A Discrete Universe?

Common sense perceptions tell us the world is made up of individually separate and distinct structures and sub-structures of things. What are those "things" though? Which is the most fundamental? We once thought of molecules as the most fundamental. Then atoms were. Then quarks. Logic tells us that whatever is most fundamental, it would have to have no parts. Otherwise, those parts would be more fundamental. But how can anything have no parts. Even one-celled organisms have parts. We seem to a have universe with parts and sub-parts where there will infinitely be a more fundamental element.