

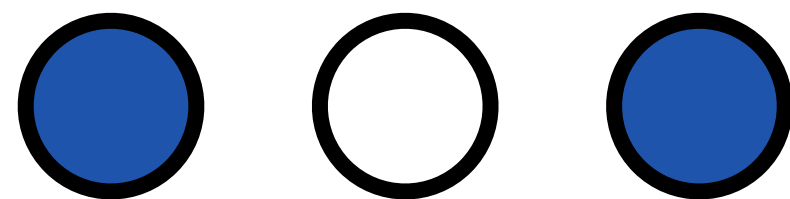
Likelihood as counting

- An evil statistician created an urn that contain 4 white or blue balls

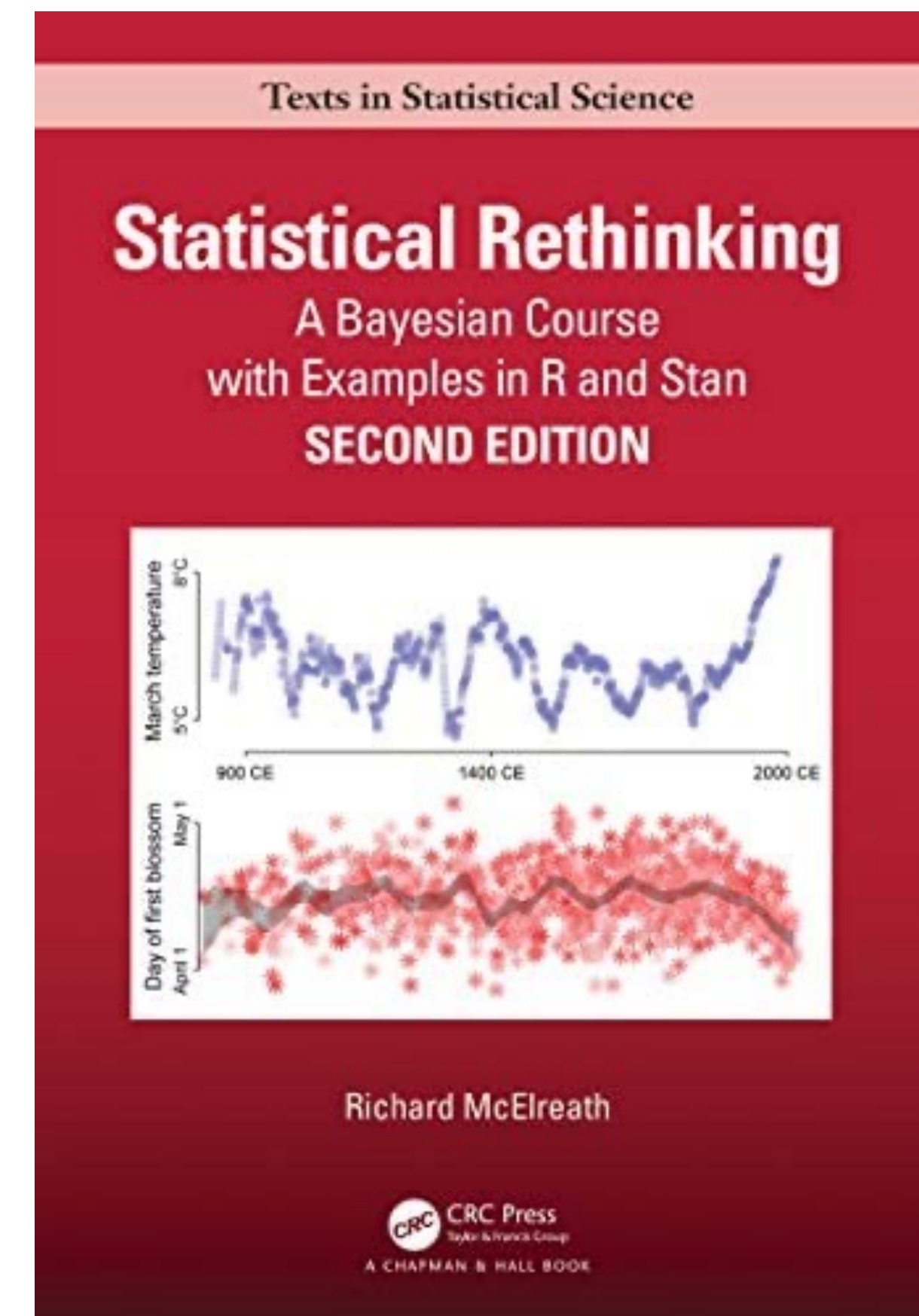
Five possible configurations (worlds)

(1) [○○○○], (2) [●○○○], (3) [●●○○], (4) [●●●○], (5) [●●●●]

- We observe 3 observations with replacement:



Example from:



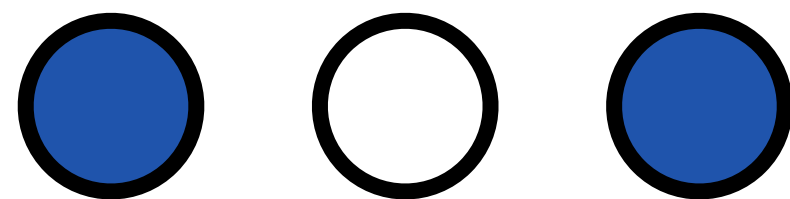
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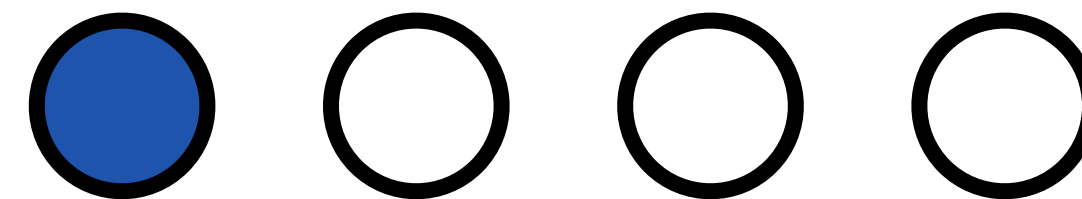
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(1) [○○○○], (2) [●○○○], (3) [●●○○], (4) [●●●○], (5) [●●●●]

- We observe 3 observations with replacement:



Assume the urn has the composition:



These are the 4 possible outcome of a draw:

