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$|0\rangle$ and $|1\rangle$ two reference qubits, corresponding to two orthogonal states in a quantum system. The qubits $|0\rangle$ ($\hat{I}_x = 1, \hat{I}_z = 0$) and $|1\rangle$ ($\hat{I}_x = 0, \hat{I}_z = 1$) may be thought of as the quantum equivalent of the bits 0 and 1, respectively. For other values of \hat{I}_x and \hat{I}_z , we say that the qubit contains a superposition of $|0\rangle$ and $|1\rangle$. For instance, the qubits $\frac{1}{\sqrt{2}}(|0\rangle + |1\rangle)$,

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