

HAŽEME 2x SPRÁVEDLIVOU ĚESTISTĚNNOU
KOSTKOU. První hokema hodnota je x a
druhá y .

$$A = x \text{ a } y \text{ jsou soudělná (NSD}(x, y) > 1)$$

$$B = x + y \text{ je dělitelné } 3$$

$$\Omega = \{(x, y) : x, y \in [1, 6]\}$$

$$|\Omega| = 36$$

$$P(A \cap B) = P(A) \cdot P(B)$$

$$A = \{(2, 2), (2, 4), (4, 2), (2, 6), (6, 2), (3, 3), (3, 6), (6, 3), (4, 4), (4, 6), (6, 4), (5, 5), (6, 6)\}$$

$$|A| = 13$$

$$B = \{(1, 2), (2, 1), (1, 5), (5, 1), (2, 4), (4, 2), (3, 3), (3, 6), (6, 3), (4, 5), (5, 4), (6, 6)\}$$

$$|B| = 12$$

$$|A \cap B| = 6 \quad P(A \cap B) = \frac{1}{6} \neq \frac{1}{3} \cdot \frac{13}{36} = P(A) \cdot P(B)$$

$$A, B - \text{KÁVILÉ}$$

$$P(A) = \frac{|A|}{|\Omega|} = \frac{13}{36}$$

$$P(B) = \frac{|B|}{|\Omega|} = \frac{12}{36} = \frac{1}{3}$$

$$P(A \cap B) = \frac{|A \cap B|}{|\Omega|} = \frac{6}{36} = \frac{1}{6}$$

HAŽEME 2x SPRÁVEDLIVOU ŠESTISTĚNNOU KOSTKOU. První hodnota hodnota je x a druhá y .

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$$|B| = 12$$

$$|A \cap B| = 6$$

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A, B - NEzávislé