EXPLORING THE POTENTIAL OF

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160115733122

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Dr. K. Sagar


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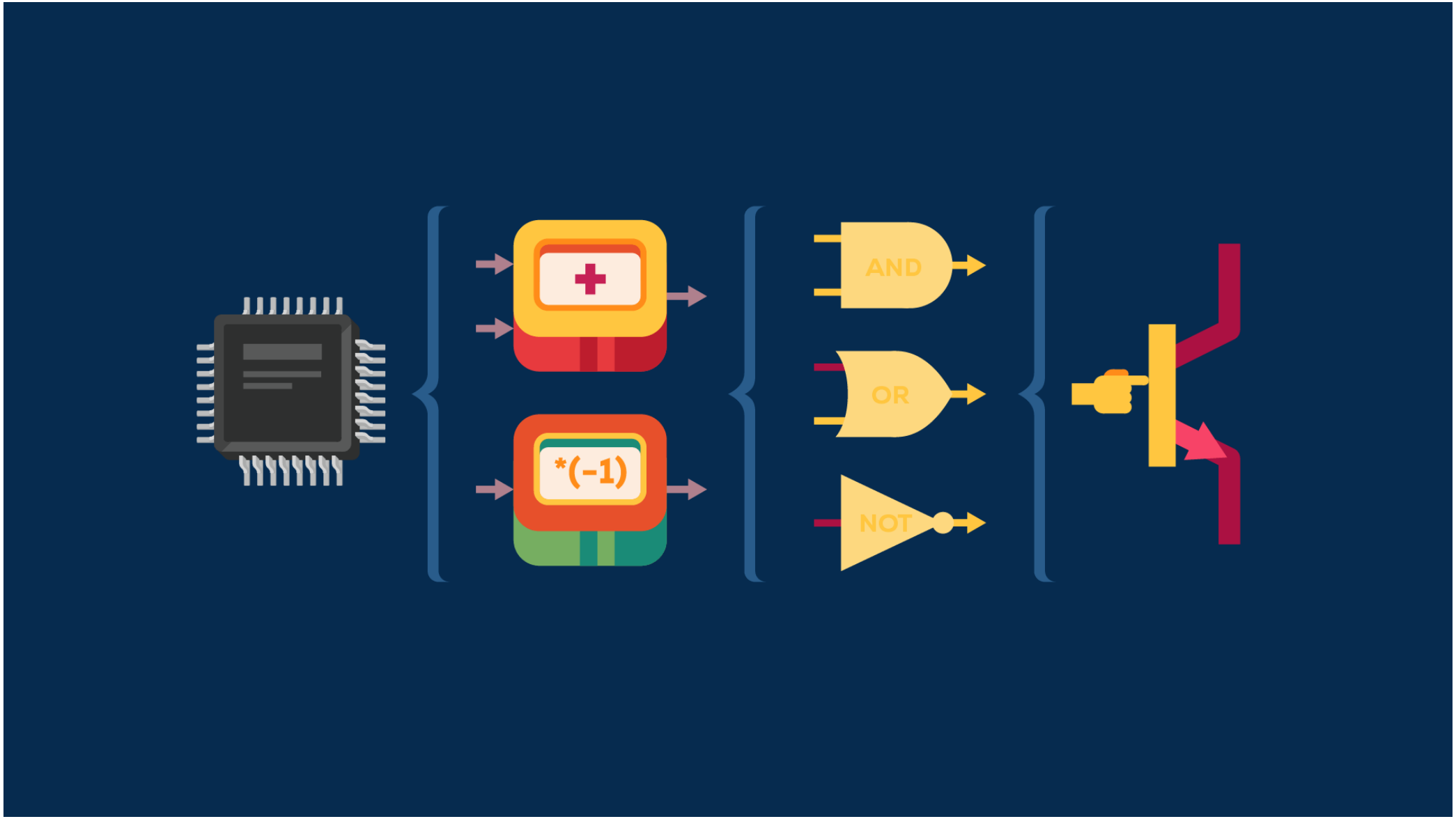
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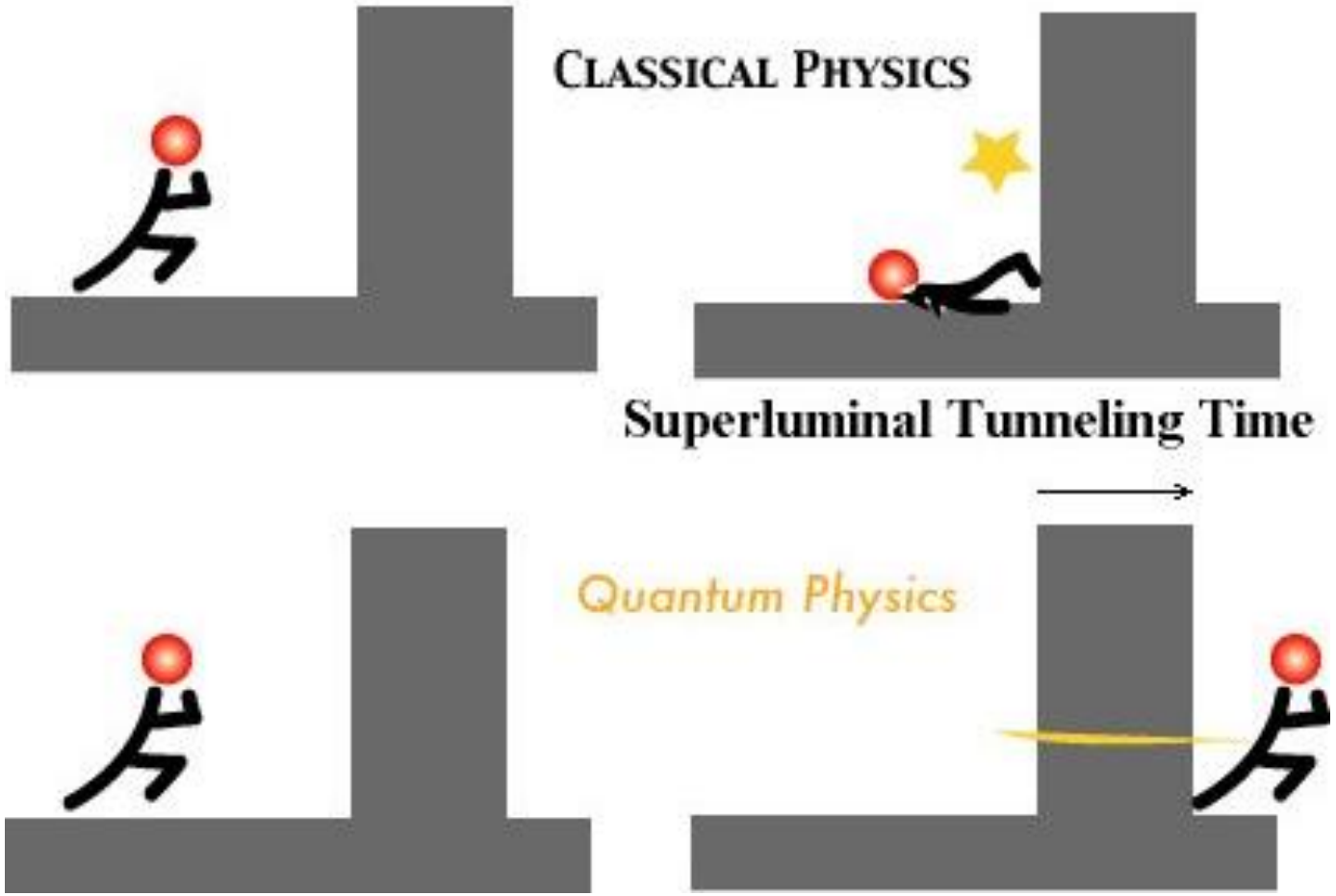
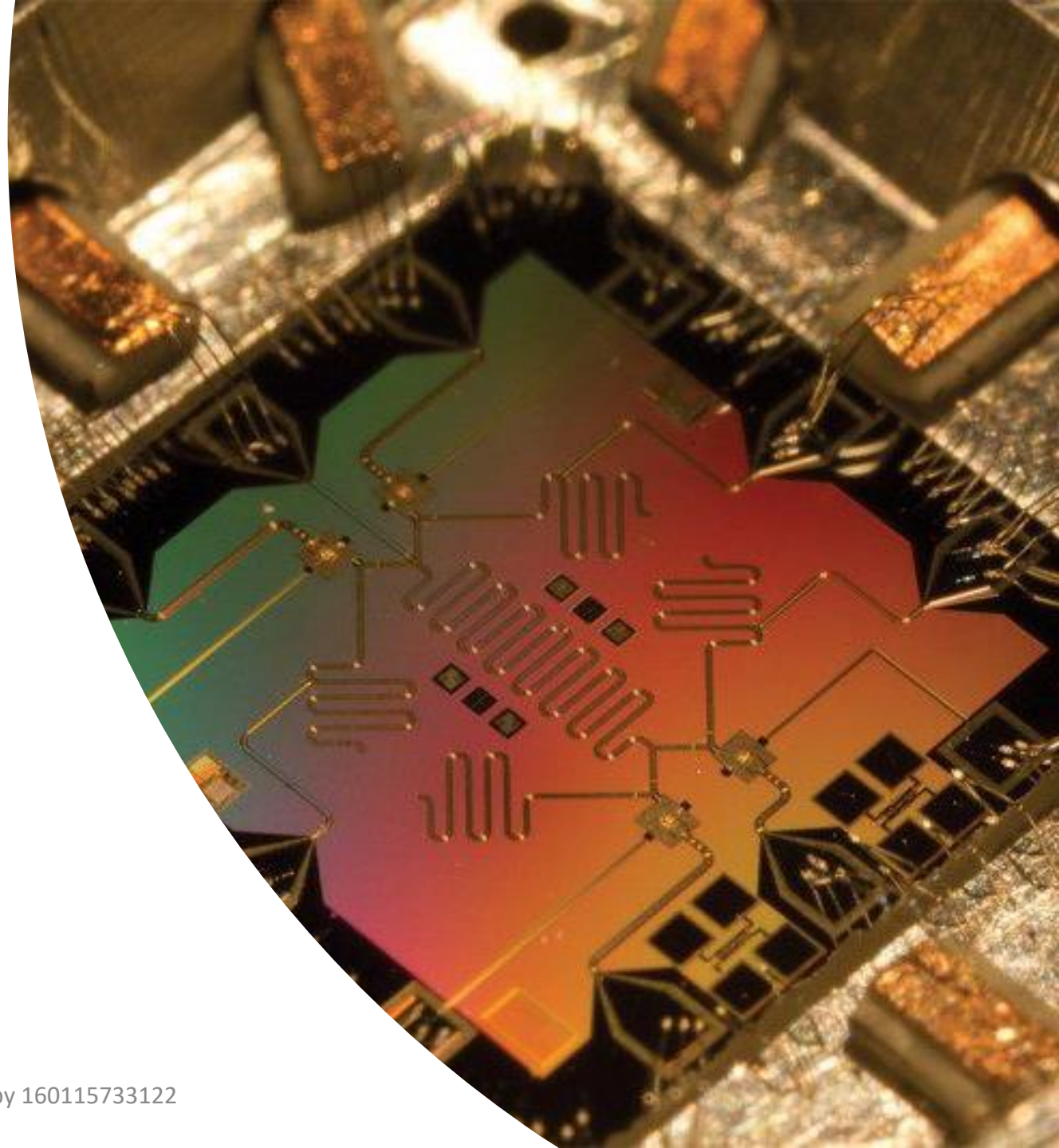
QUANTUM TUNNELING

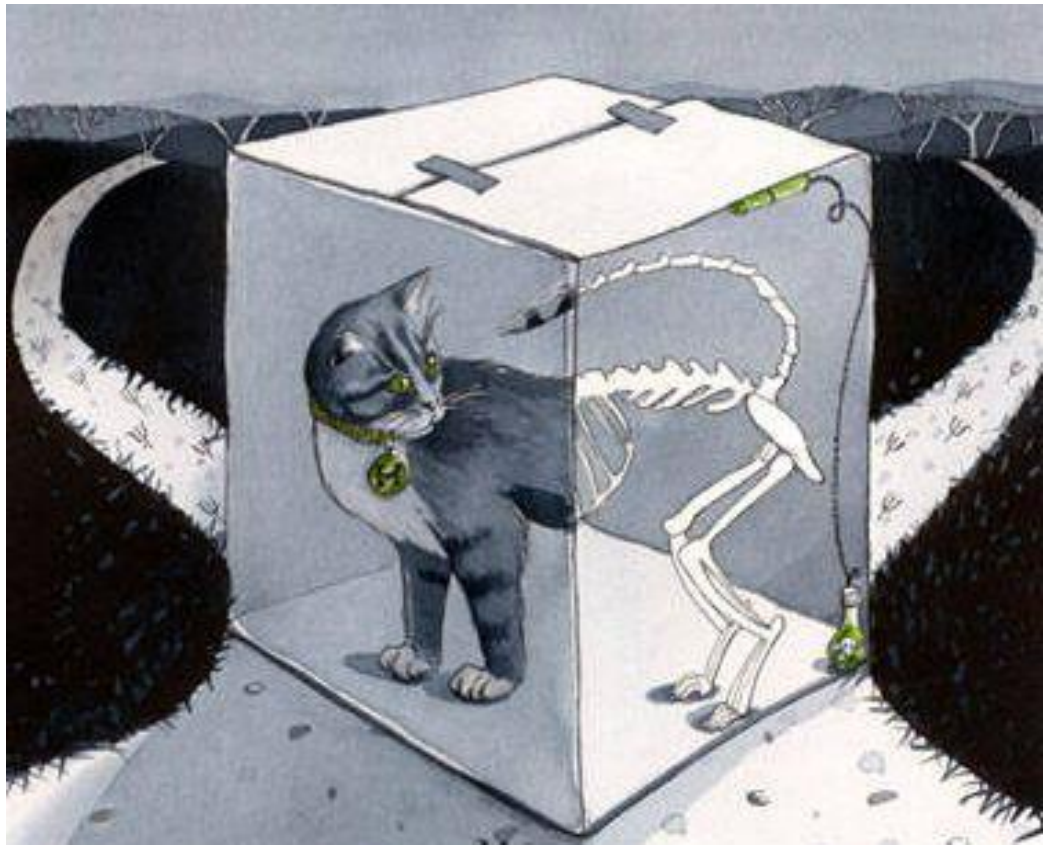


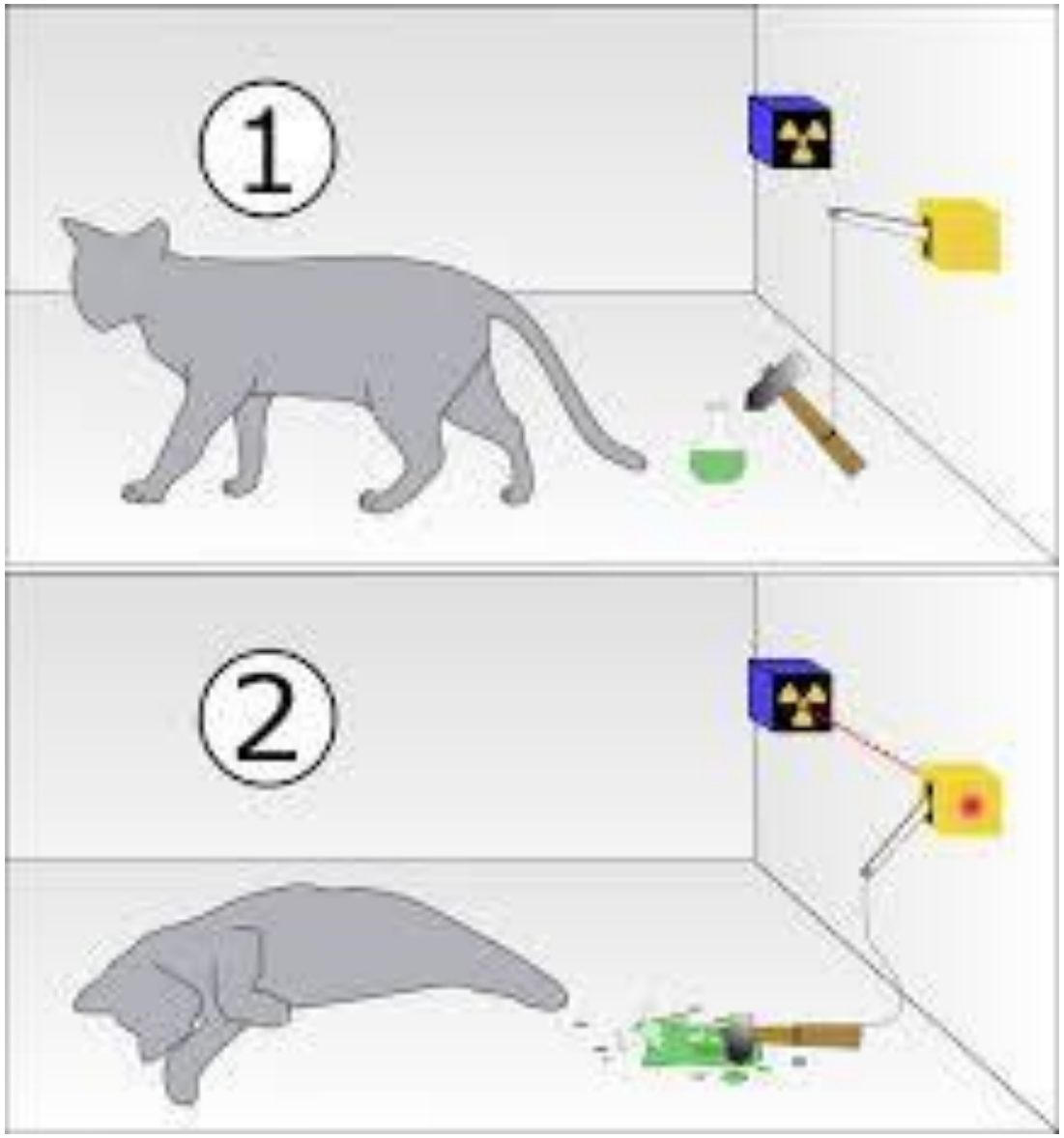
QUBITS

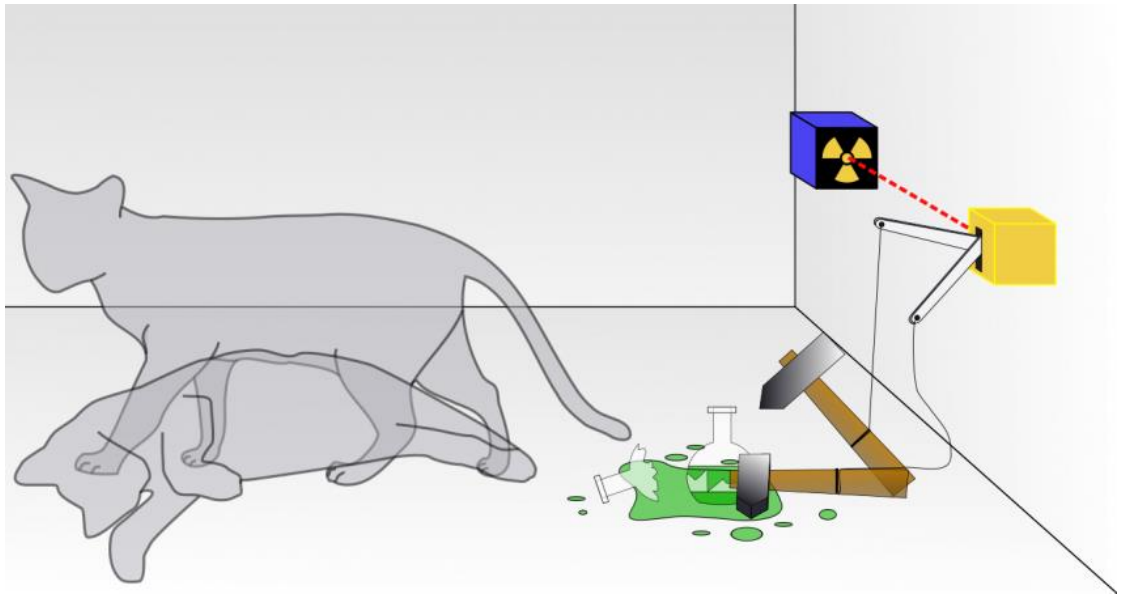
(quantum bits which can be made using a photon, an electron, or a nucleus)



QUANTUM SUPERPOSITION




1
2



0 and 1

0 and 1

0 and 1

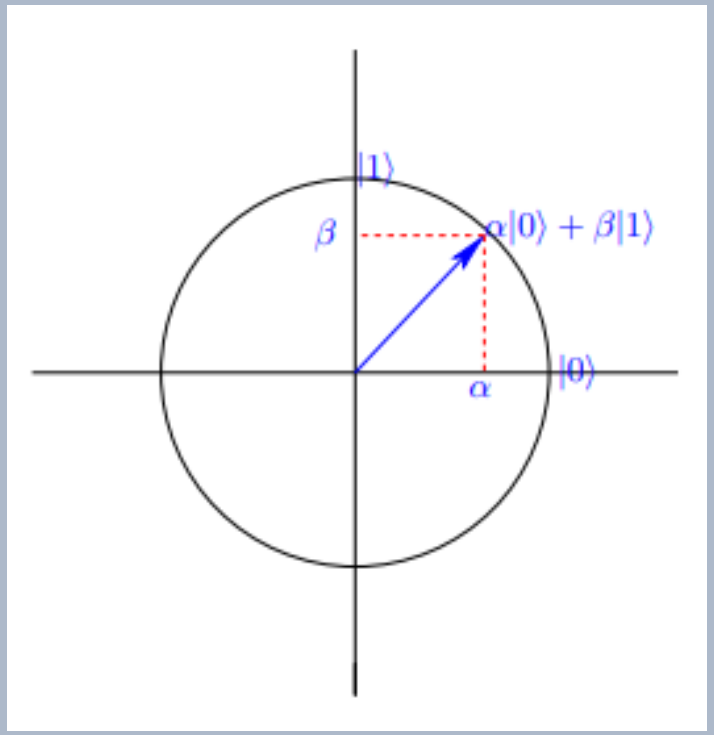
A	B	C
0	0	0
0	0	1
0	1	0
0	1	1
1	0	0
1	0	1
1	1	0
1	1	1

A	B	C	Score
0	0	0	-1
0	**0**	**1**	**1 <- one of the best solutions**
0	1	0	-1
0	1	1	-1
1	0	0	-1
1	0	1	-1
1	**1**	**0**	**1 <- the other best solution**
1	1	1	-1

So, if there are 100 people, we'll need to go through:
$2^{100} \sim= 10^{30}$ = one million million million million million configuration

A qubit or quantum bit is a quantum system whose state can be fully described by a superposition of two orthonormal eigenstates labeled $|0\rangle$ and $|1\rangle$.
The general state $|\psi\rangle \in \mathcal{H}$ of a qubit is given by

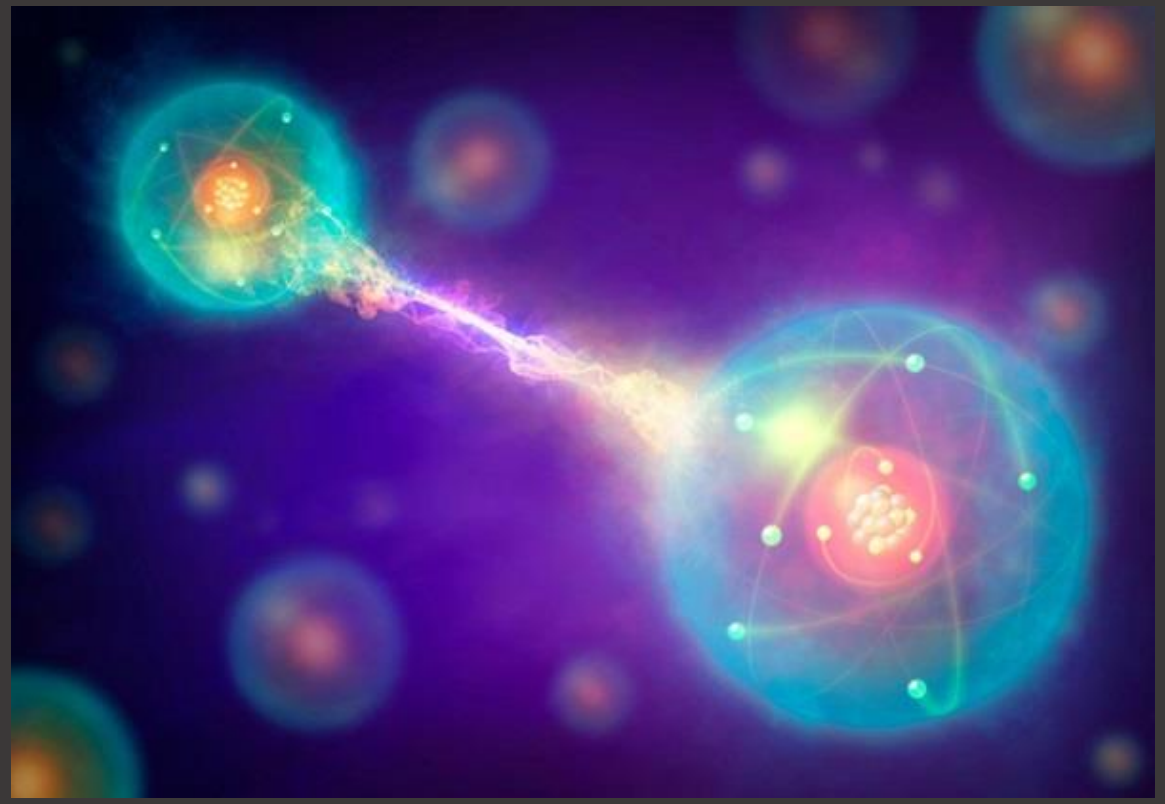
$$|\psi\rangle = \alpha|0\rangle + \beta|1\rangle \quad \text{with} \quad |\alpha|^2 + |\beta|^2 = 1$$



QUANTUM ENTANGLEMENT

spooky action at a distance

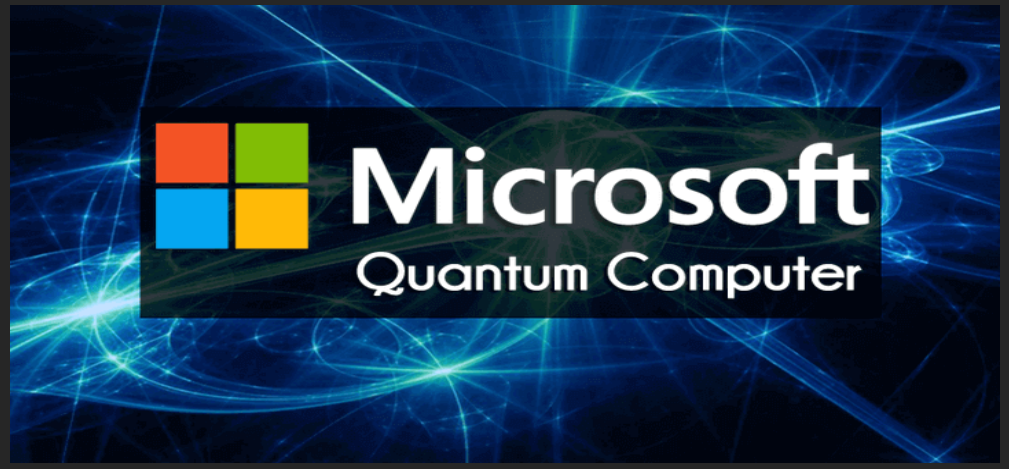
Quantum entanglement allows qubits that are separated by incredible distances to interact with each other instantaneously (not limited to the speed of light).



A quantum computer is used to direct a radiation beam that destroys the cancer cells with extreme precision and spares all surrounding tissue*.

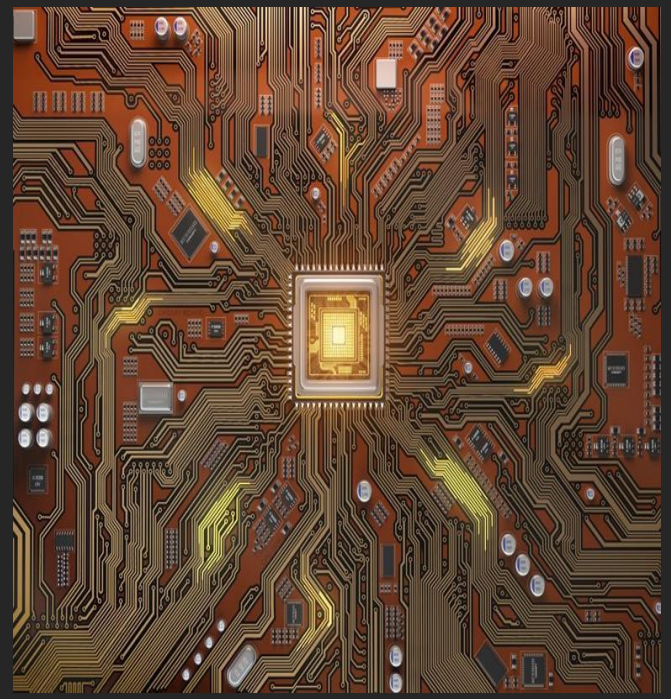
*Solenov, Dmitry et al. “The Potential of Quantum Computing and Machine Learning to Advance Clinical Research and Change the Practice of Medicine”*Missouri medicine* vol. 115,5 (2018): 463-467.

The computational power to generate diagnoses in real time or to increase the precision of imaging to detect early stages of cancer may soon push beyond the limits of the standard binary 0/1 system available to Watson.



Quantum Cryptography

Cryptography is expected to be the first application of quantum computing to enter medical practice to secure medical records and communication.



Can you buy a quantum computer?

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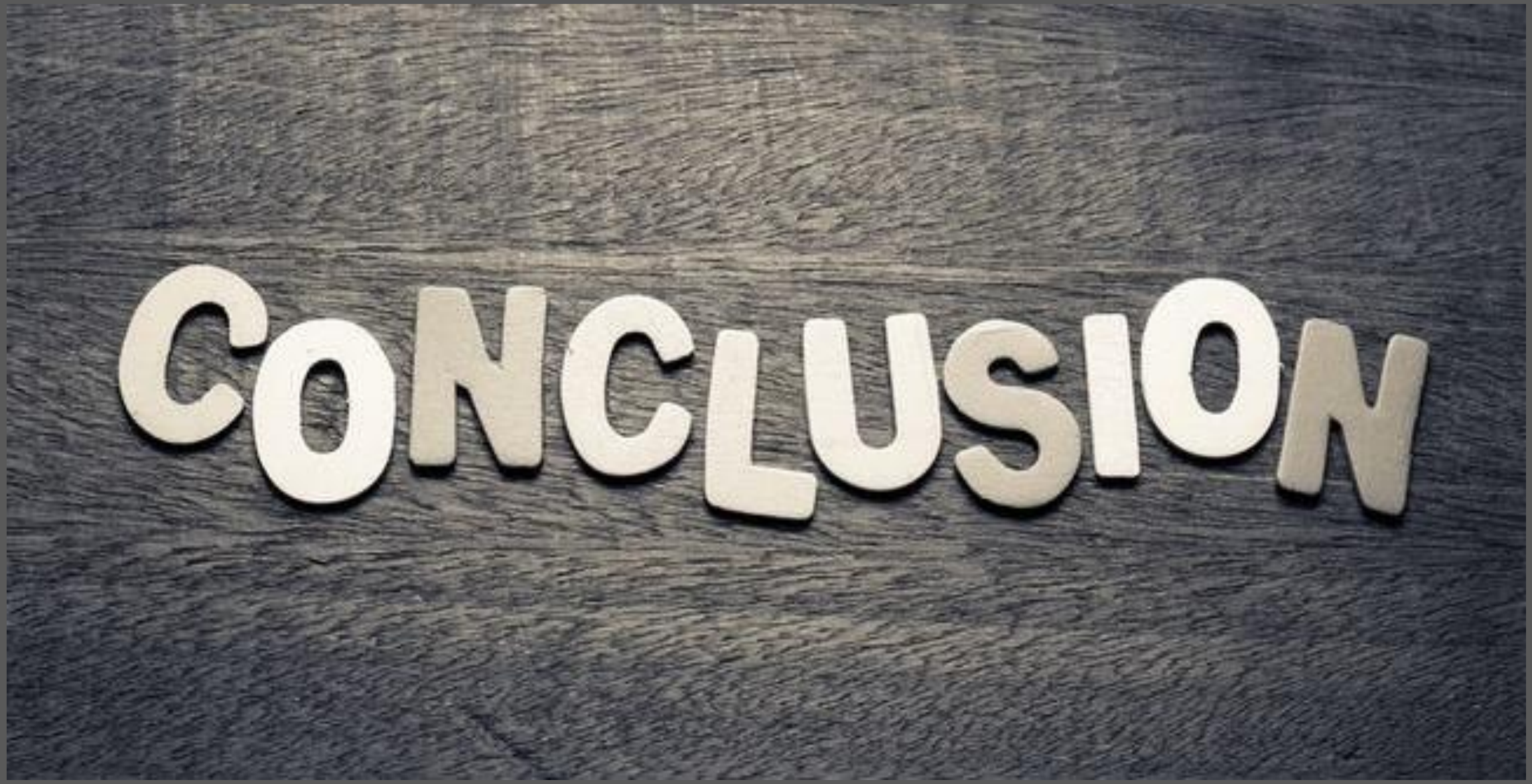
Can we shift completely?


CONCLUSION

THANKS FOR LISTENING

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