Quantum Computing
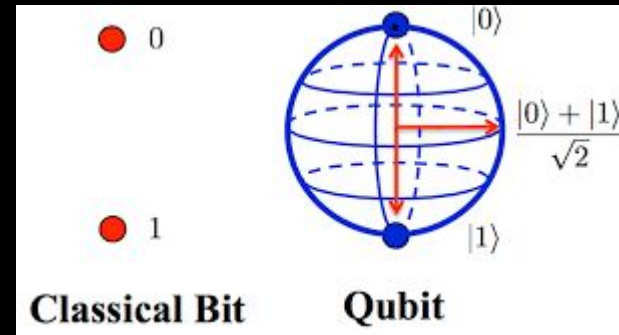
Cooling system of a quantum computer at D-Wave, temperatures need to be lowered to about 15 milliKelvin (-459.643º F)

Classical Bit   Qubit

While a normal bit can either be a 1 or a 0 a qubit could be both or anything in between allowing for a nearly limitless number of possibilities.

This allows the computer to do many calculations / trial and error simultaneously

This causes concerns for cyber security but greatly benefits science