#### Source:

#ref #ret #disorganized #incomplete

## 1 | Larger themes

Video? perhaps like Melody sheep? https://www.youtube.com/watch?v=ThDYazipjSI heavy blender

## 2 | General research

start with: How did life start?

content: theories of how life started,

explain miller-urey

end with we are not alone in the universe explanation:

life is inevitable

### 2.1 | three theories

· Volcanic clay

- In simulated ancient seawater, clay forms a hydrogel a mass of microscopic spaces capable of soaking up liquids like a sponge. https://www.sciencedaily.com/releases/2013/11/131105132027.htm
- chemicals confined in those spaces could have carried out the complex reactions that formed proteins, DNA and eventually all the machinery that makes a living cell work. Clay hydrogels could have confined and protected those chemical processes until the membrane that surrounds living cells developed.
- theorists have shown that cytoplasm the interior environment of a cell behaves much like a hydrogel.

# 3 | Outline

Life is amazing, incredibly complex, the question becomes, how did it start?

Three theories:

volcanic clay deep sea vents tides of ponds

But there's more than just theories:

miller-urey experiment

TRANSITION IDEA

At home in the universe

Life, is - inevitable.

Sponsered by shabang studios!

Huxley · 2020-2021 Page 1