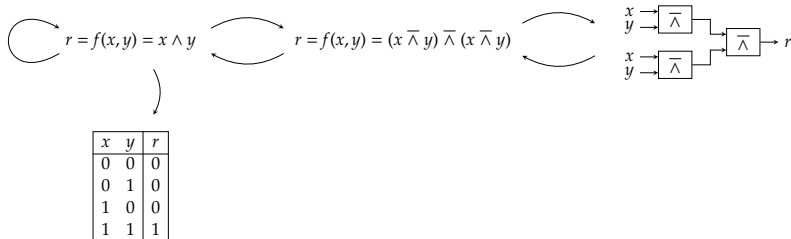


► Agenda:

1. ...

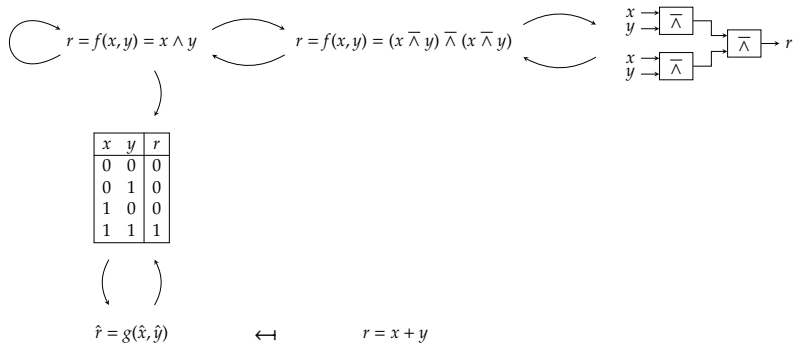
Unit summary (1)

Low-level perspective: arc #1 = “no remaining magic between abstract and concrete computation”



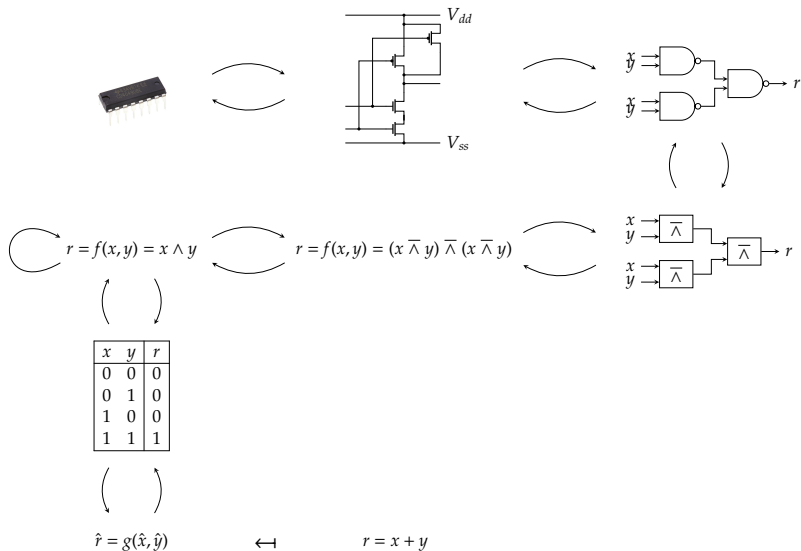
Unit summary (1)

Low-level perspective: arc #1 = “no remaining magic between abstract and concrete computation”



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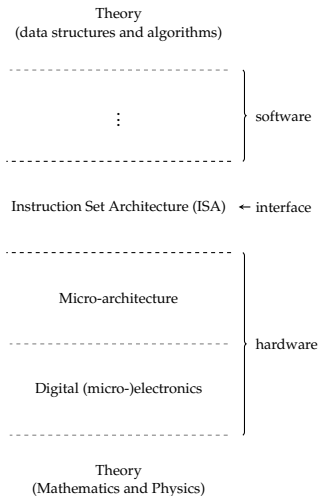
Unit summary (2)

Low-level perspective: arc #2 = “progressively more involved versions of addition”

theory	↗	representation	}	unsigned and signed integer
theory	↗	computation		"school-book" addition algorithm
	⋮			
combinatorial logic	↗	fixed function computation, not stateful	}	full-adder cell, ripple-carry adder
sequential logic	↗	fixed function computation, stateful		}
FSM	↗	fixed function computation, stateful	}	
RM	↗	not fixed function computation, stateful		
	⋮			
micro-processor	↗	not fixed function computation, stateful	}	add instruction

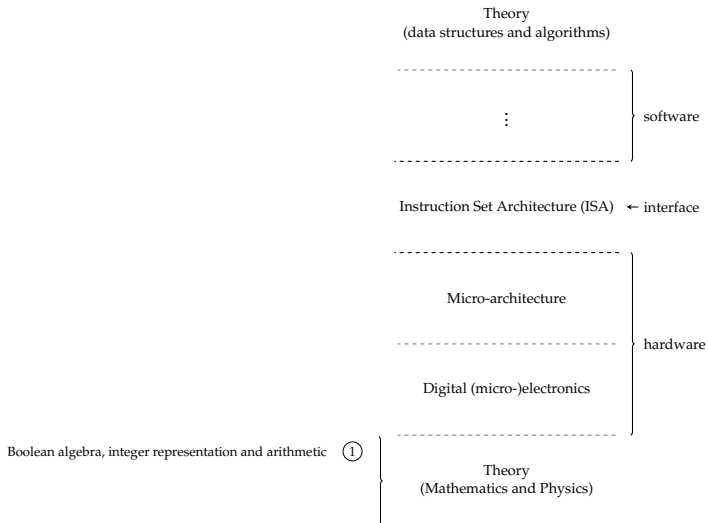
Unit summary (3)

High-level perspective



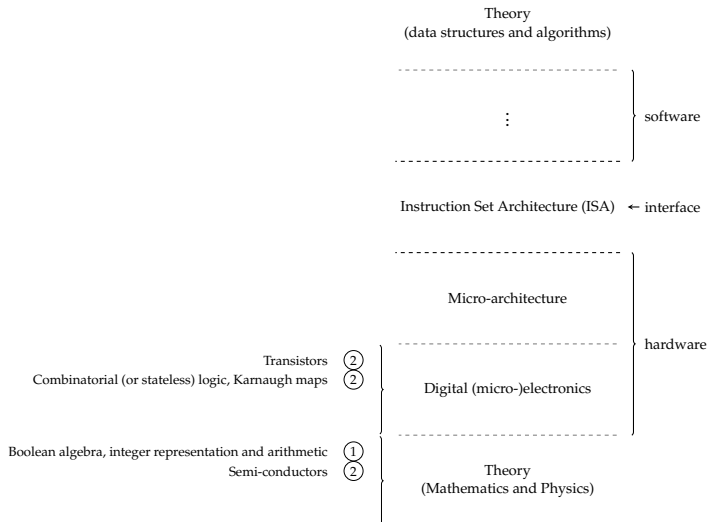
Unit summary (3)

High-level perspective



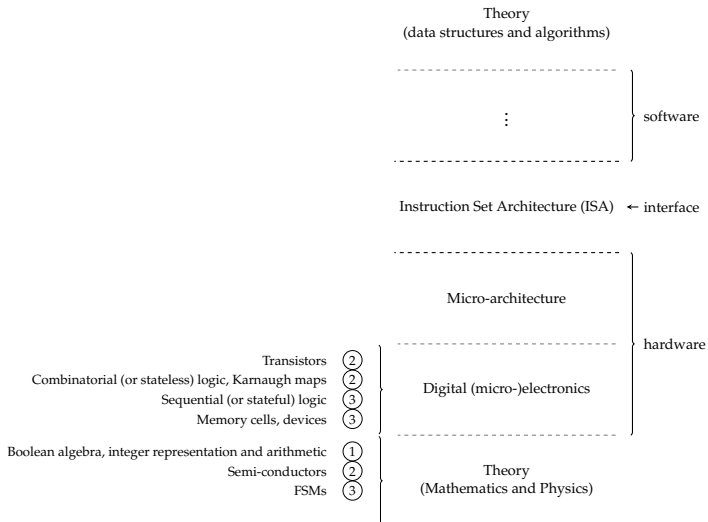
Unit summary (3)

High-level perspective



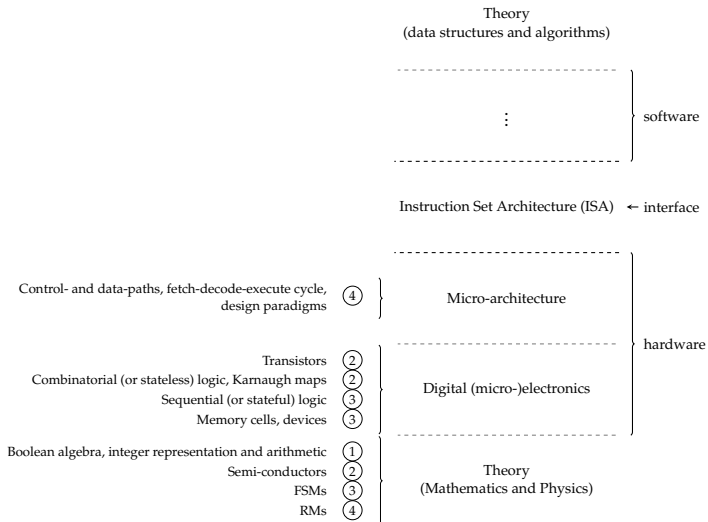
Unit summary (3)

High-level perspective



Unit summary (3)

High-level perspective



Conclusions

► Take away points:

1. ...

References