Same but different: "common-substring" vs "Kolmogorov complexity"

written by smooch on Functor Network original link: https://functor.network/user/3157/entry/1256

I notice something of an inverse relationship between "the common-substring problem's solution", and "Kolmogorov complexity" — in the sense that "each is comprised of (and defined by) the set of constituent elements, which are excluded and ignored by the other"...

... but i can't find this relationship discussed anywhere: —might anyone point me towards the correct search-term, or some 'accessible' texts, on this relationship?

To explain:

1. The solution to the "common-substring problem", is all of the "common words, and strings thereof", between two input texts

the "common-substring problem" is typically discussed in terms of finding only the "longest common-substring" — but rather here, we will be interested in "all commonality"

2. "Kolmogorov complexity" frames the "randomness" and "incompressibility" of some sequence; and is based upon a process which "replaces" sub-strings which exist elsewhere (typically framed as the result of some generator function), referred to as compression; leaving only the unrecognised elements behind, which are considered "random" (and incompressible)

So, if we consider our two (input) strings from the "common-substring problem", imagine:

i. the first, as "the source of candidate sub-strings for kolmogorov compression replacement", and

ii. the second, as "the active sequence which is compressed by every candidate substring from (i) found in itself" — (leaving only elements which are not replaced)

What I'm pointing at then, is the way in which:

a) for sequences a, b, with "common" elements c (found $a \cap b = c$)

b)	the "uncommon" elements u , (found by $a \setminus c = u$, or $b \setminus c = u$), equate
	to "incompressible" elements; which when measured, result in "kolmogorov
	complexity" k, where $ u = k$
	—is this "correct"?

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Many thanks!