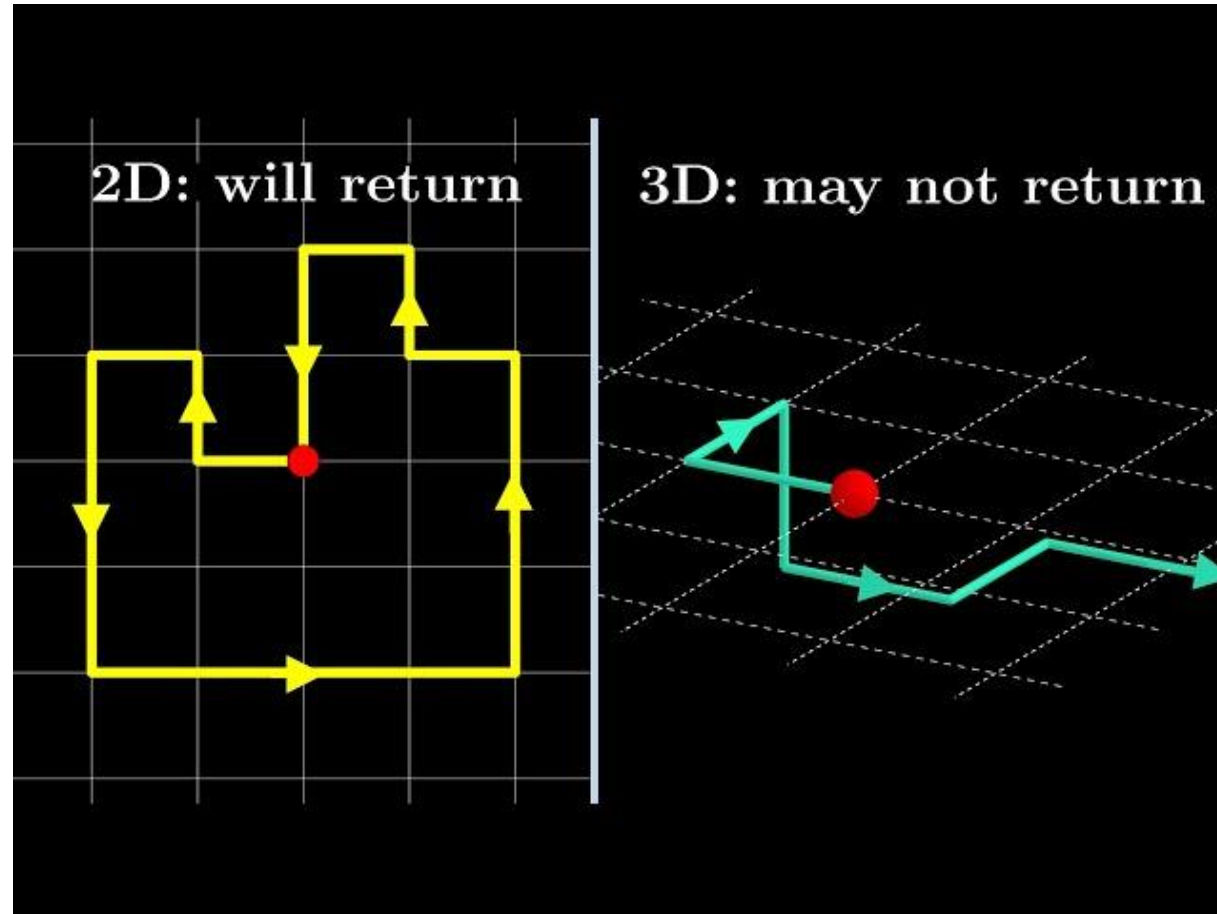




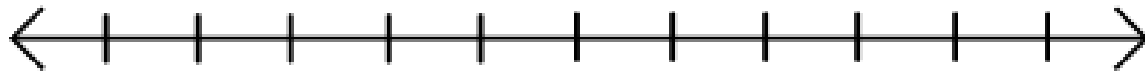
TITLE

A drunk man will find his way home, but a drunk bird may get lost forever.

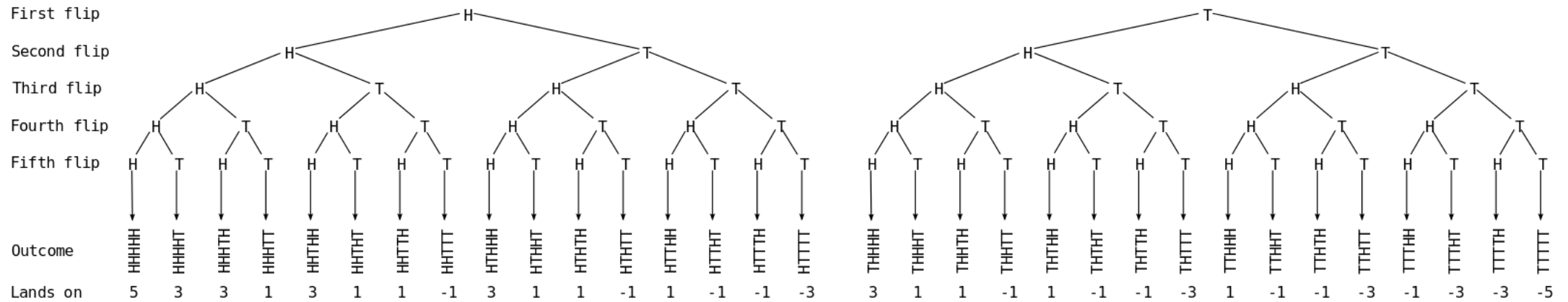
Man vs Bird



Drunk worm

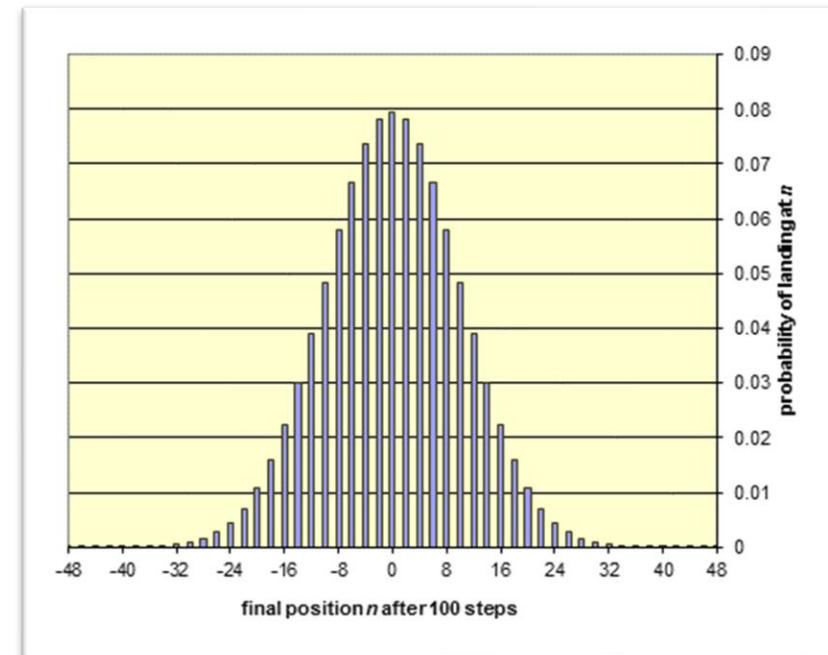


Drunk worm continued



$$Z_1, Z_2, \dots$$

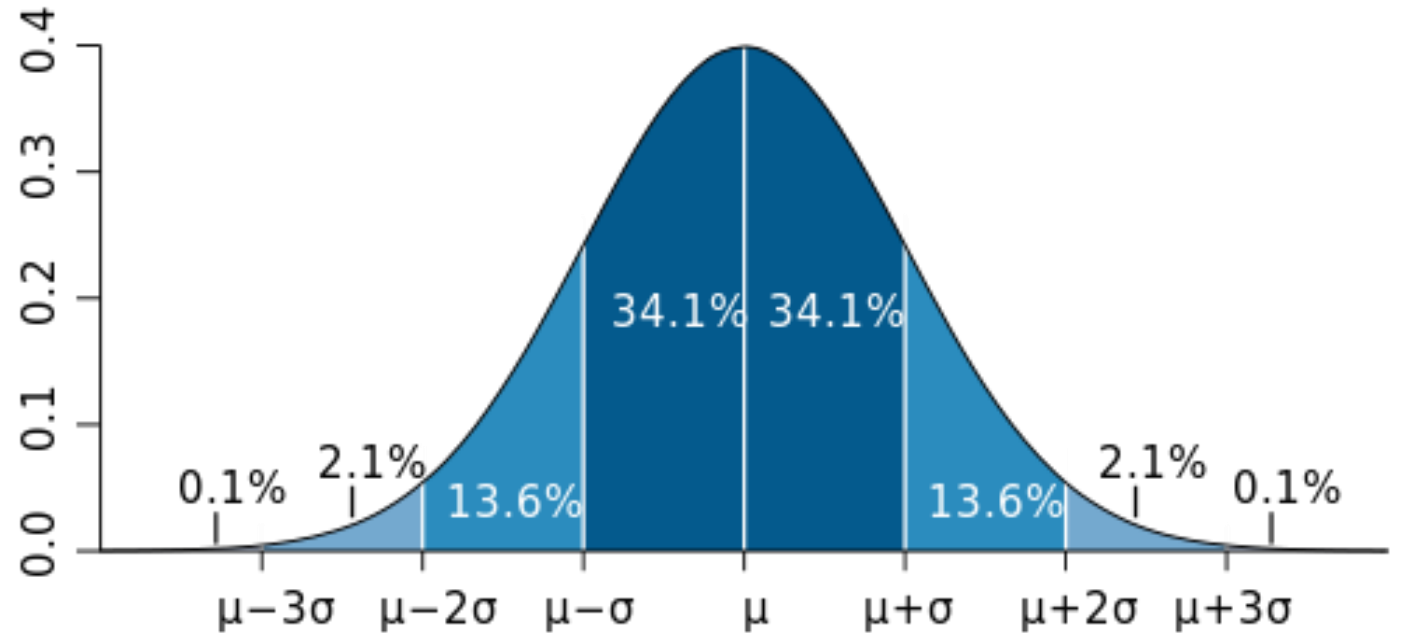
$$S_n = \sum_{j=1}^n Z_j.$$



more worm

$$S_n = \sum_{j=1}^n Z_j.$$

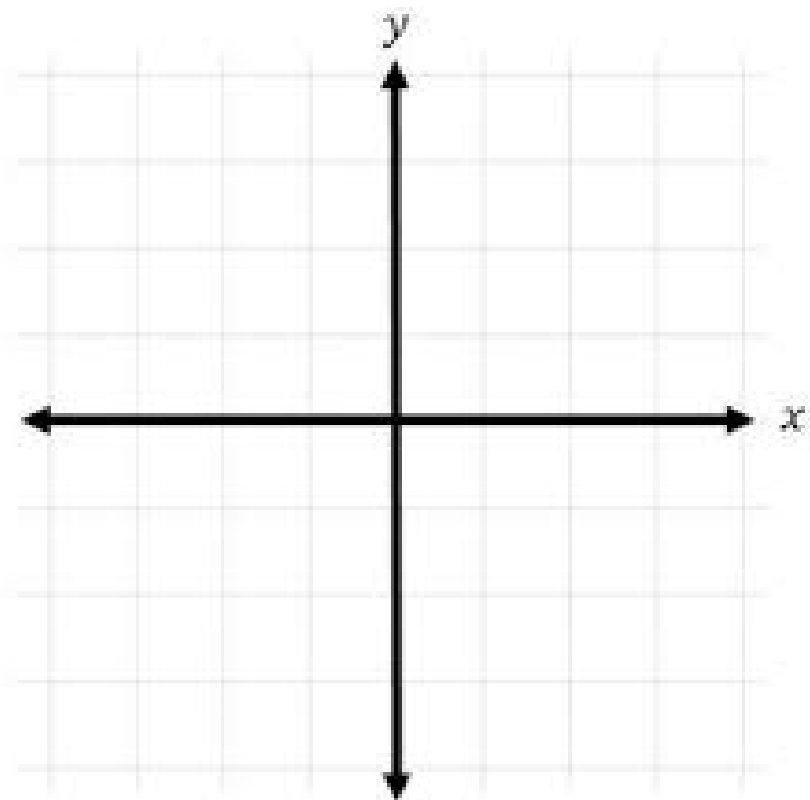
$$E(S_n) = \sum_{j=1}^n E(Z_j) = 0.$$



$$E(Z_n^2) = 1$$

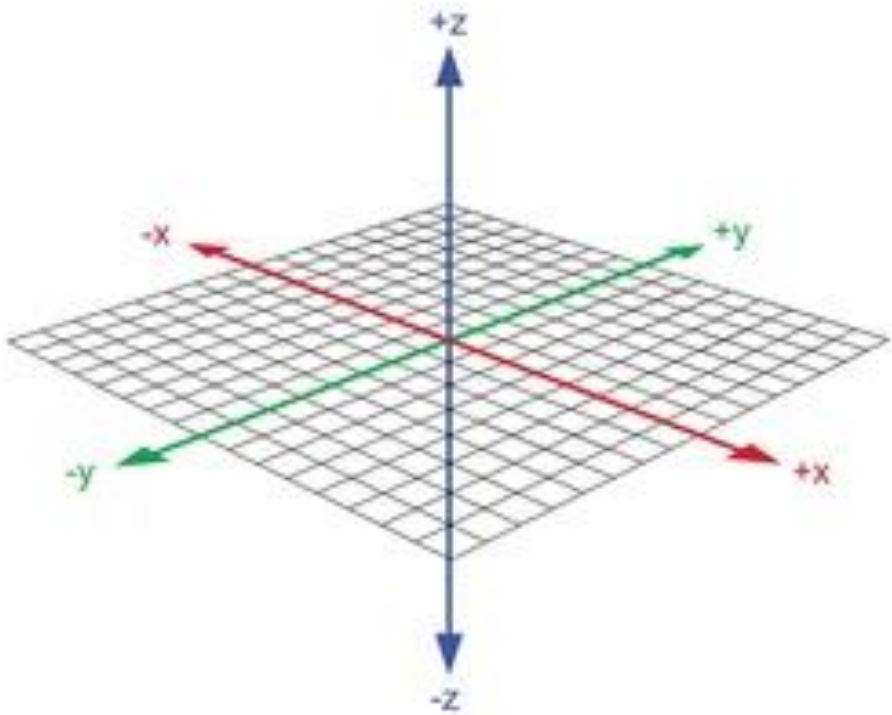
$$E(S_n^2) = \sum_{j=1}^n E(Z_j^2) = \sum_{j=1}^n 1 = n$$

Drunk man



$$\sum_1^n \frac{1}{\sqrt{n}} \cdot \frac{1}{\sqrt{n}}$$

Drunk bird



$$\sum_1^n \frac{1}{\sqrt{n}} \cdot \frac{1}{\sqrt{n}} \cdot \frac{1}{\sqrt{n}}$$

Unprobable VS. Infinitely Improbable