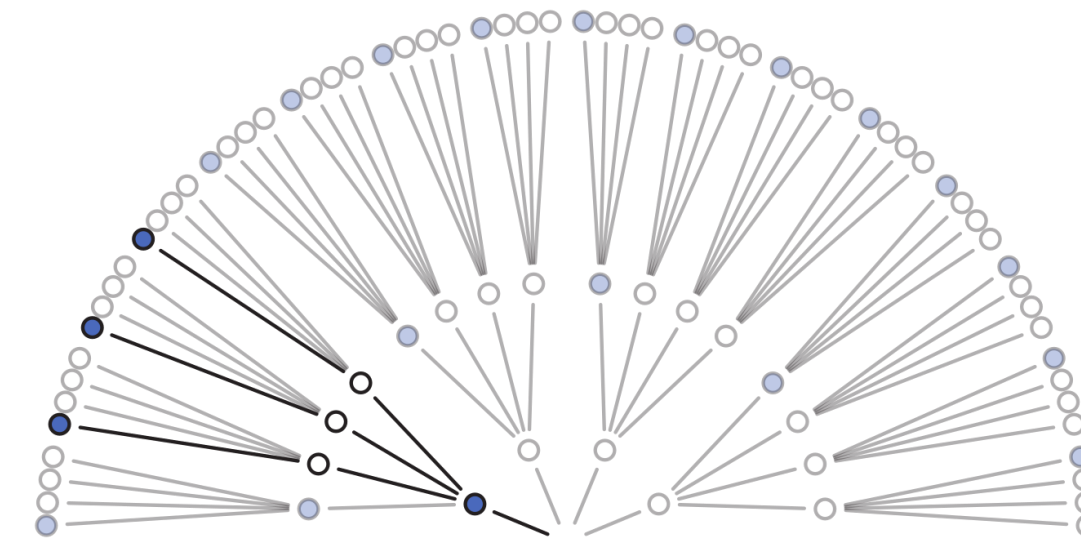


Likelihood is just a scaled measure of these counts

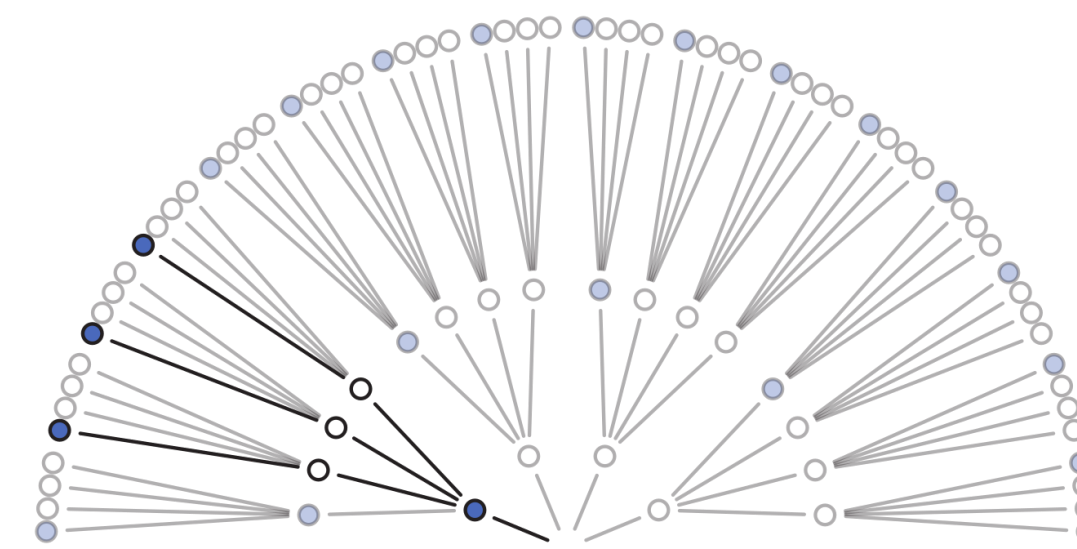
Conjecture	Ways to produce ●○●
[○○○○]	$0 \times 4 \times 0 = 0$
[●○○○]	$1 \times 3 \times 1 = 3$
[●●○○]	$2 \times 2 \times 2 = 8$
[●●●○]	$3 \times 1 \times 3 = 9$
[●●●●]	$4 \times 0 \times 4 = 0$



```
> 3 / (4^3)
[1] 0.046875
> dbinom(2, 3, 0.25) / 3
[1] 0.046875
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