



The Superpower of Superposition

By Teja Abhinayasri Chakka

In our world, you must choose
one path.



But Qubi is a qubit! It can be in a superposition – a mix of both paths at once.

But the moment we measure it,
it has to 'choose' a state!

One day, Qubi met another qubit named Bitly. They became the best of friends, linked by a special magic called entanglement.

Qubi

Bitly



Now, they were a team! If Qubi was on the apple path, Bitly was always on the banana path. They were opposites, forever connected.



This connection worked no matter how far apart they were. Qubi stayed to play in the valley, while Bitly zoomed to the top of the highest mountain.

Measurement

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When the "Measurement" eye
looked at Qubi in the valley,
Qubi instantly chose the
banana path this time.

And at that exact same moment, far away on the mountain, Bitly instantly chose the apple path, without anyone even looking! That's spooky action at a distance!



Qubi also loves to play with "Quantum Gates," which are like special doorways that can flip its path in a flash!

With superposition, entanglement, and quantum gates, Qubi can explore every path in a giant maze all at once to find the prize. It's not just magic, it's quantum power!