Read, pause, think, pause, write, pause, (perhaps erase), pause, read, pause, (perhaps go back), pause, write, ... — *Alan Turing* (1936).

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$$\mathbf{P}(\mathbf{A}_k \mid \mathbf{B}) = \frac{\mathbf{P}(\mathbf{B} \mid \mathbf{A}_k) \mathbf{P}(\mathbf{A}_k)}{\sum_{j} \mathbf{P}(\mathbf{B} \mid \mathbf{A}_j) \mathbf{P}(\mathbf{A}_j)}$$

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$$\mathbf{P}(A_k \mid B) = \frac{\mathbf{P}(A_k \cap B)}{\mathbf{P}(B)} = \frac{\mathbf{P}(B \mid A_k) \mathbf{P}(A_k)}{\sum_{j} \mathbf{P}(B \mid A_j) \mathbf{P}(A_j)}$$