Applied Compositional Thinking for Engineers (ACT4E)

Recital 3

Questions & Answers

Q: what is a component (components)? Why List[Setoid]?
A: The product is composed of sets. For instance you could have the product: {a,b}x{1,2}, where the components are sets {a,b} and {1,2}. If you list the components, you have a list of sets.

Q: Why is cartesian product not associative?
A: Explained in the lecture. The set (X1 x X2) x X3 is not equal to X1 x (X2 x X3), but only *isomorphic*. The listy product we introduced overcomes this issue.