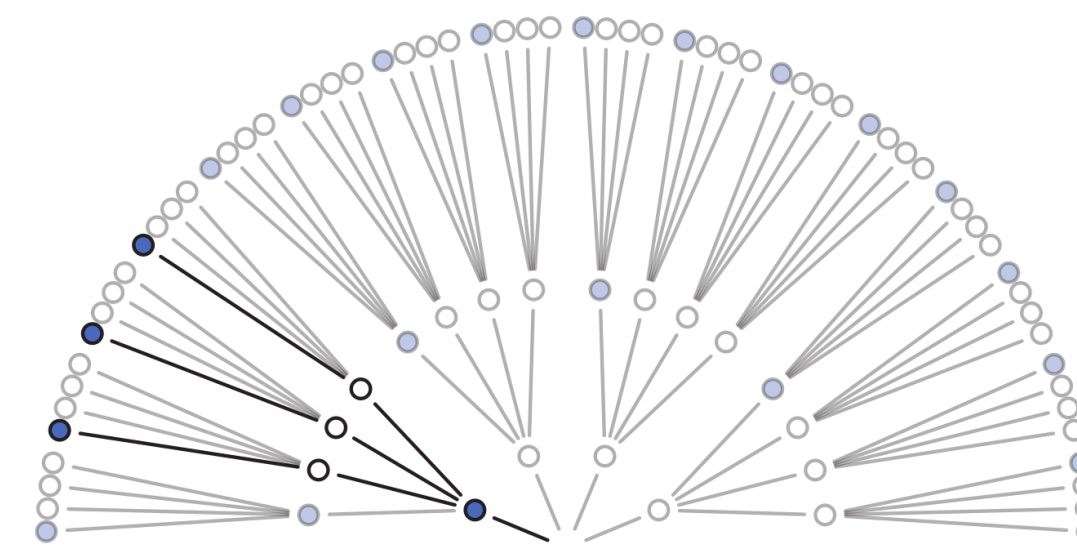
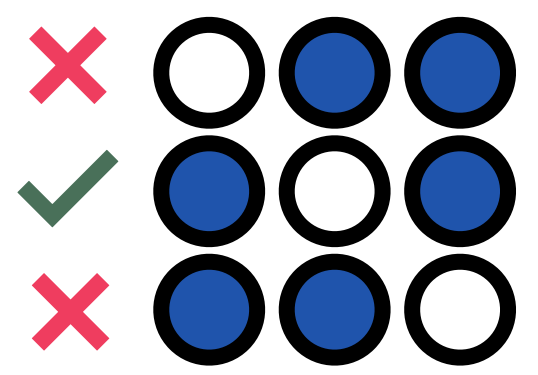


Likelihood is just a scaled measure of these counts

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
```



Likelihood is just a scaled measure of these counts

We use parameters to index the conjectures

Possible composition	p	Ways to produce data	Plausibility
[○○○○]	0	0	0
[●○○○]	0.25	3	0.15
[●●○○]	0.5	8	0.40
[●●●○]	0.75	9	0.45
[●●●●]	1	0	0

And scale the plausibilities so we don't
work with huge numbers of counts