

Strange Charm
Hank Green

Capo 3

C **C** **F**
A quark is a fundamental constituent of matter

G **F** **C**
Observed in 1968 through deep electric scatter

C **F**
We found that protons were more complex than we thought

G **F** **C**
We thought they were solid particles but they are not

C **F**
Protons in fact are made up of three separate pieces

G **F** **C**
It just gets more confusing as our knowledge increases

C **F**
And that is what a quark is; it's a piece of a proton

G **F** **C**
And they also make up other things including the neutron

C **F**
Up down strange charm top bottom

G **F** **C**
If you don't know what a quark is it doesn't matter, you still got em

C **F**
And with leptons and bosons unless something's amiss

G **F** **C**
They make up everything that we can see and that we know exists

C **C** **F**
Things made up of quarks including protons and neutrons

G **F** **C**
Are composite particles that physicist call hadrons

C **F**

Many times those hadrons are theoretically described

G **F** **C**
But most exist for only very brief amounts of time

C **C** **F**
Quarks have electric charge, colour charge, mass and spin

G **F** **C**
And having colour charge means they exist solely in side

C **F**
Other kinds of particles that cannot exist alone

G **F** **C**
Which is why quarks have never been studied on their own

C **F**
Up down strange charm top bottom

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G **F** **C**
They make up everything that we can see and that we know exists

C **C** **F**
These tiny bits of matter are part of almost everything

G **F** **C**
There is no unified theory to make it less confusing

C **C** **F**
But the fact that we've identified that they exist at all

G **F** **C**
Is so remarkable that I am constantly in awe

C **F**
Up down strange charm top bottom

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And with leptons and bosons unless something's amiss

G **F** **C**
They make up everything that we can see and that we know exists