• More generally, we can have

$$\mathbb{P}(X = 1 \land Y = 1) = \mathbb{P}(X = 0 \land Y = 0) = \alpha,$$
$$\mathbb{P}(X = 1 \land Y = 0) = \mathbb{P}(X = 0 \land Y = 1) = \frac{1}{2} - \alpha.$$

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- For example: $\alpha = 1/2$:
 - Let X be a random coin flip;
 - Set Y = X.
- For example, $\alpha = 0$:
 - Let X be a random coin flip;
 - Set Y = 1 X.