

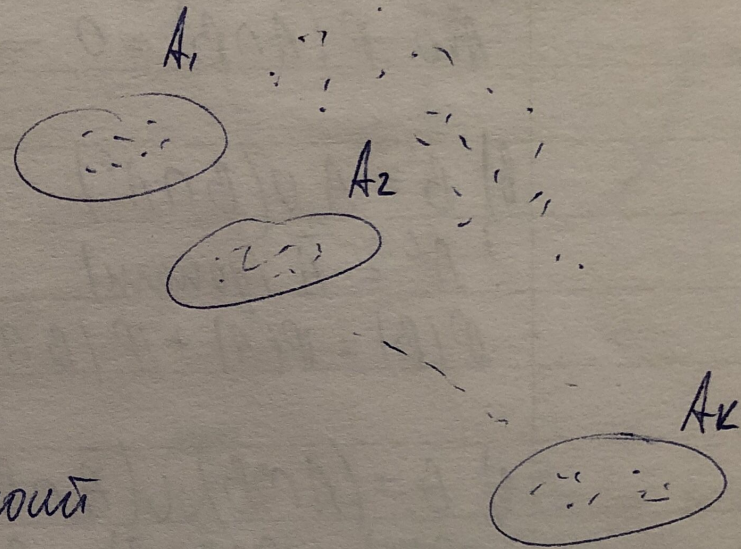
$$P(\Omega) = \sum_{w_i \in \Omega} p_i = \sum_{i=1}^N p_i = 1$$

$$P(\bar{A}) = \sum_{w_i \notin A} p_i = 1 - \sum_{w_i \in A} p_i = 1 - P(A)$$

Пусть  $A_1, \dots, A_k, A_i \subseteq \Omega$

$$A_i \cap A_j = \emptyset \quad i \neq j$$

$$P\left(\bigcup_{i=1}^k A_i\right) \stackrel{\text{gef}}{=} \sum_{\substack{w_i \in \bigcup_{j=1}^k A_j \\ j=1}} p_i = \sum_{l=1}^k \sum_{w_i \in A_l} p_i \stackrel{\text{gef}}{=} \sum_{j=1}^k P(A_j)$$



$$\oplus \Omega = \{w_1, \dots, w_N\}$$

$$P(\{w_i\}) = p_i = \frac{1}{N}$$

$1 \leq i \leq N$  равномерная вероятности

$$P(\{w_i\}) = \frac{1}{13983816}$$