Source: |KBISOSMasterIndex|

1 | Robustness

#flo #disorganized

- · Aristotle as seed of idea triangulation
 - · The idea of confirming a phenomenon through multiple ways of observation
 - Not a thing that people talk about much, but present in many philosophies
- · Robustness Analysis
 - · Based on concept of triangulation
 - · Basic steps
 - 1. Analyze a variety of independent derivations
 - · This could mean a lot of things, like
 - · Different senses of the same thing
 - · Different procidures to sense the same thing
 - · Different assumptions to verify the same thing
 - · Different tests of the same thing
 - 2. Look for identical conclusions from these different derivations
 - 3. Analyze the scope and conditions from which these derivations exist
 - 4. Analyze any failures of the invariance
 - If, under step 4, there be things that are invariant and within the margin of falure, the analysis is "robust"
- · Common theme across all types of robust analysis
 - · Distinction between the material and the unmaterial
 - Each verification process is independent
 - Robustness evaluated on the basis of "changeability" that is, if under different circumstances, theories are unmutating, they are more robusta
- · Robustness prevents the "weakest link problem"
 - · With multiple derivations under different assumptions, problems could be spotted independently
 - Thus, if one point in one senario theory breaks down, you either notice it very quickly or the theory is not entirely disproven although less robust
 - If one arm is simply weakened, still the others could support the theory and the special case could further lead to scientific discovery
- Failures of robustness analysis "illusions of robustness"
 - Supposedly independent tests acutally dependent
 - For instance, IQ tests are not actually quite that independent of social factors
 - Not very easy to detect

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