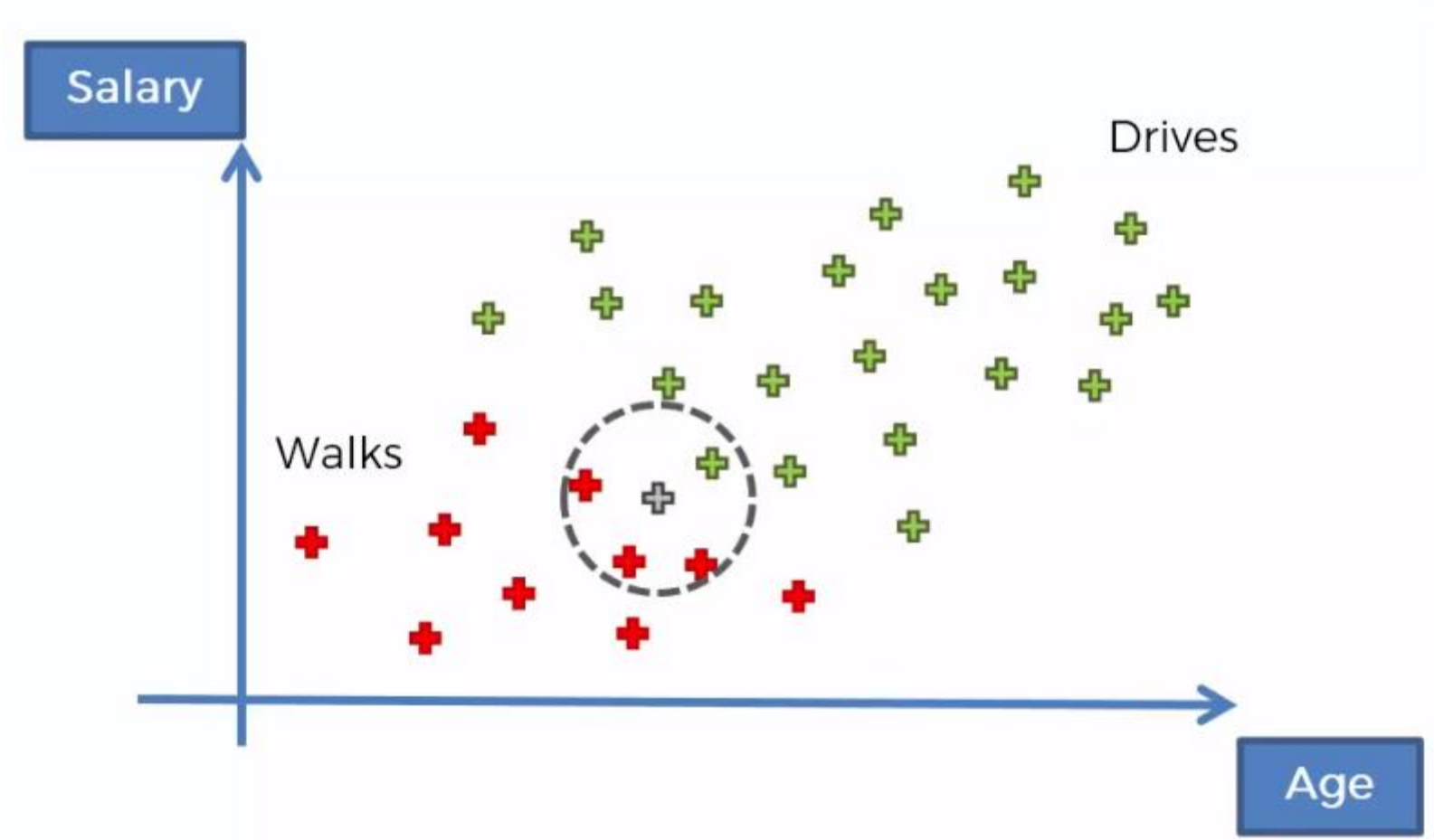
https://youtu.be/HZGCoVF3YvM

Bayes' theorem



https://youtu.be/HZGCoVF3YvM

Naive Bayes algorithm



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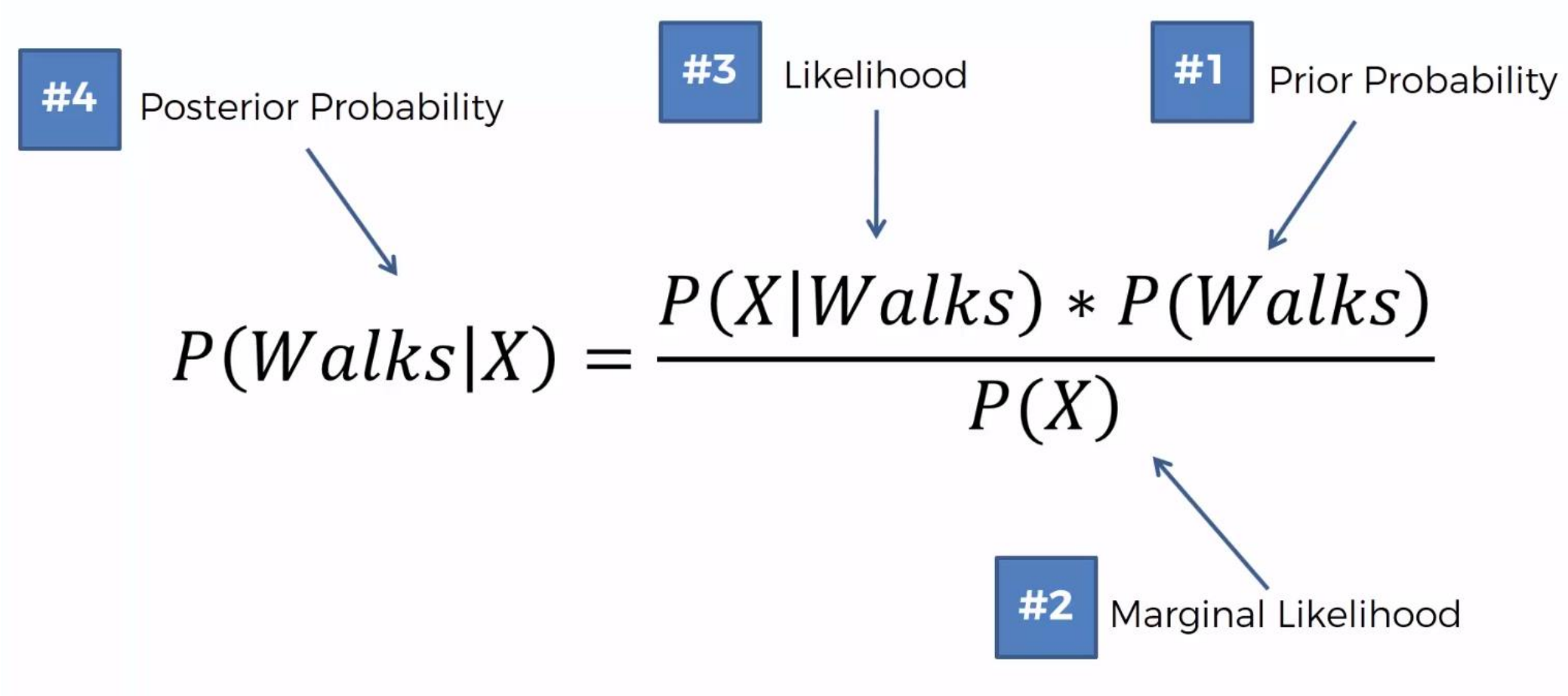
Naive Bayes algorithm



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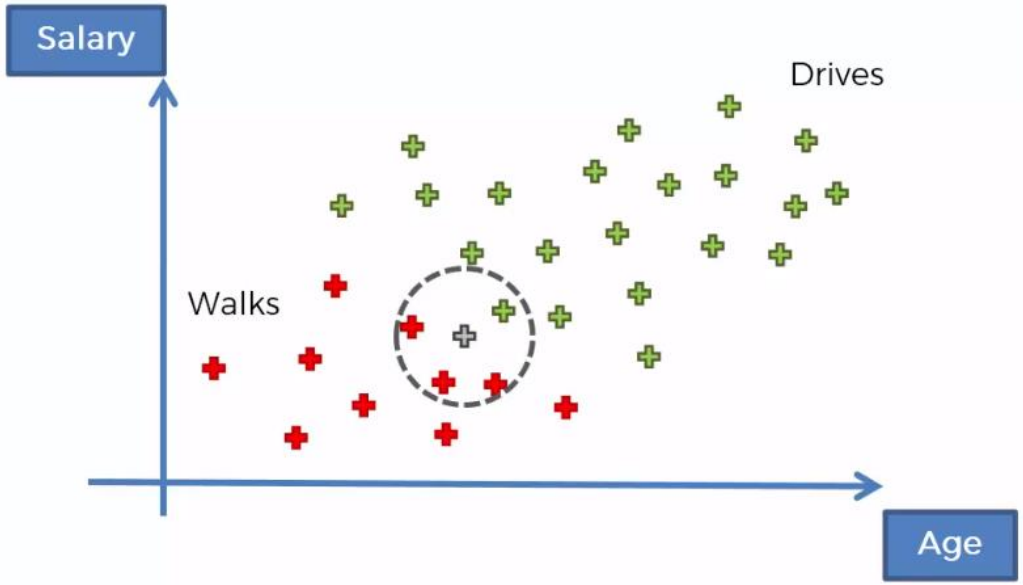
Naive Bayes algorithm



#4 Posterior Probability

#3 Likelihood

#1 Prior Probability

$$P(Walks|X) = \frac{P(X|Walks) * P(Walks)}{P(X)}$$

#2 Marginal Likelihood

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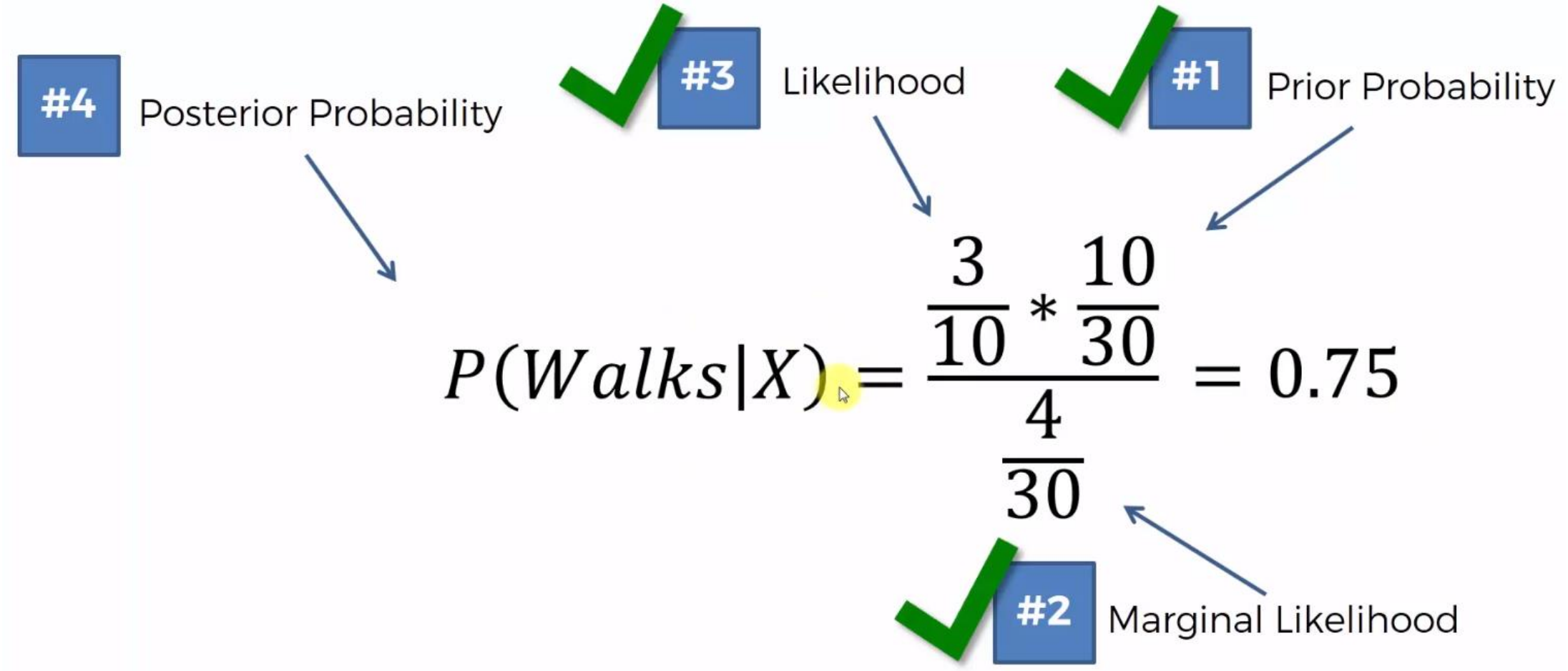
Naive Bayes algorithm



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$$P(Walks|X) \; v.s. \; P(Drives|X)$$

$$0.75 > 0.25$$

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Additional information

- Why “Naive”
- P(X)
- More than 2 classes