A story about (a)symmetry

José Ruiz







I will tell you three stories ...

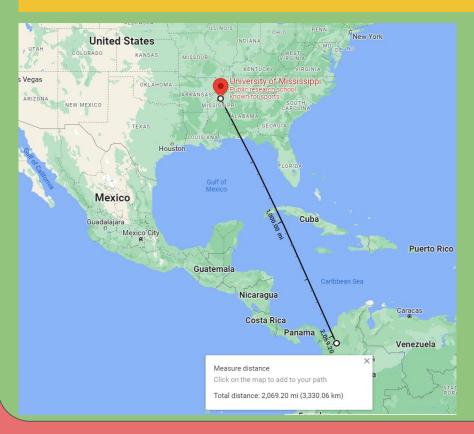
One about myself ...
One about Charlie ...
One about you ...

The story about you, begins here.

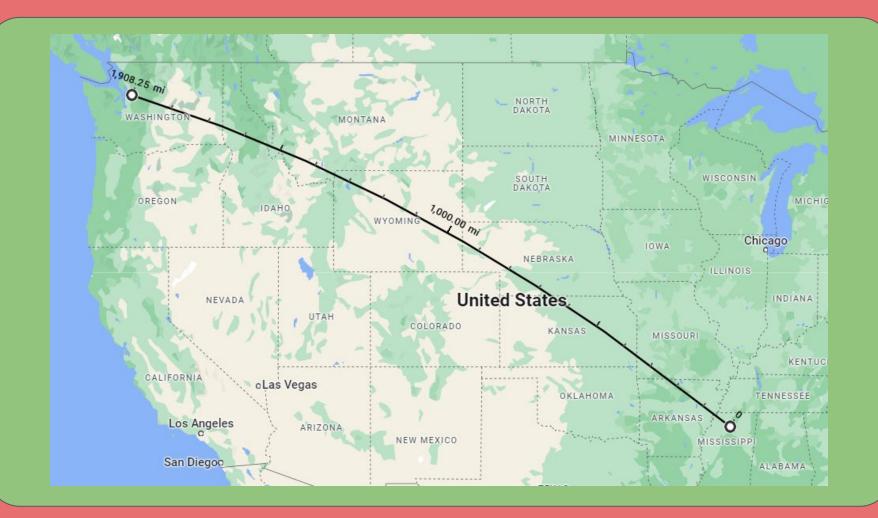
This is my story.

(short version)

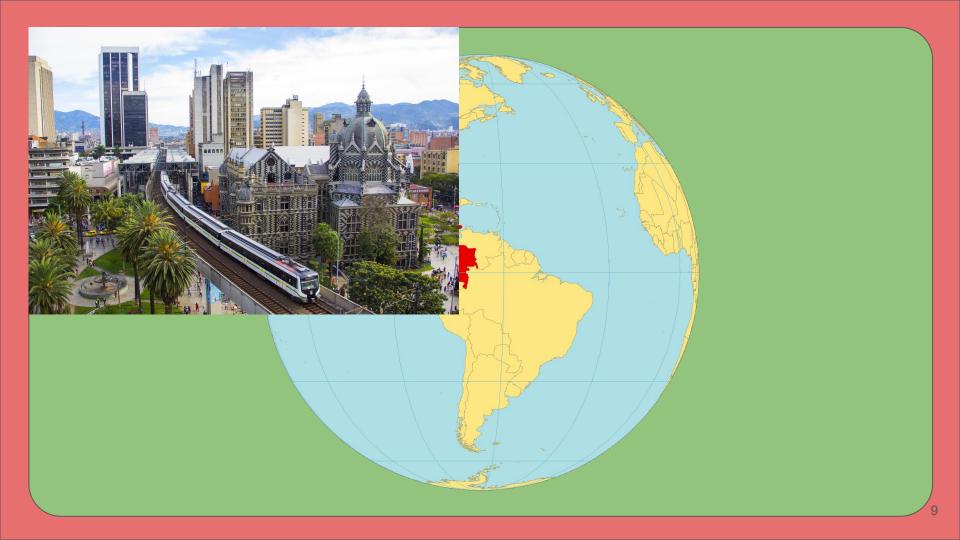
Profesor asistente José David Ruiz Álvarez





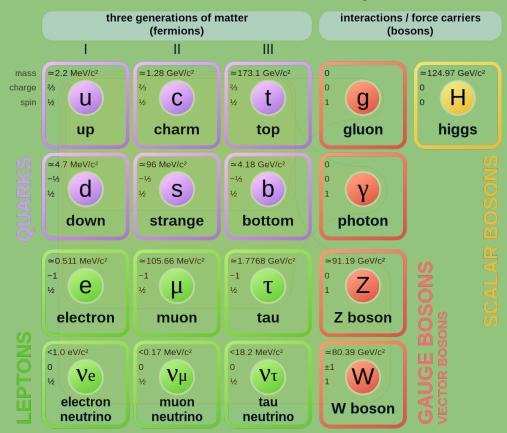








Standard Model of Elementary Particles





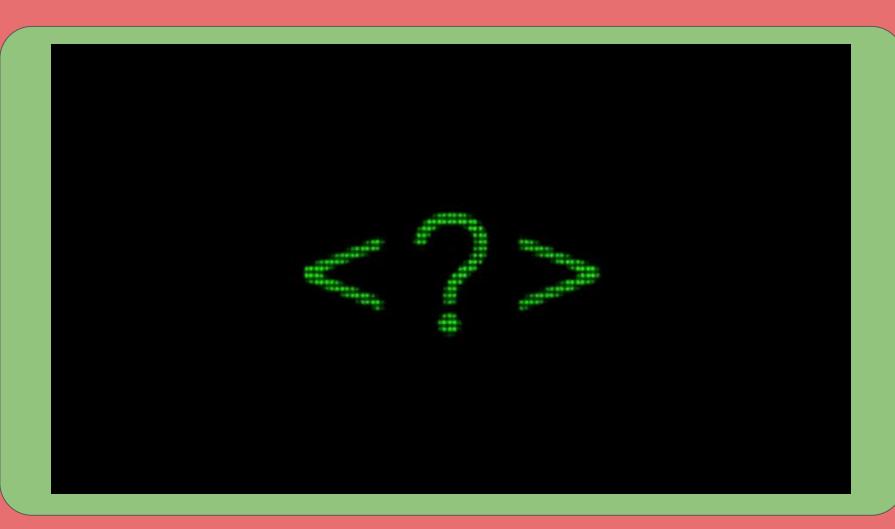


The story about Charlie, begins here.

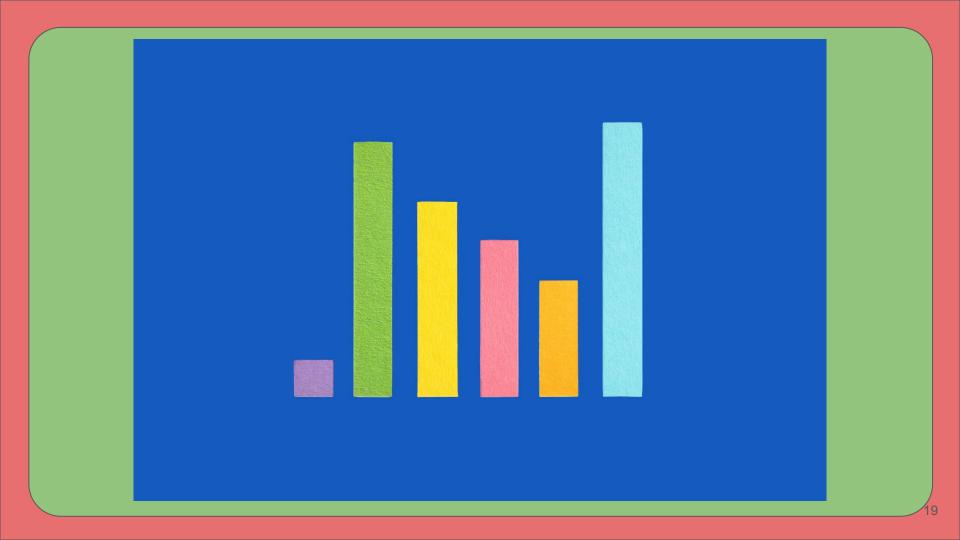


A set of difficult decisions to take:

- 1. Color to paint the walls.
 - 2. Best ice cream choice.
- 3. Best pie to be served with coffee.







Decisions were finally taken:

- 1. Light blue on the walls.
- 2. Pistachio and Vanilla in the menu.
 - 3. Chocolate and Pumpkin pies.



One day, a customer asked Charlie about the color of the walls.



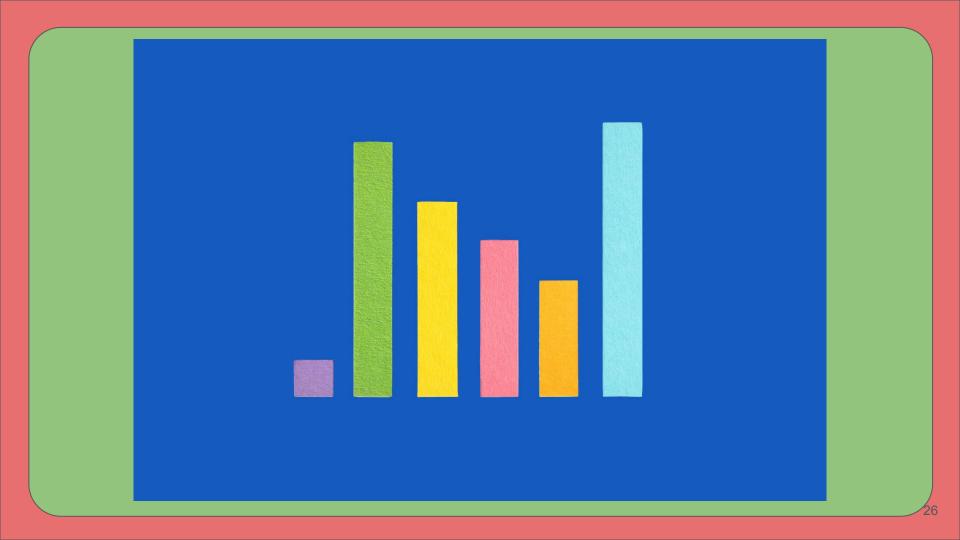


Another day, a customer asked Charlie about the ice creams.



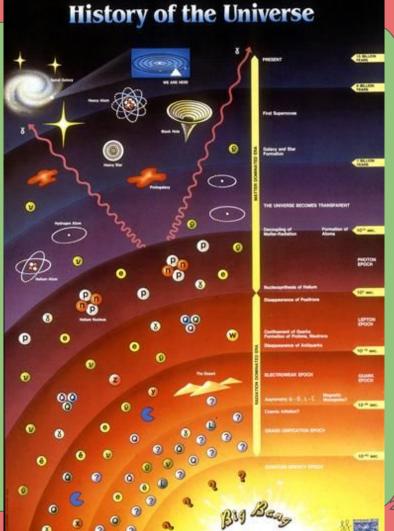


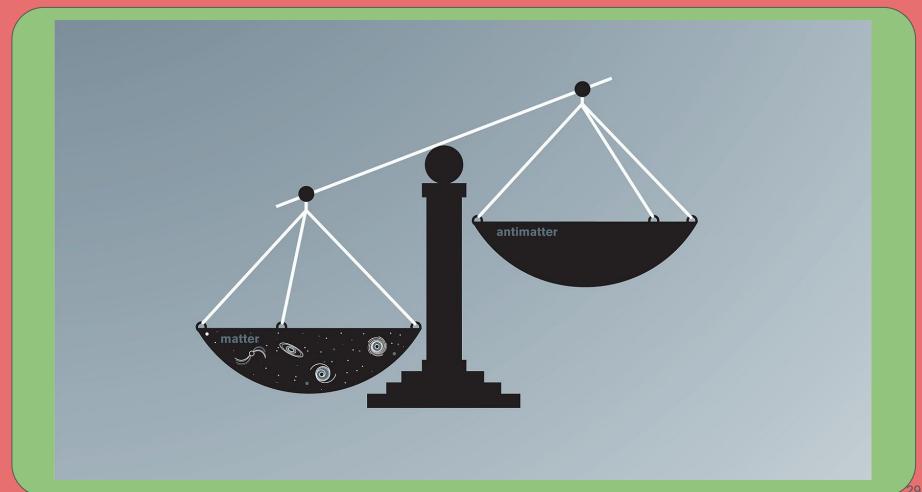
And finally, someone also asked about the pies.



Well, that's exactly like nature!

Standard Model of Elementary Particles three generations of matter interactions / force carriers (fermions) (bosons) Ш ≈2.2 MeV/c² ≃1.28 GeV/c² ≃173.1 GeV/c² ≃124.97 GeV/c² charge u charm higgs top gluon up ≃4.7 MeV/c² ≃96 MeV/c² ~4.18 GeV/c² S b bottom photon down strange ~105.66 MeV/c2 ≃0.511 MeV/c² ≈1.7768 GeV/c2 ≃91.19 GeV/c2 e electron muon tau Z boson <0.17 MeV/c² <1.0 eV/c² <18.2 MeV/c² ≃80.39 GeV/c2 electron muon tau W boson neutrino neutrino neutrino





Charlie's response since then: "It's exactly like nature!"

The story ends here, with a small coda



Thanks

