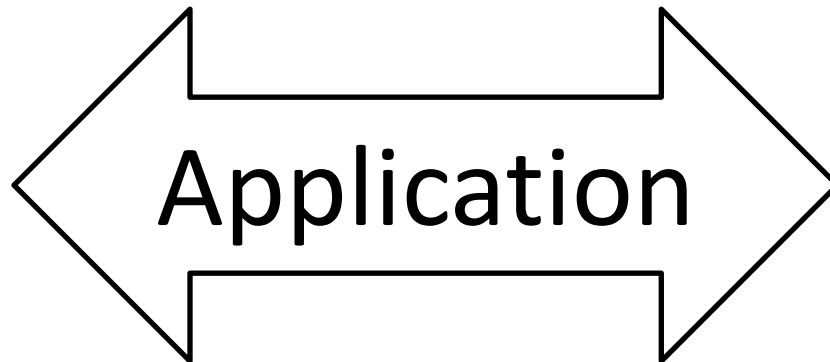


Problems of application programming

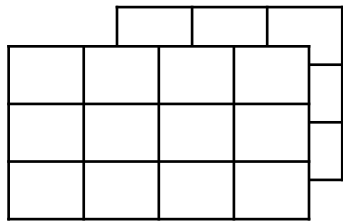
WG2.16 Feb 2012

Jonathan Edwards

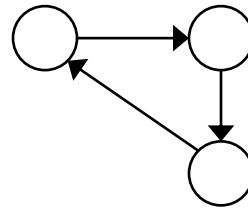
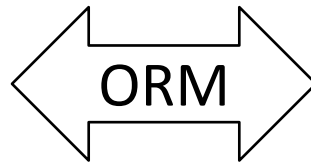
sdg MIT



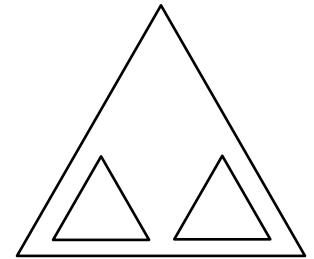
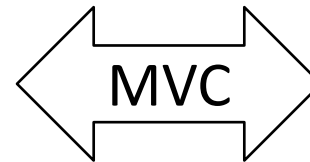
Problem 1: impedance mismatch



Relations

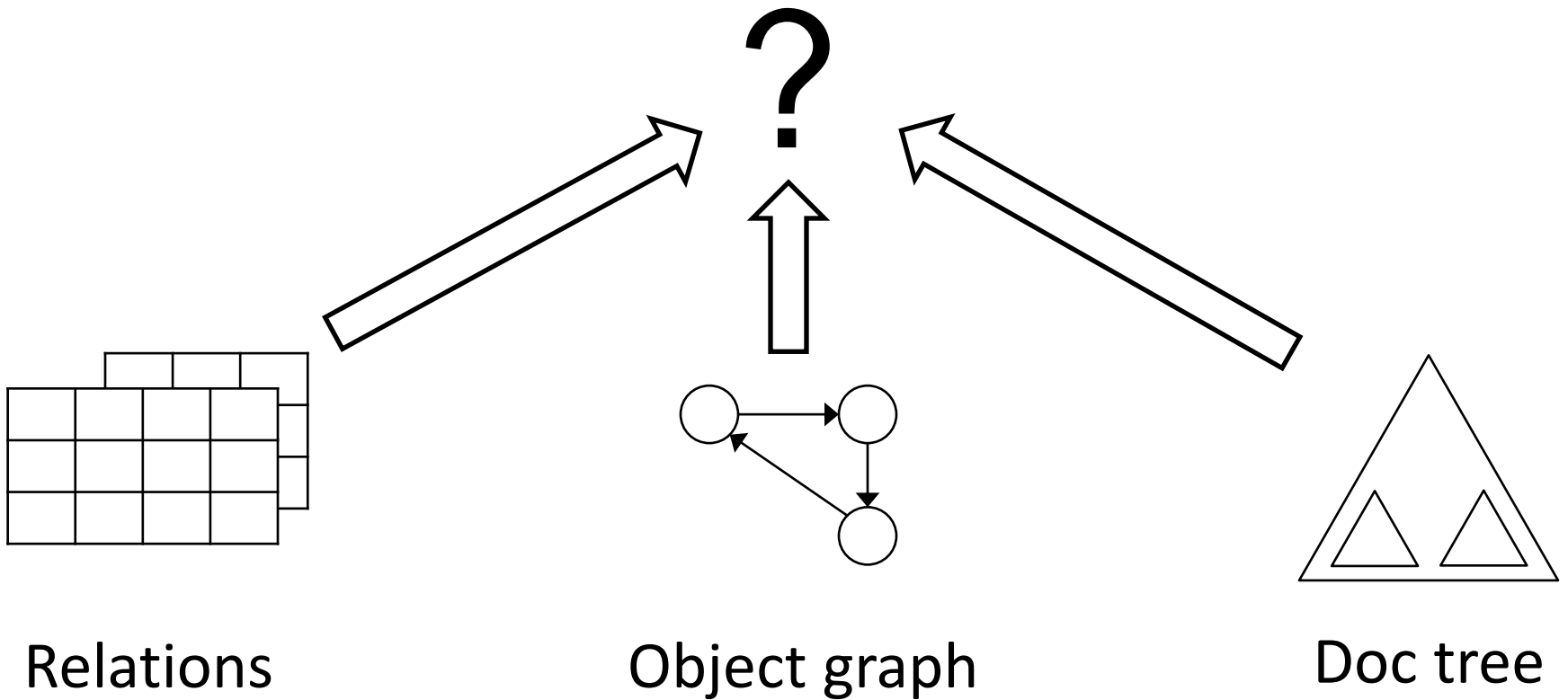


Object graph

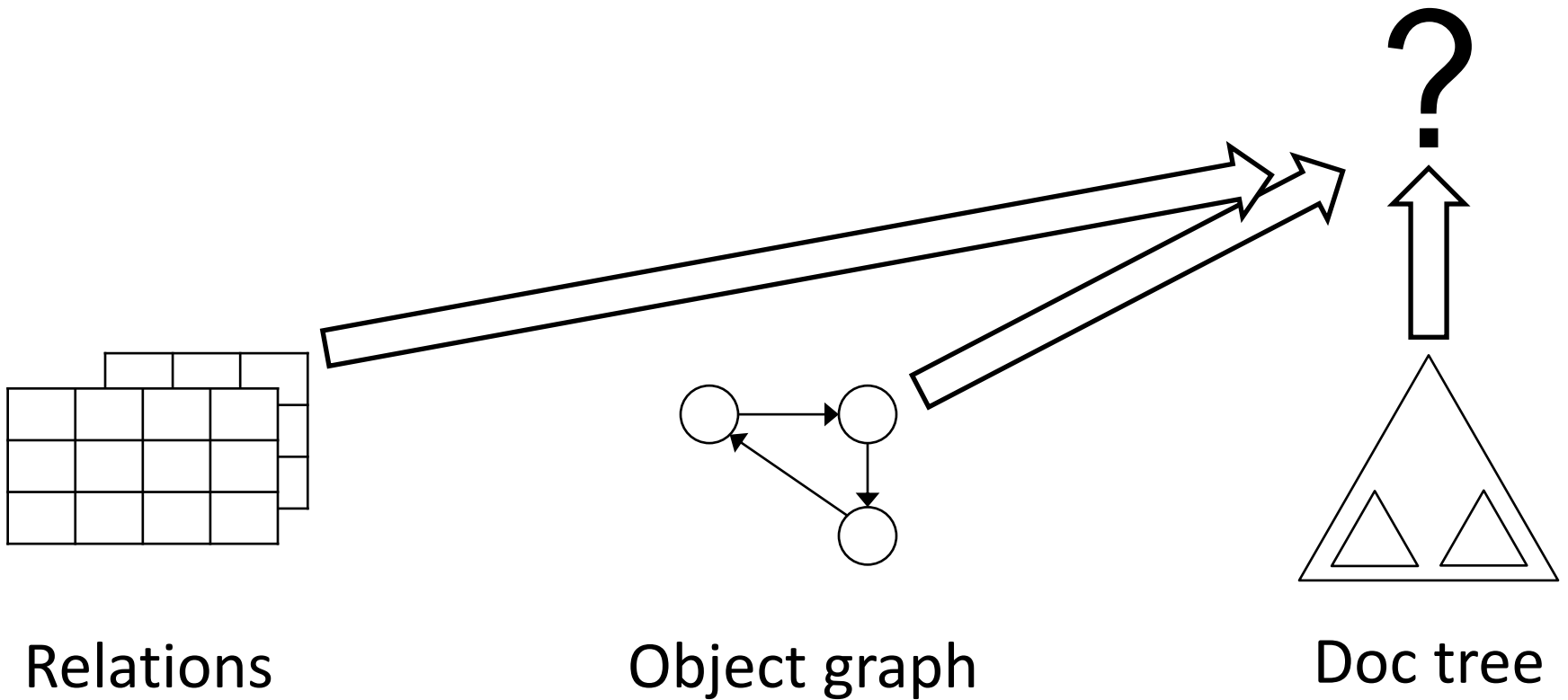


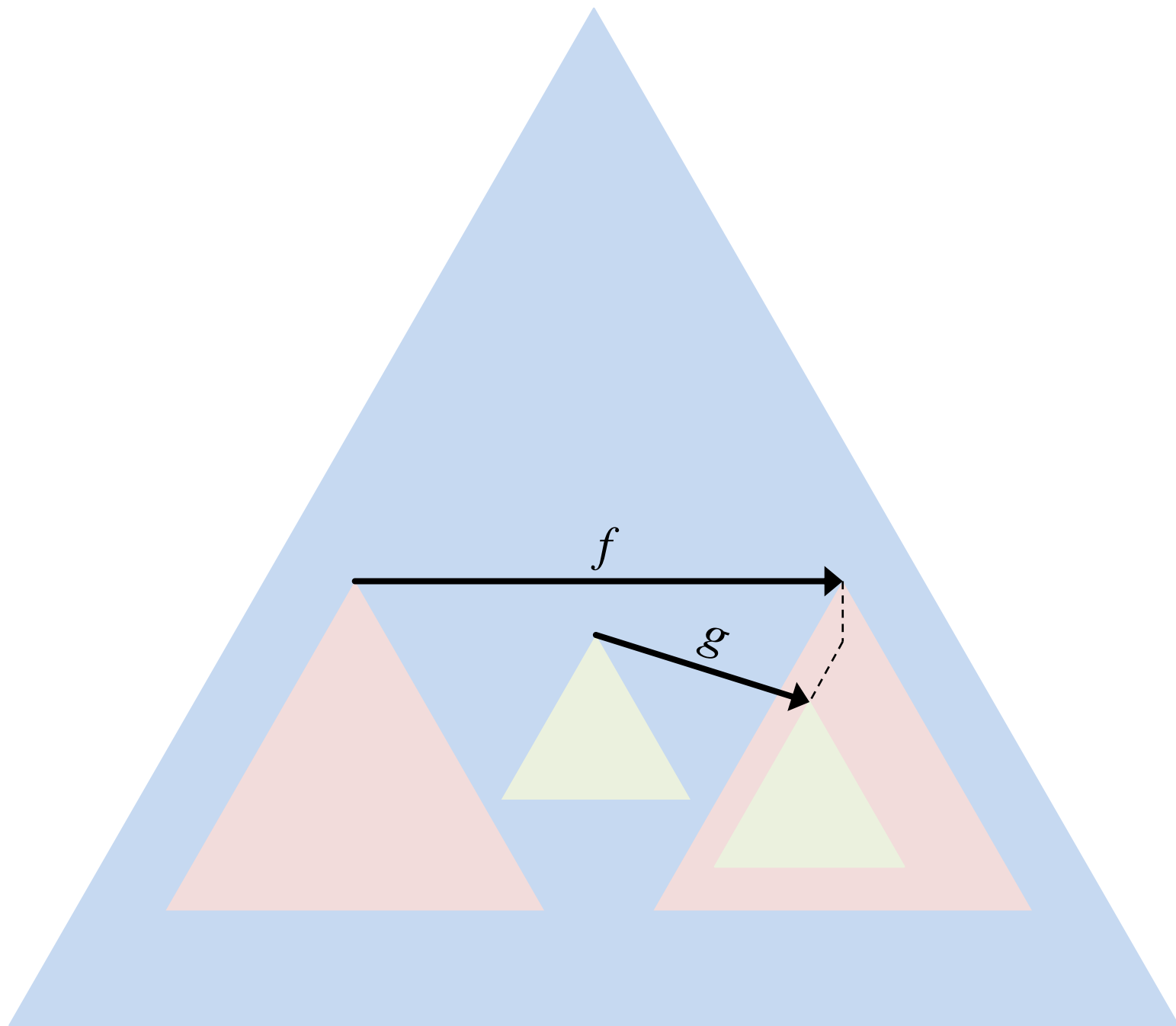
Doc tree

Solution: unification



Solution: unification





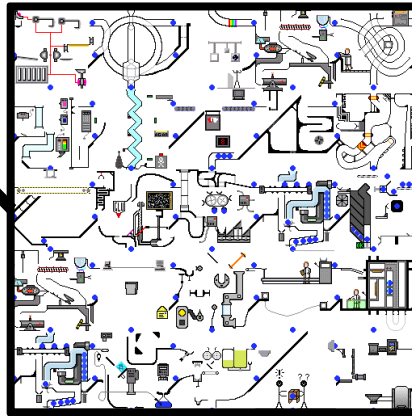
Problem 2: input



Model



View

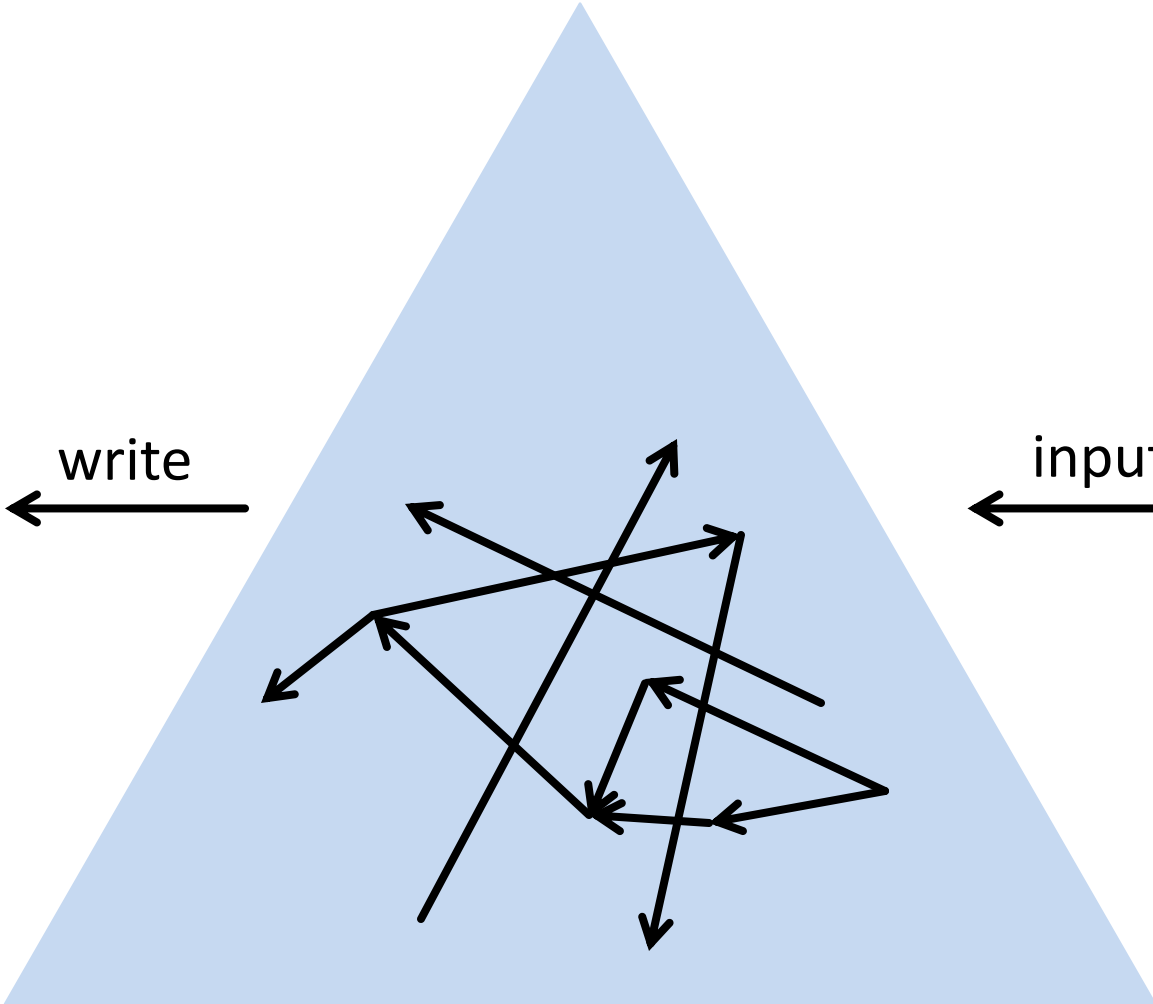


Controller

- 1/3 of the code in Adobe's desktop applications is devoted to event handling logic
 - 1/2 of the bugs reported during a product cycle exist in this code
- Sean Parent, Adobe Software Technology Lab 2006



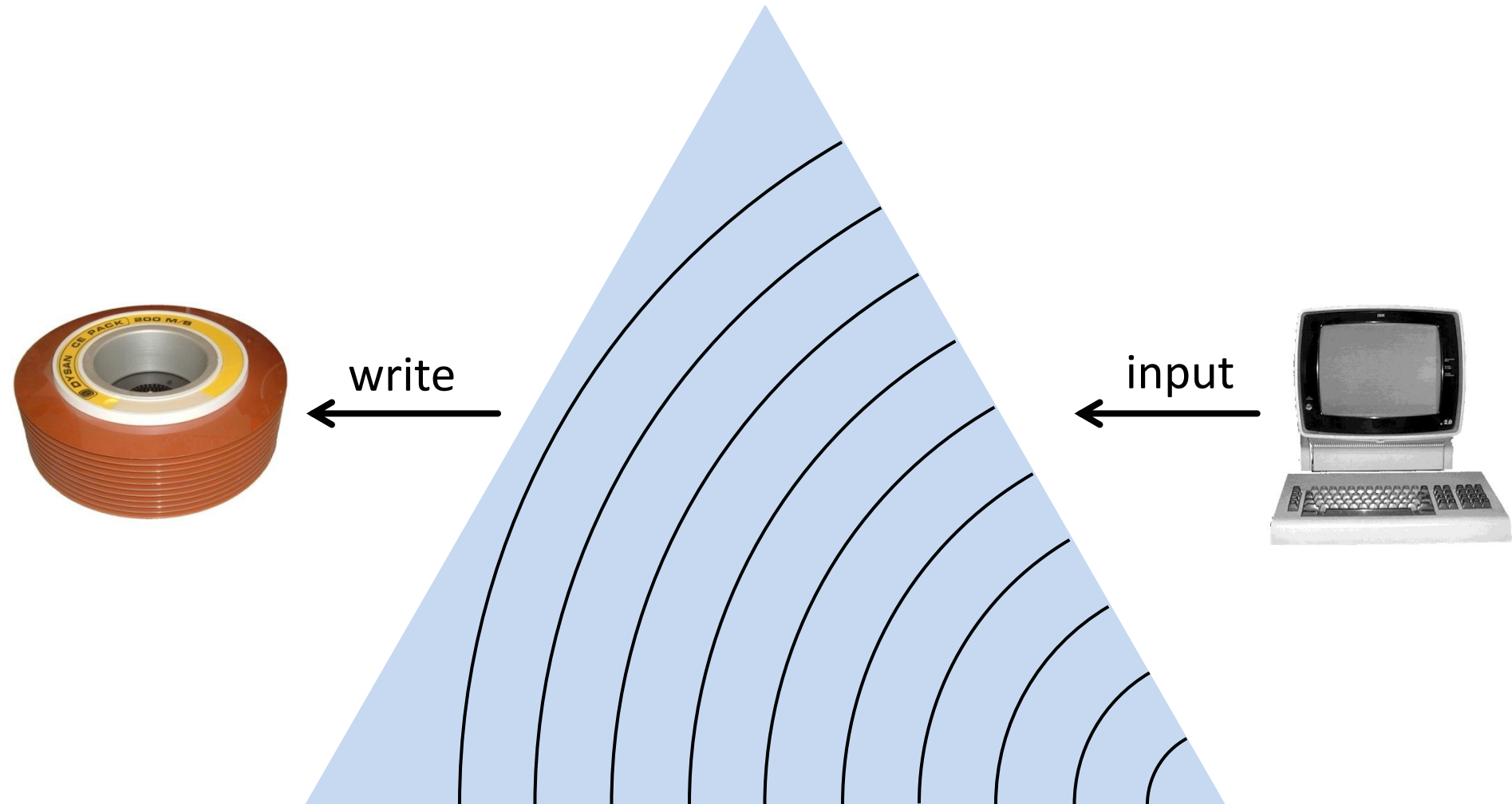
write

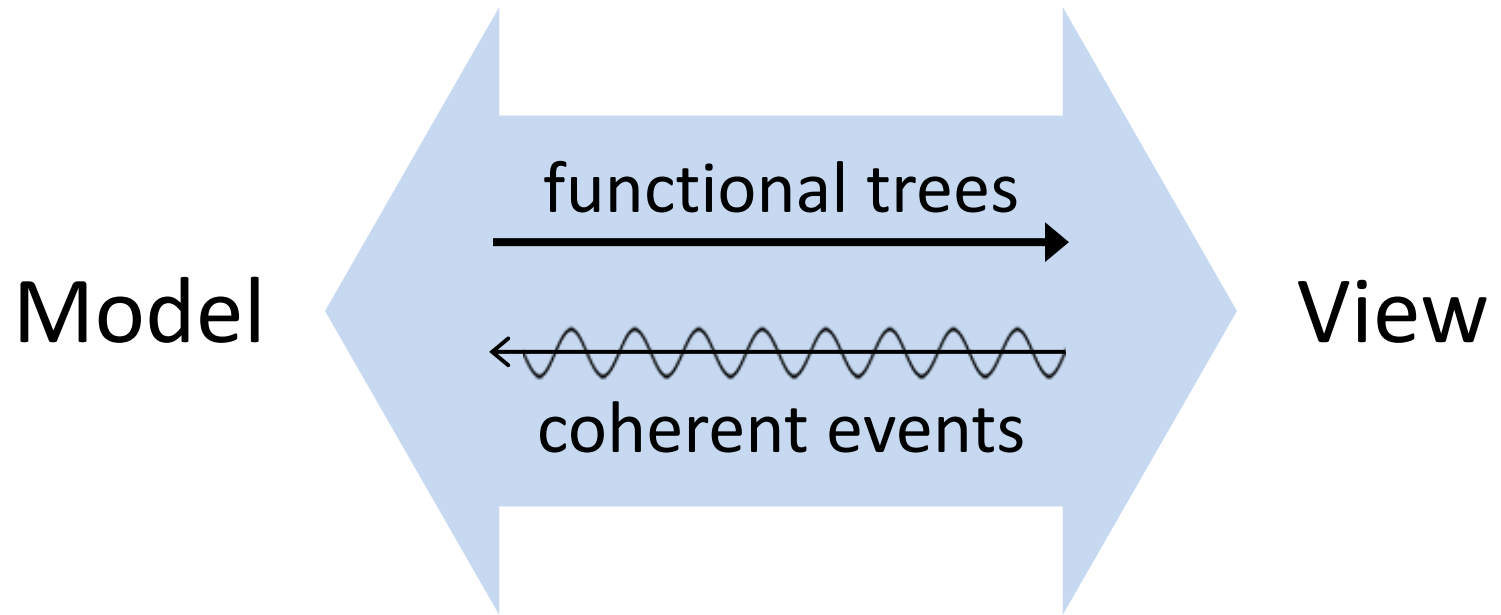


input



Solution: coherent events

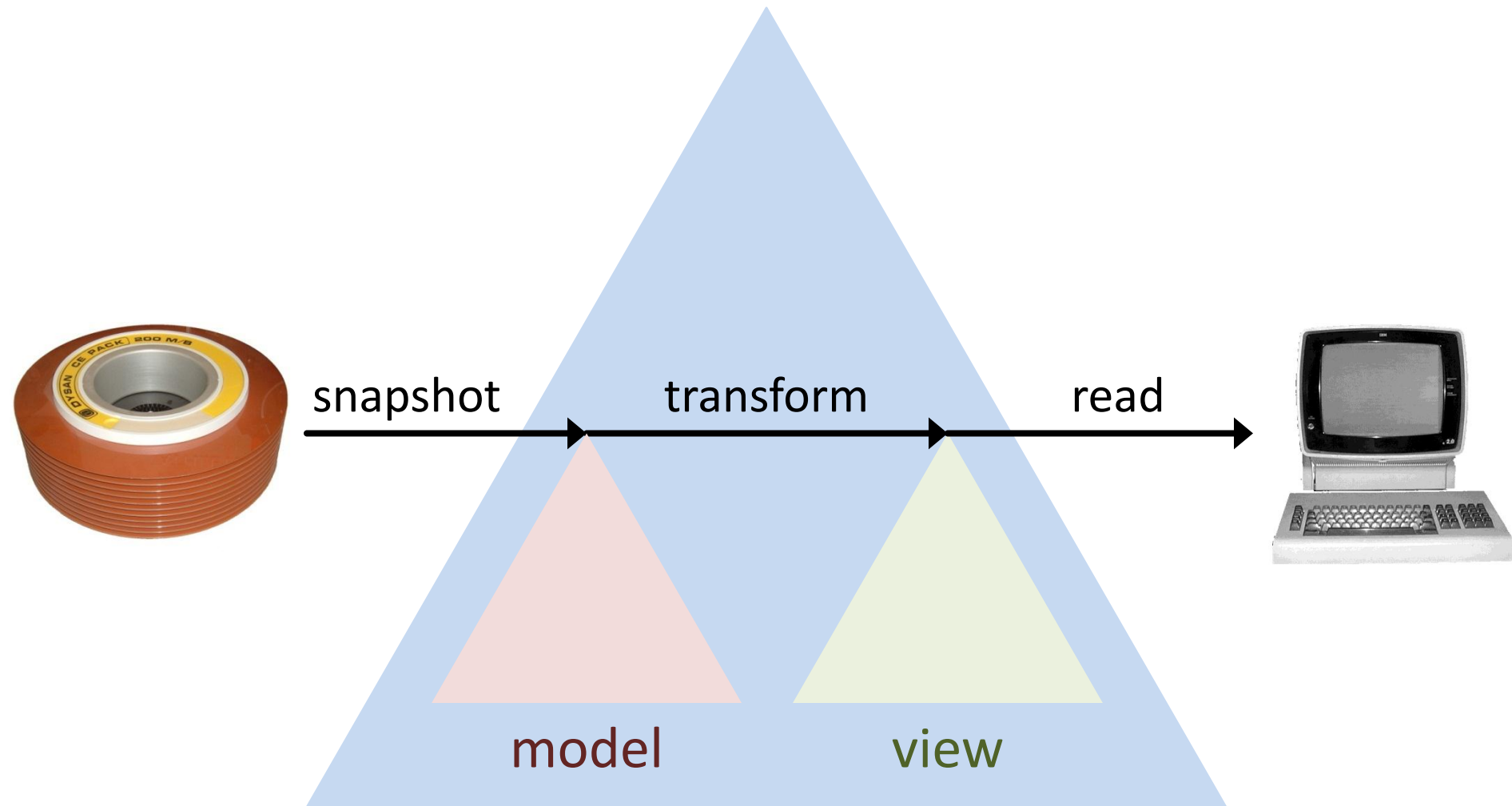




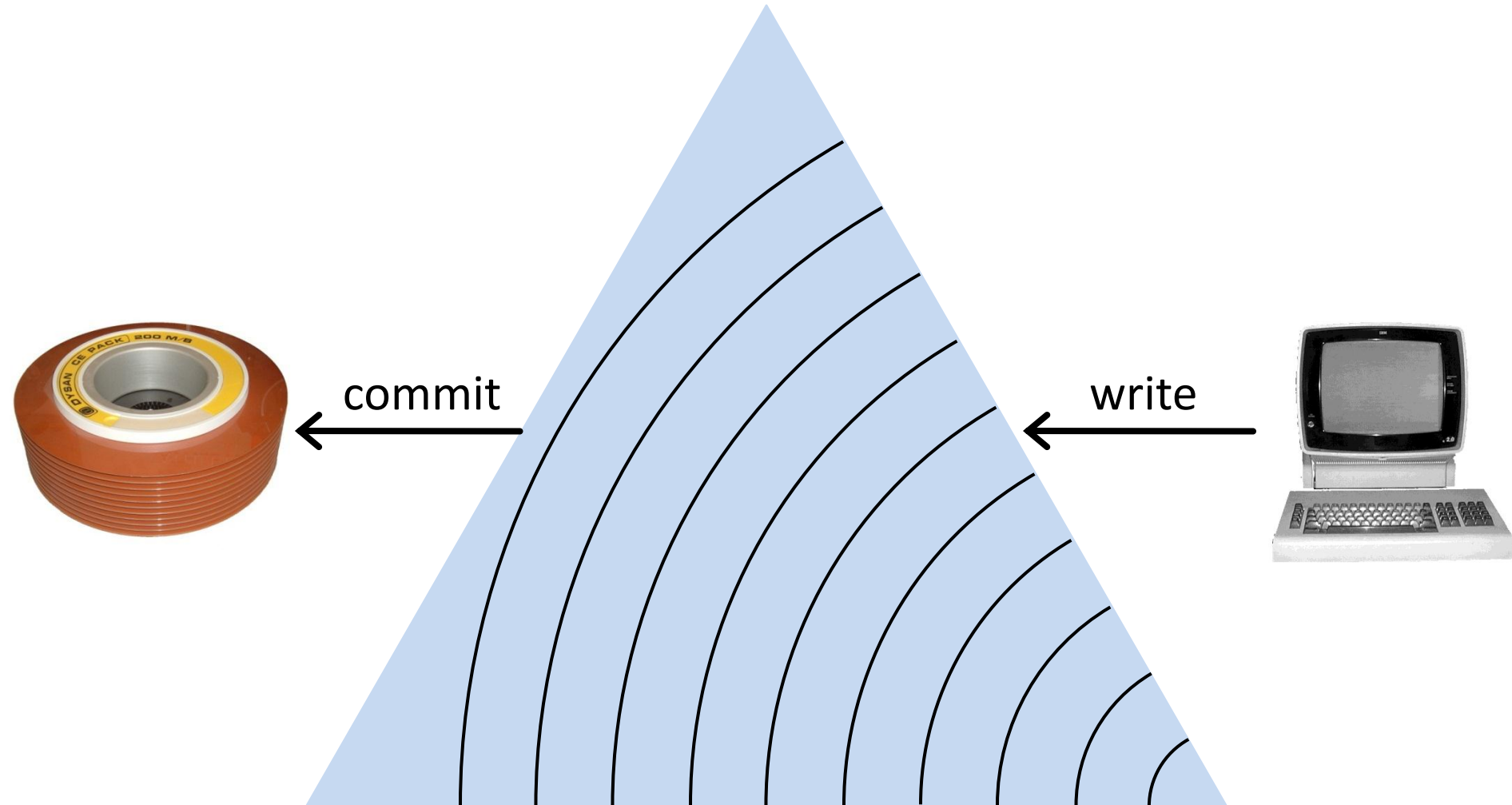
Demo



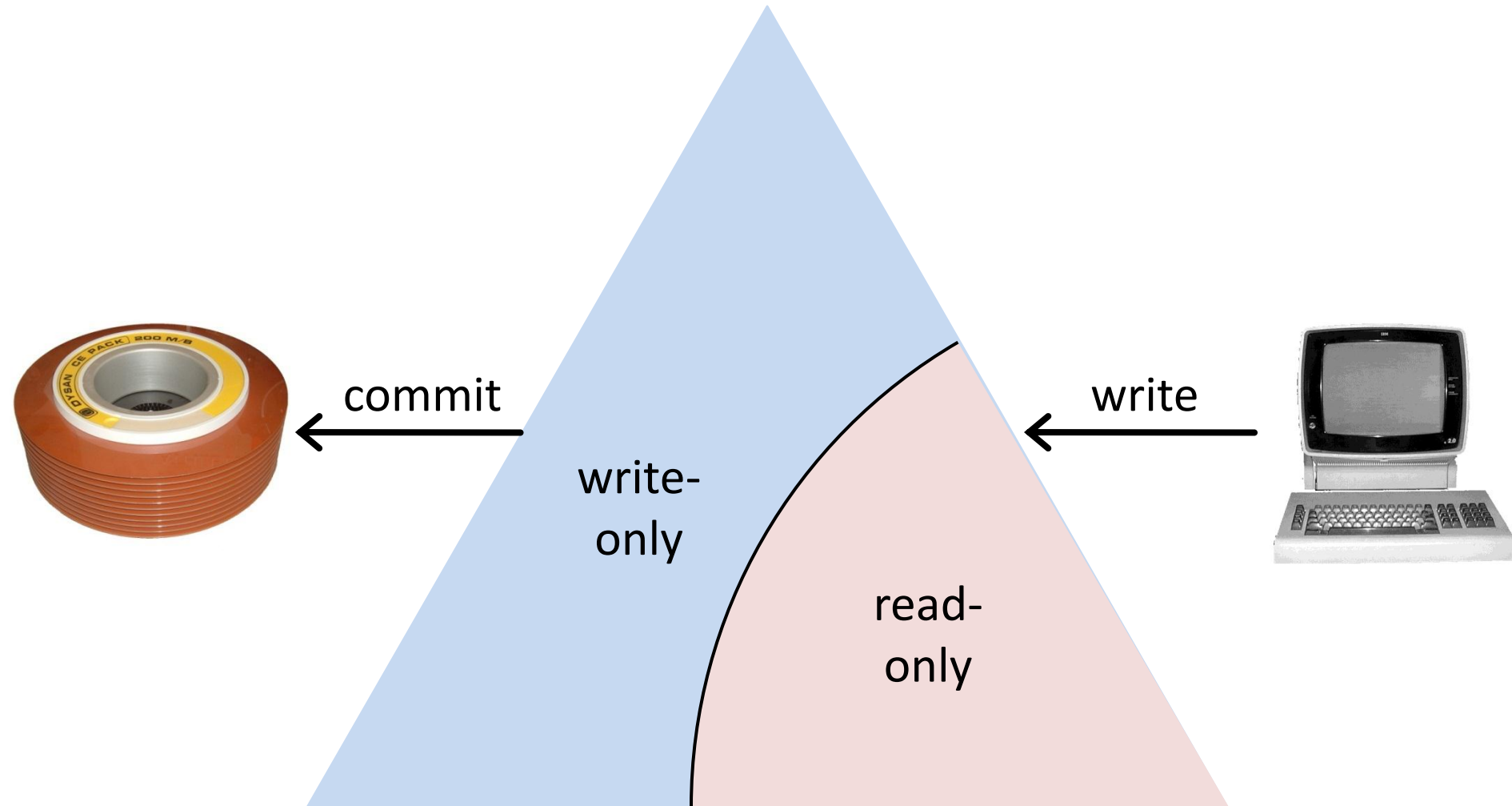
Output: read-driven functional trees



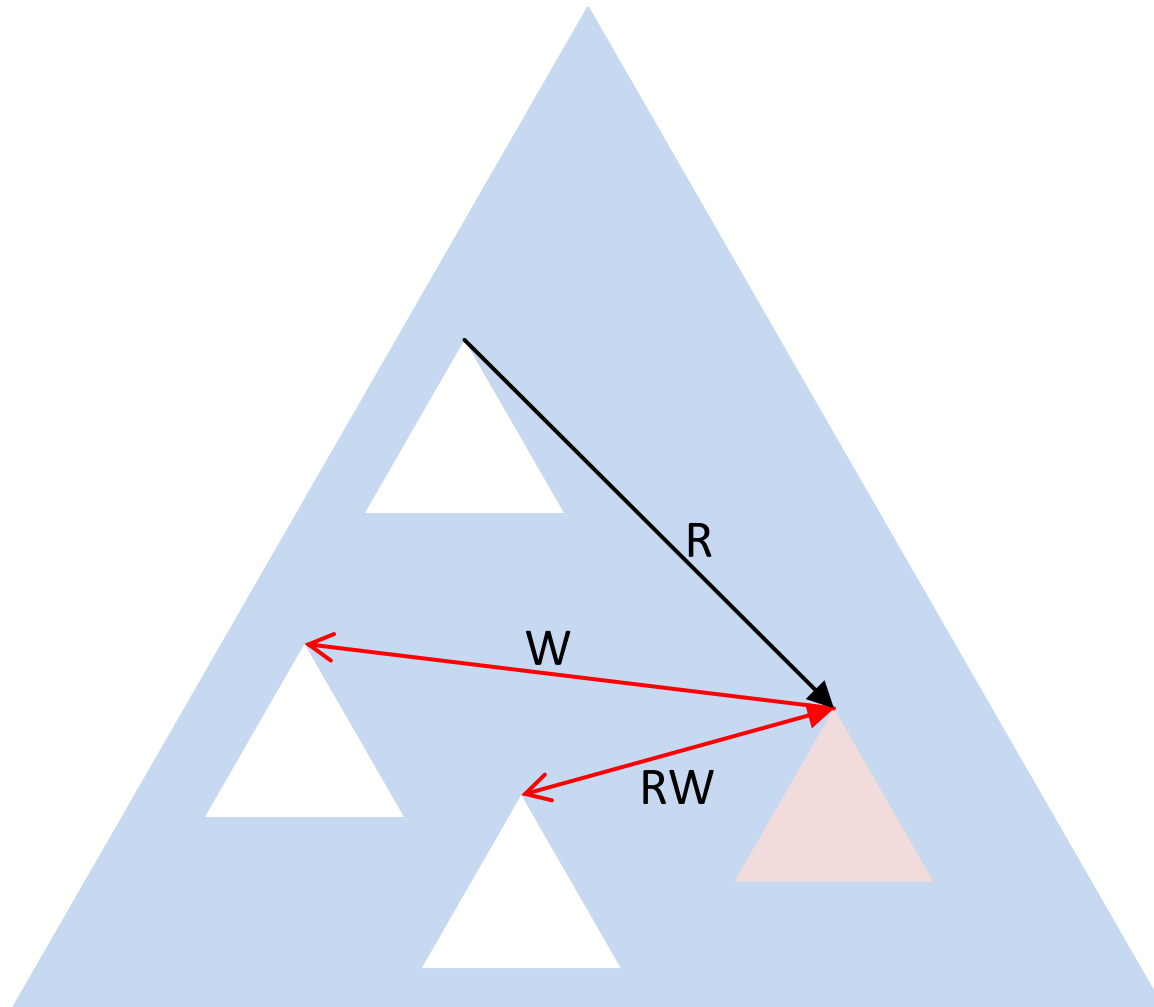
Input: write-driven coherent events

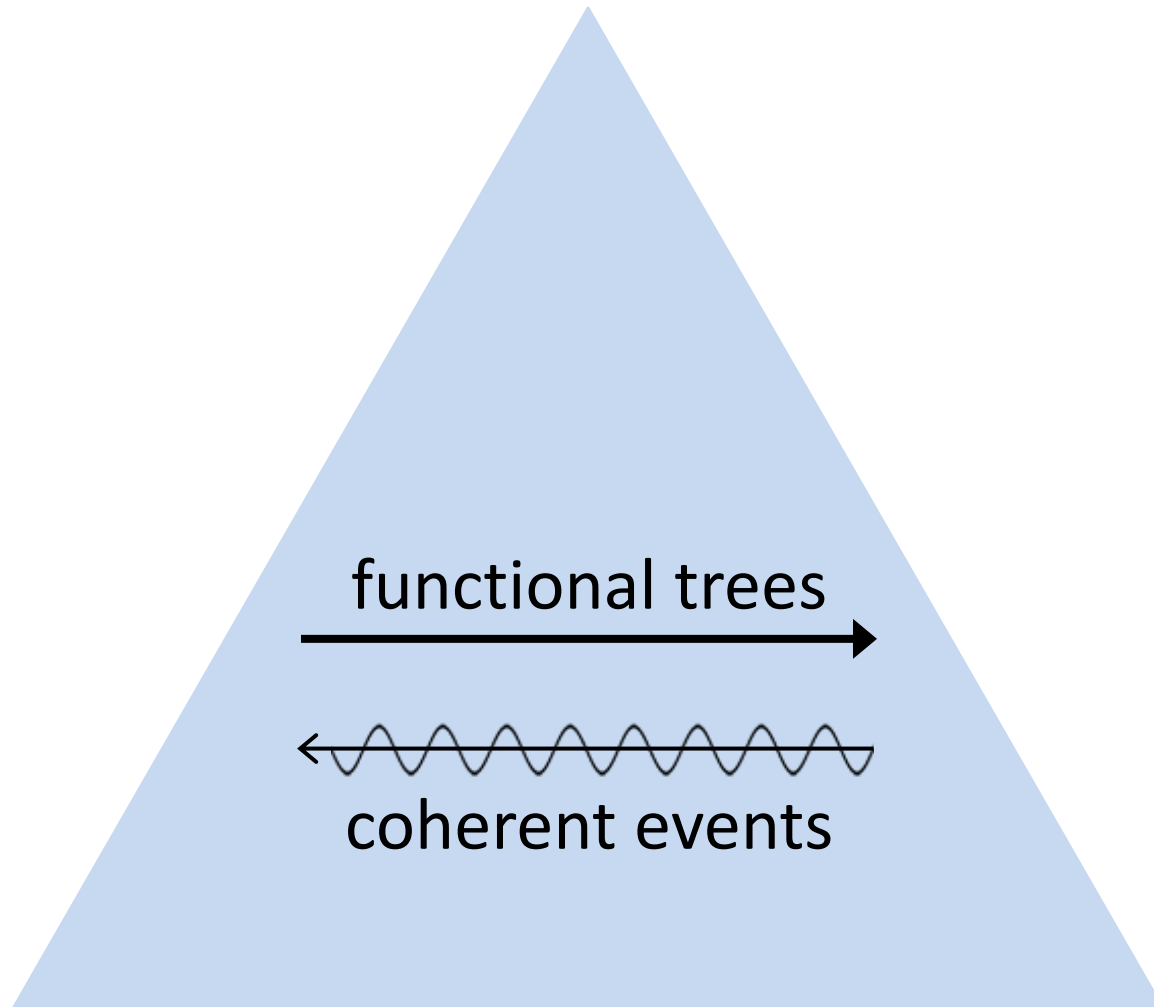


Input: write-driven coherent events



Static effects





so what?



<10%

