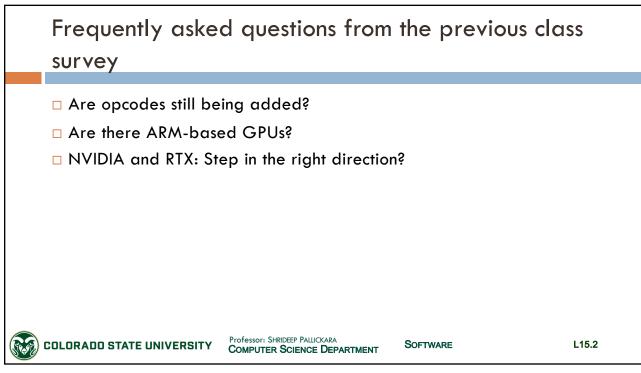
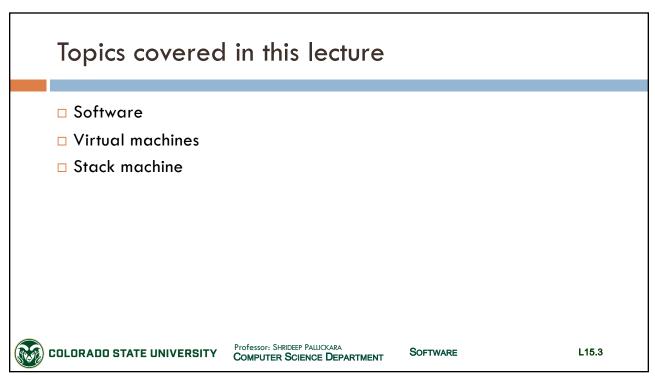
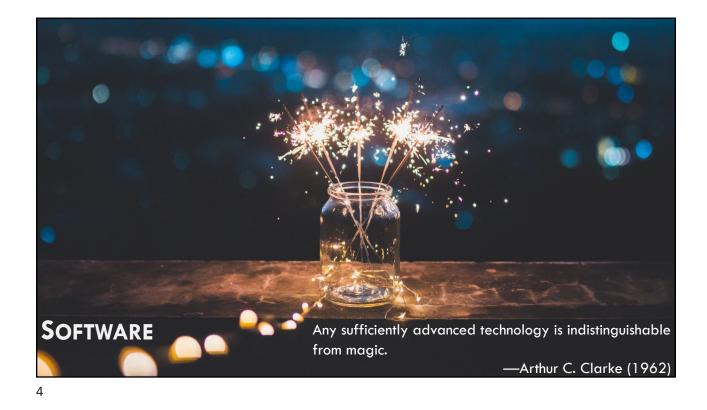
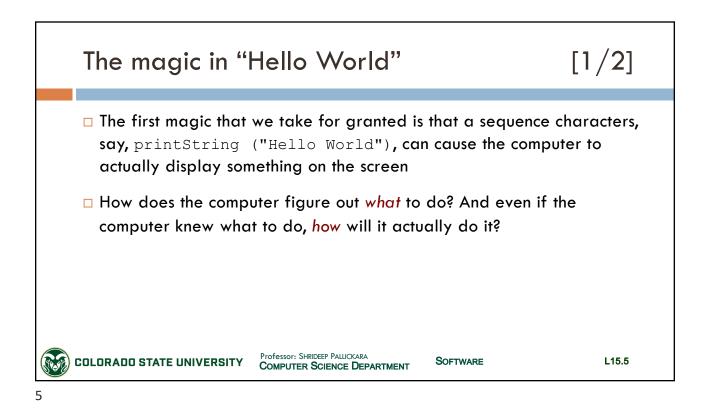
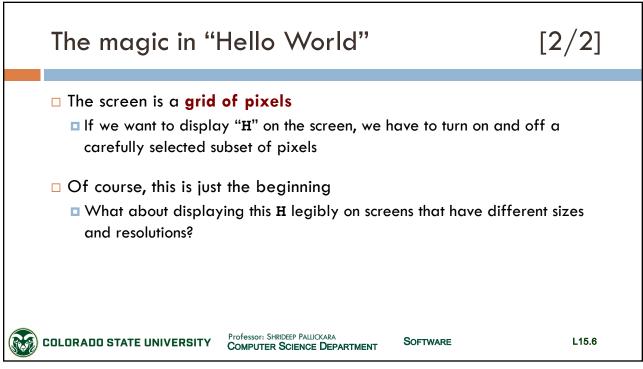
CS250: FOUNDATIONS OF CON [SOFTWARE]	MPUTER SYSTEMS
Write once, run anywhere? Compile thy code To an abstract, virtual machine The VM code	
Next translate the VM code To the machine language Of the target platform Viola a code written once Running wherever	SHRIDEEP PALLICKARA Computer Science Colorado State University
Without re-compiling COMPUTER SCIENCE DEPARTMENT	COLORADO STATE UNIVERSITY

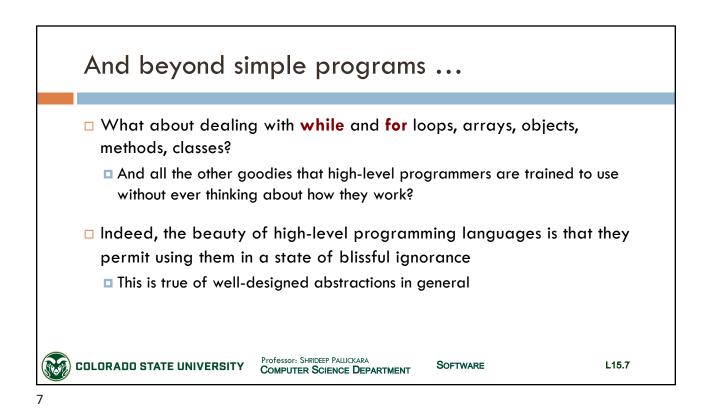


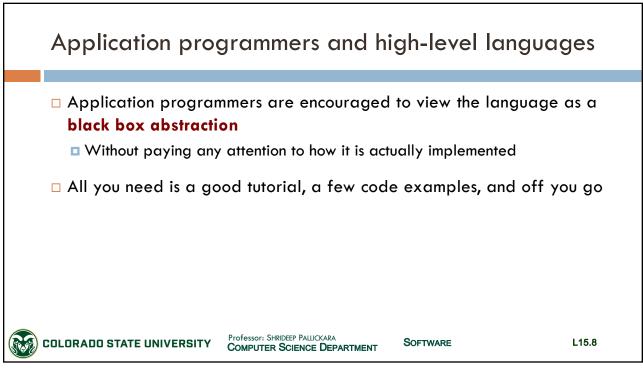


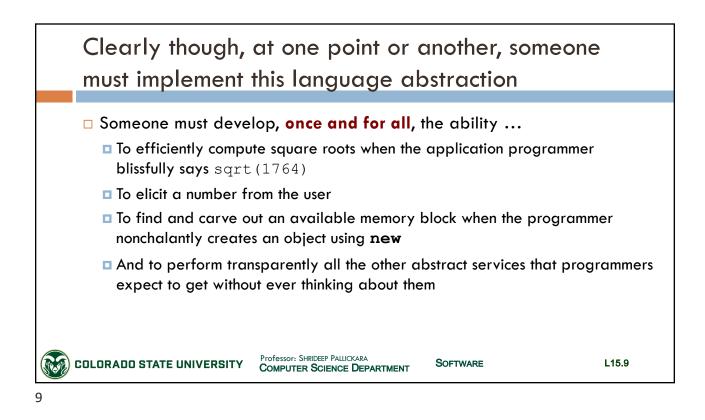


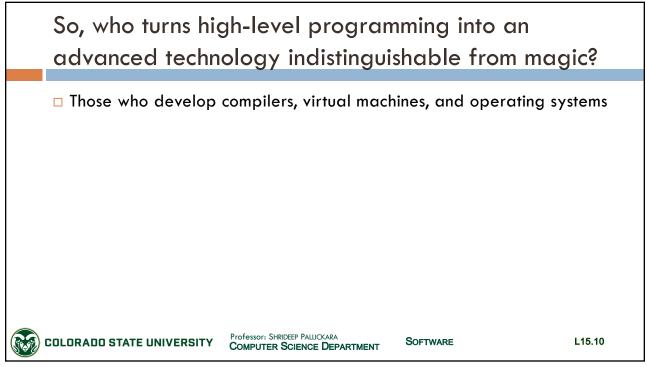






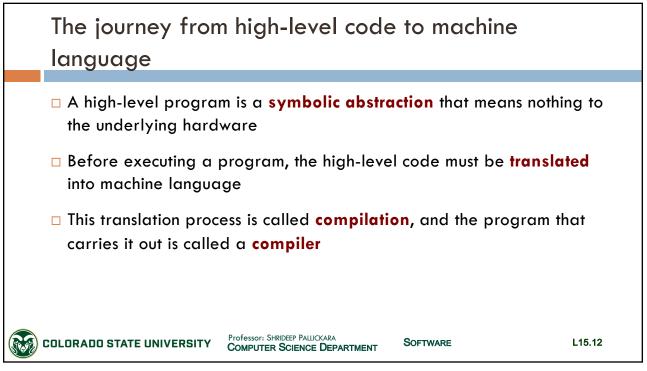


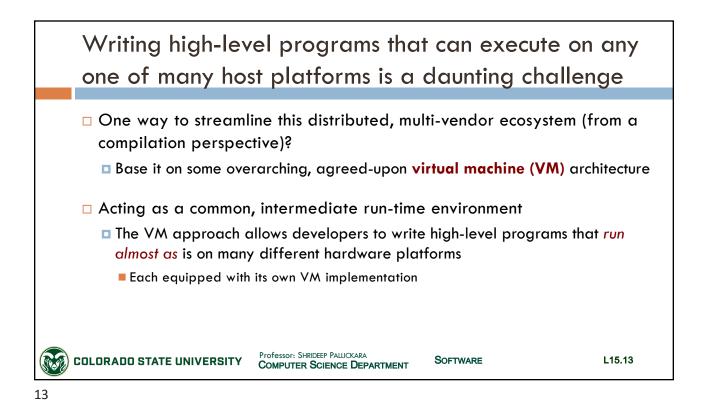


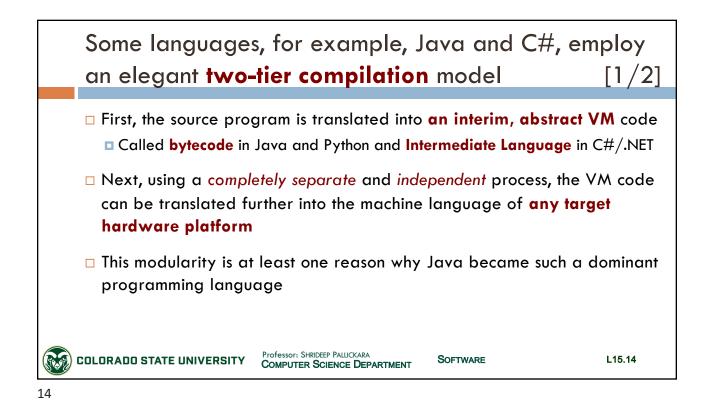


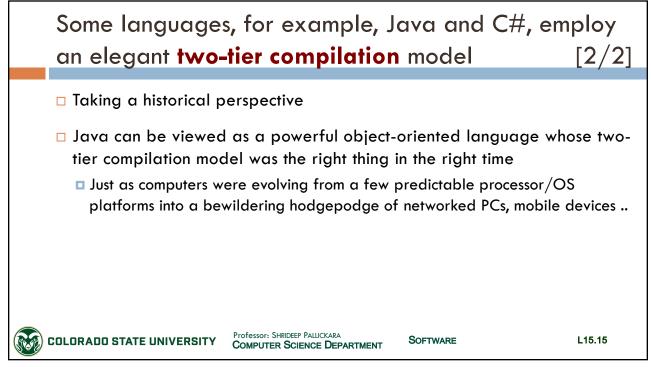


11

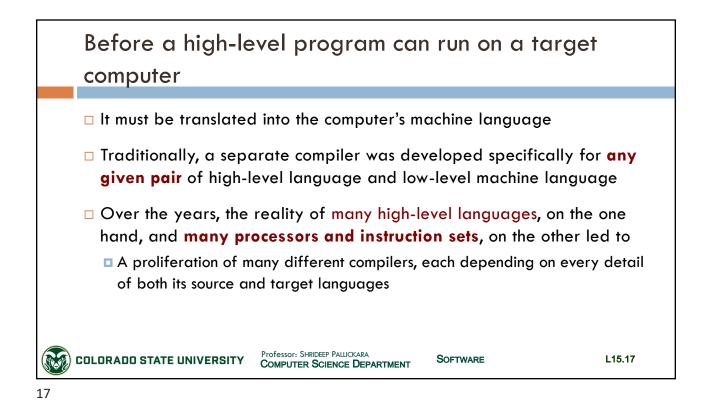


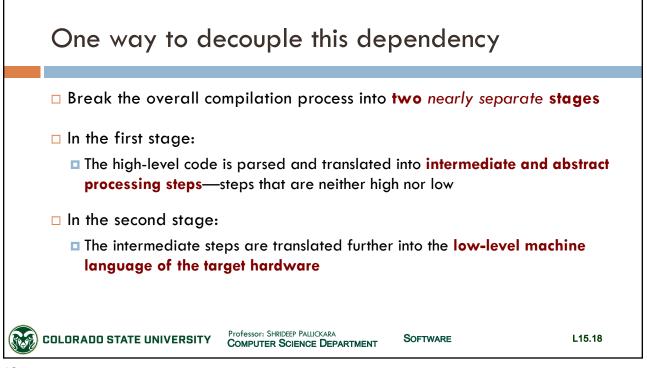


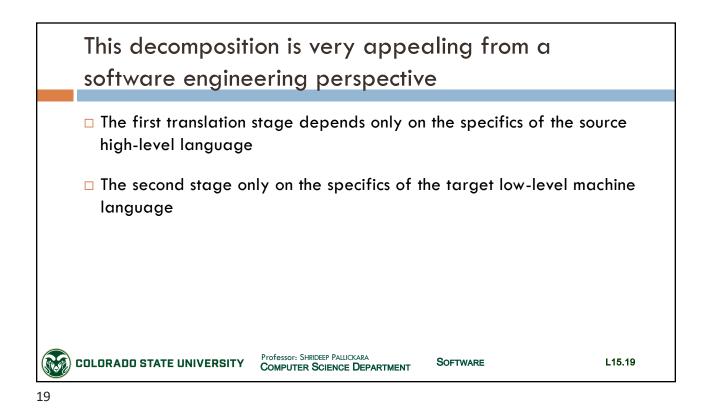


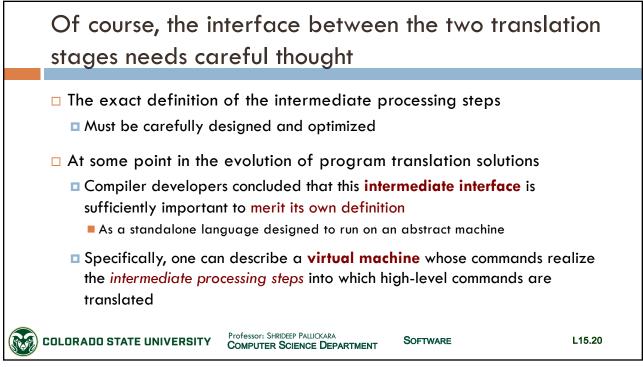


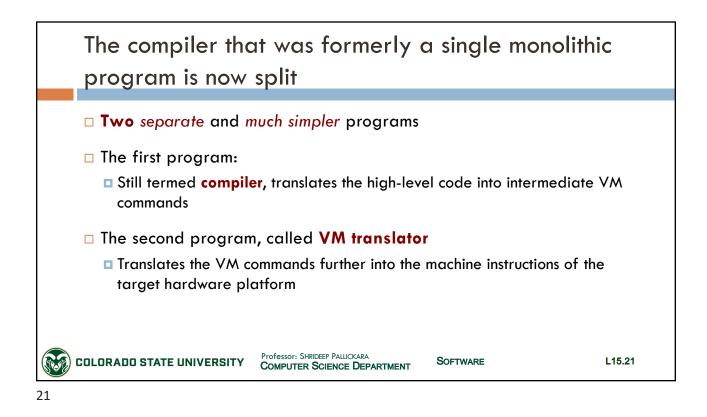


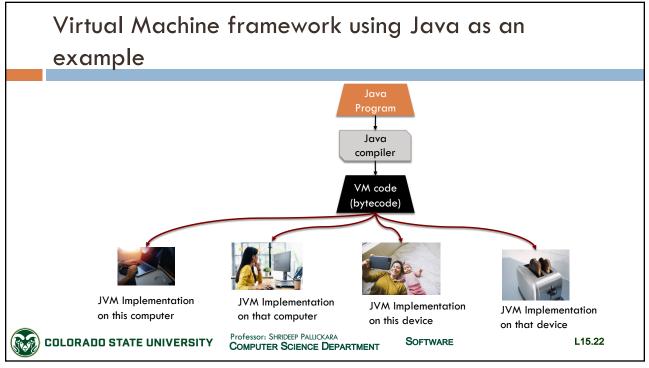


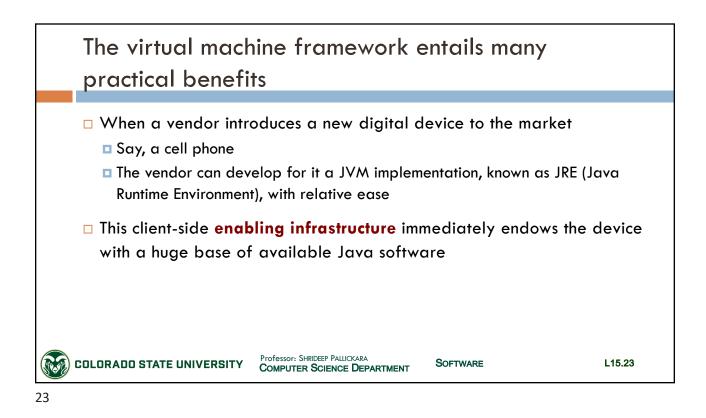


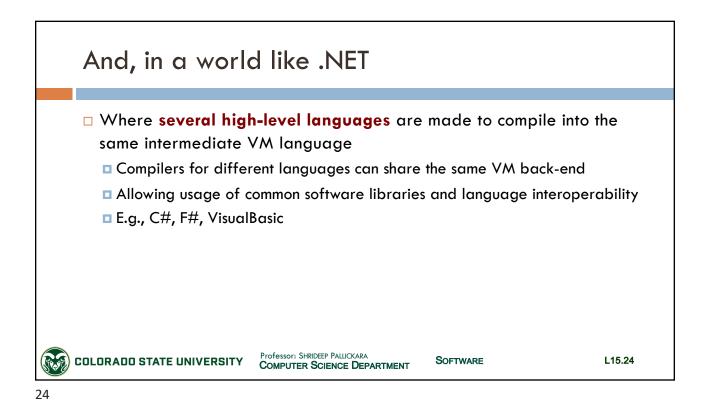


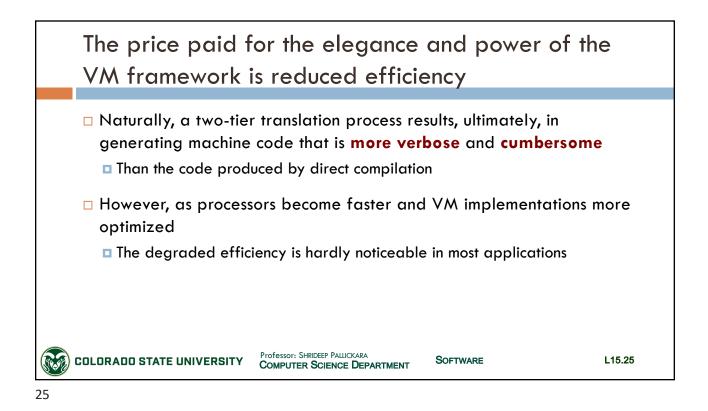


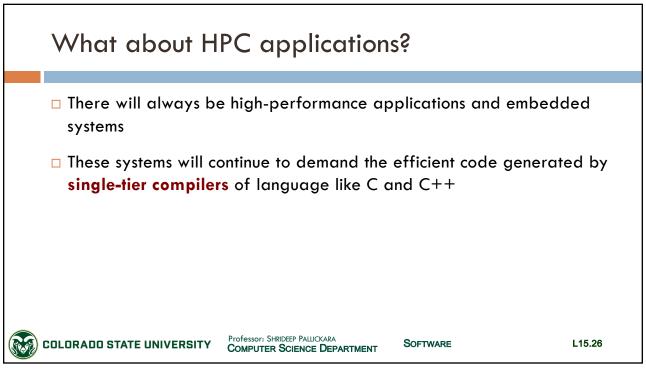


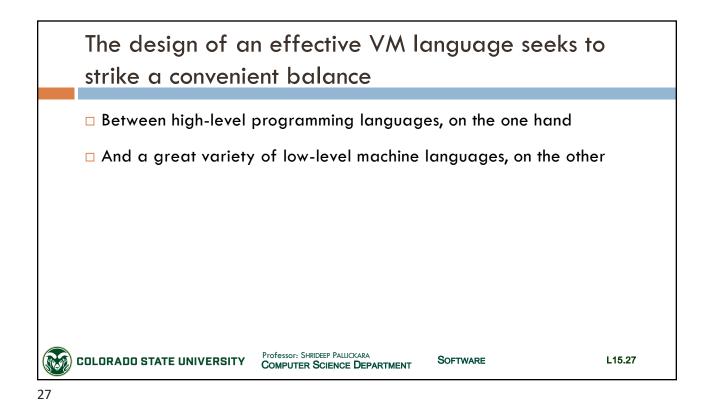


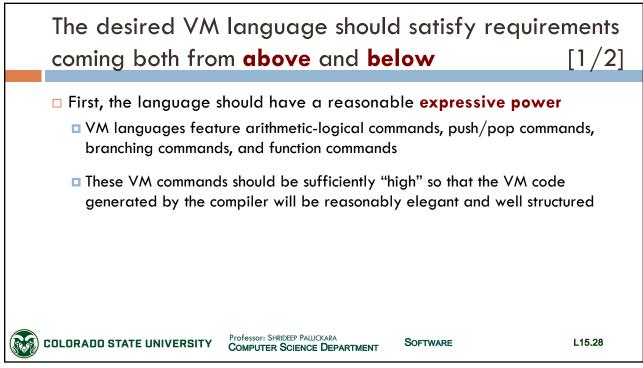


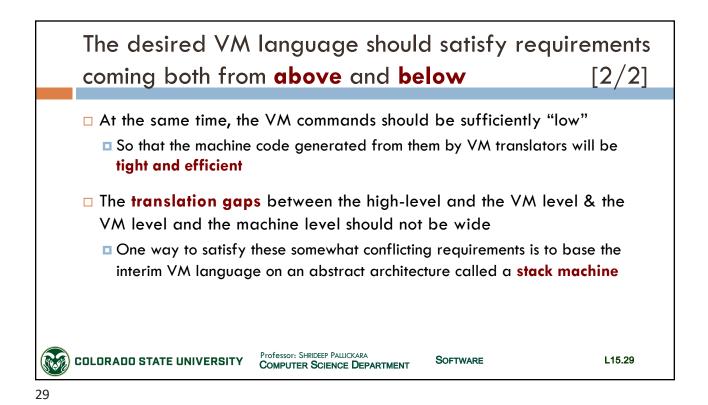


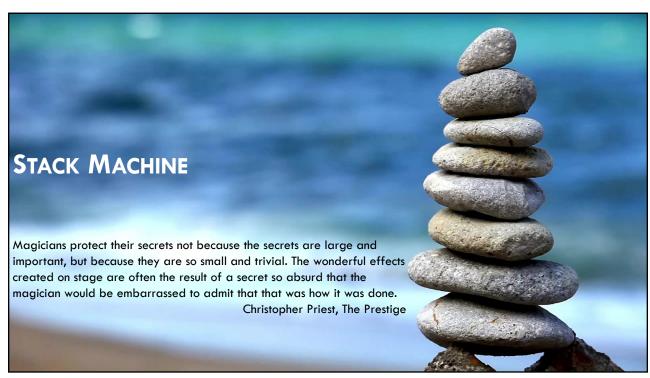


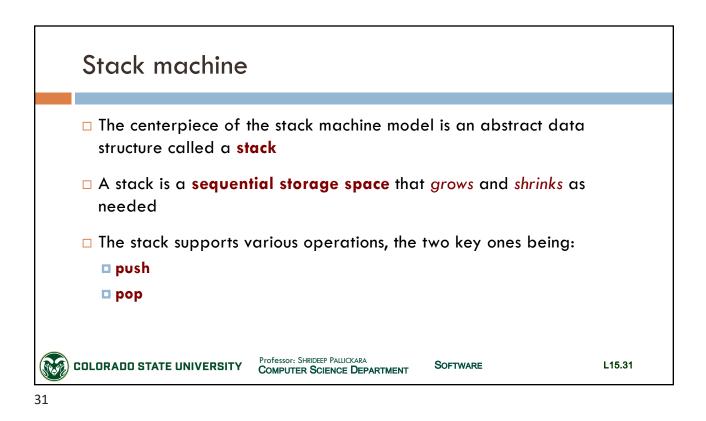


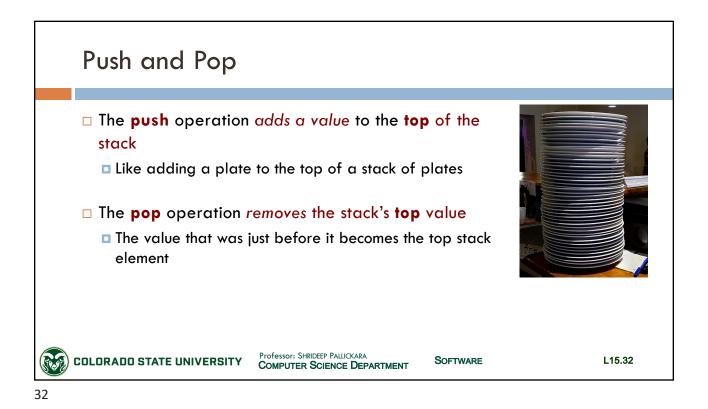


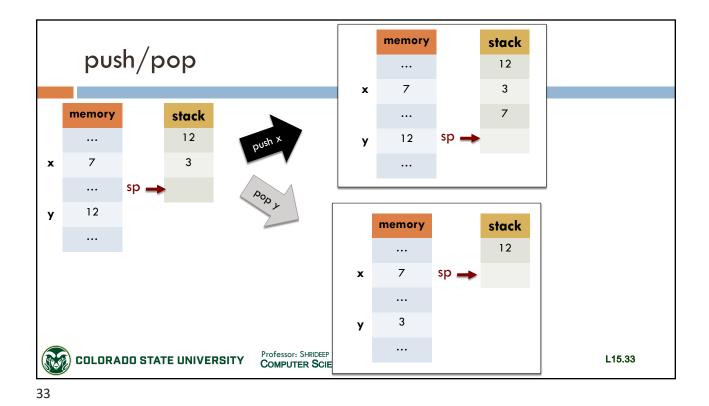


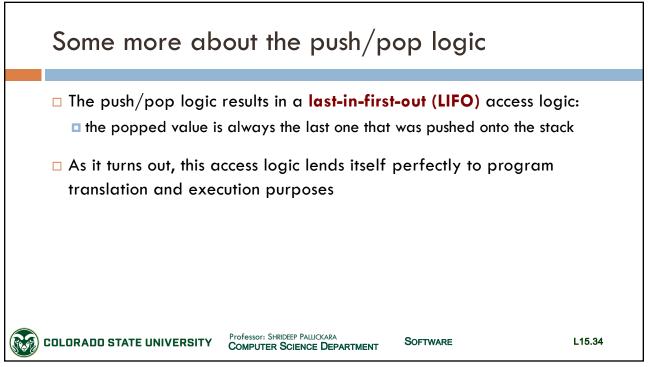


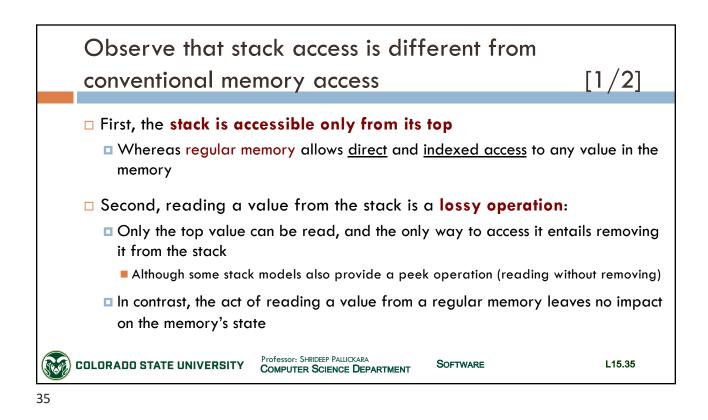


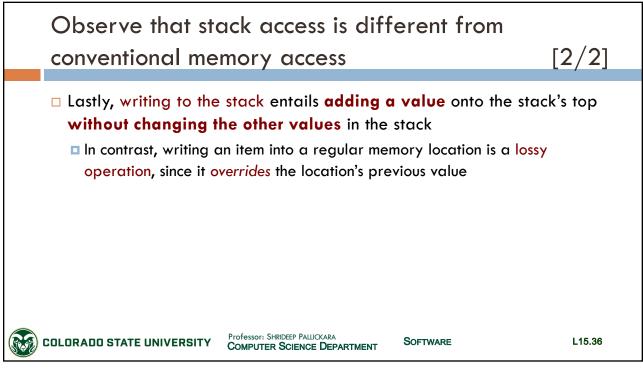


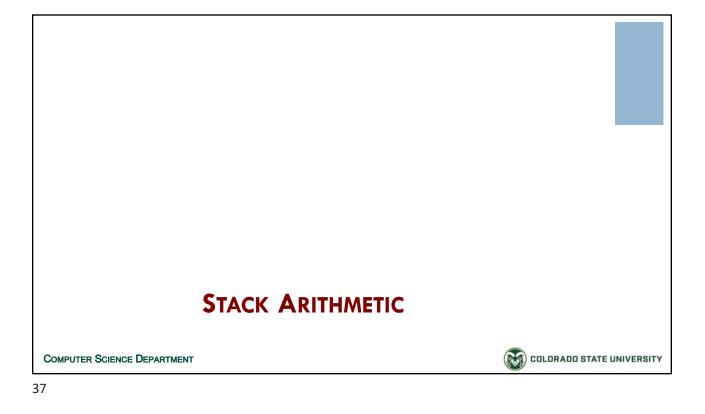


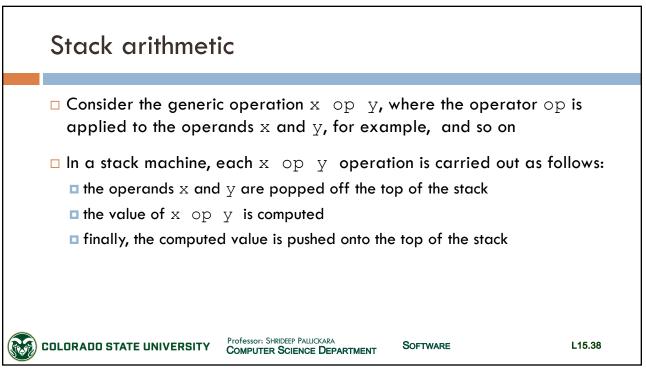


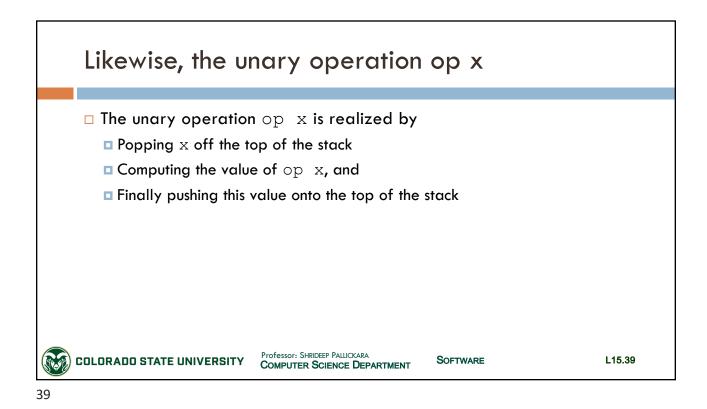


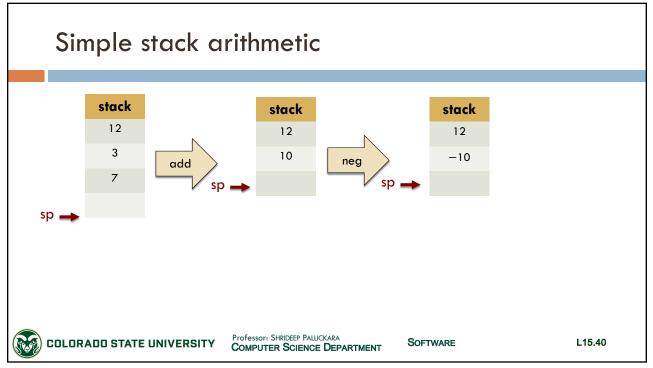


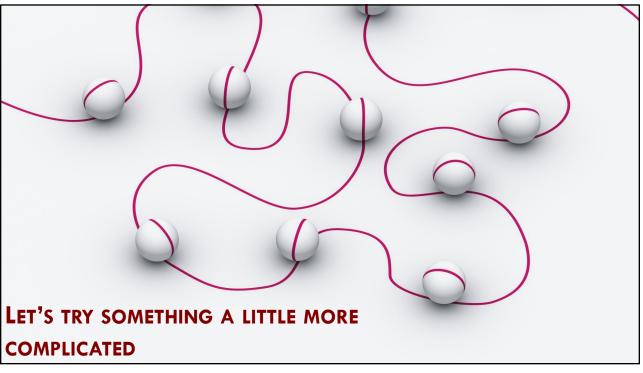




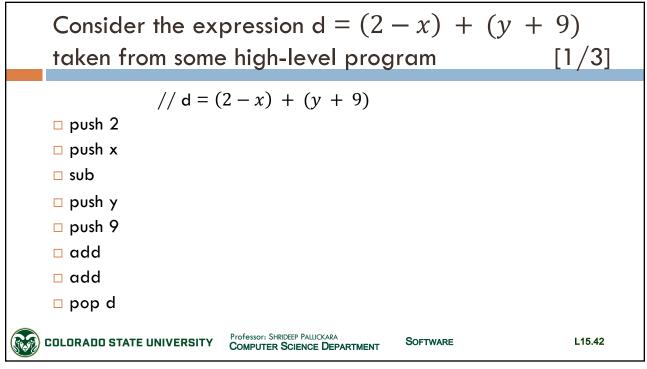


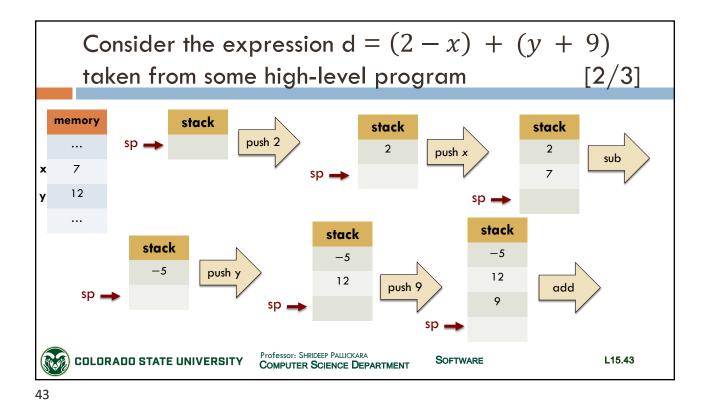


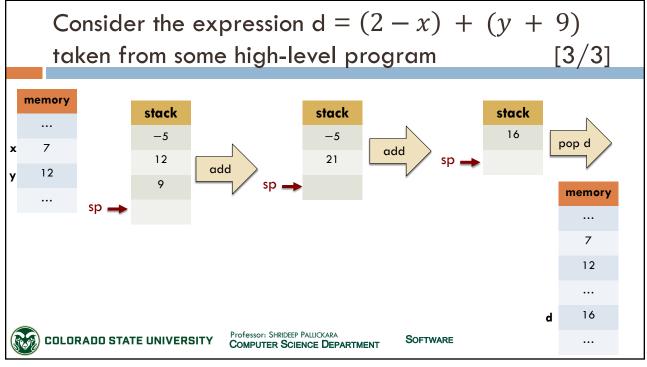


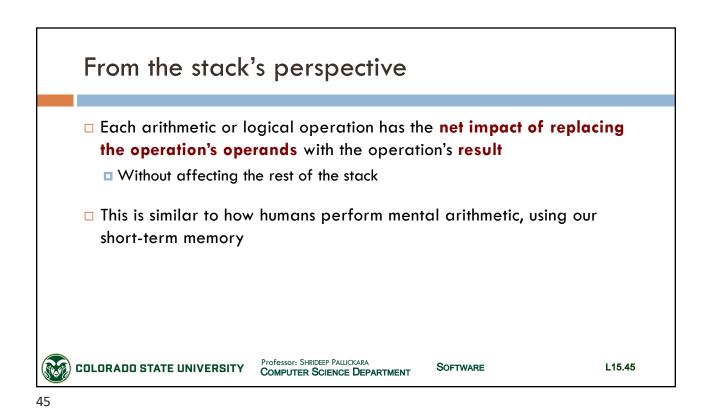


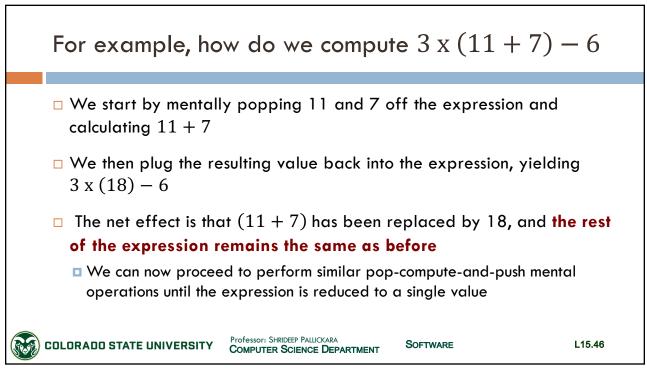
41

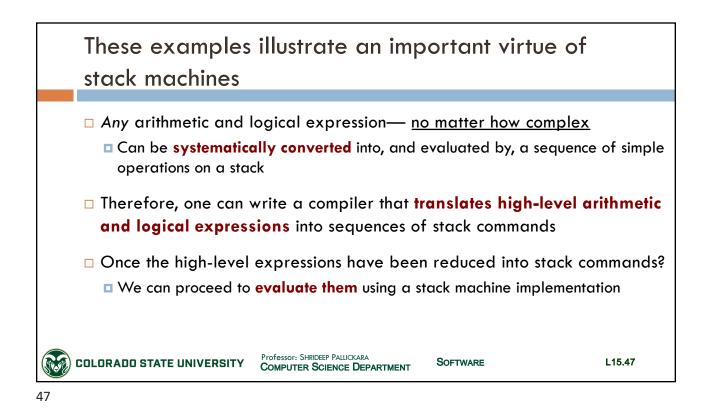




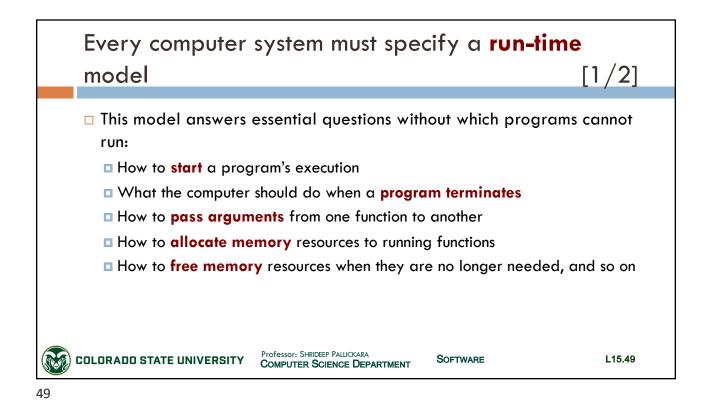


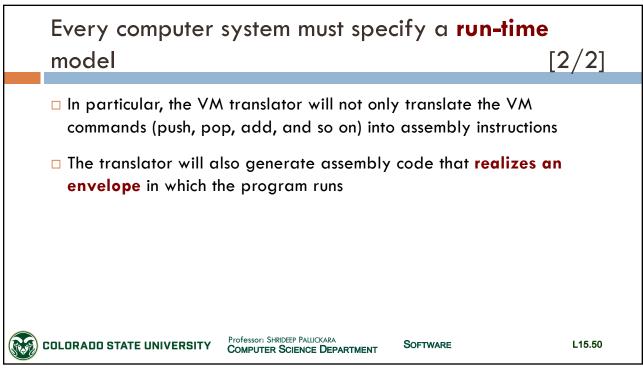






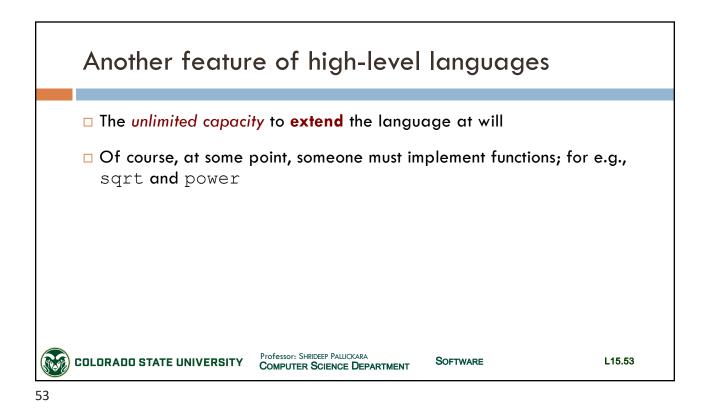


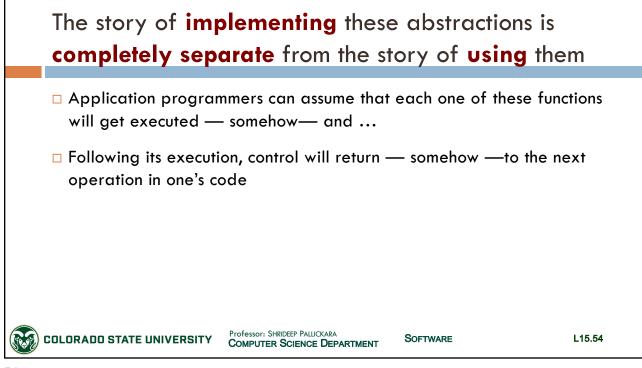






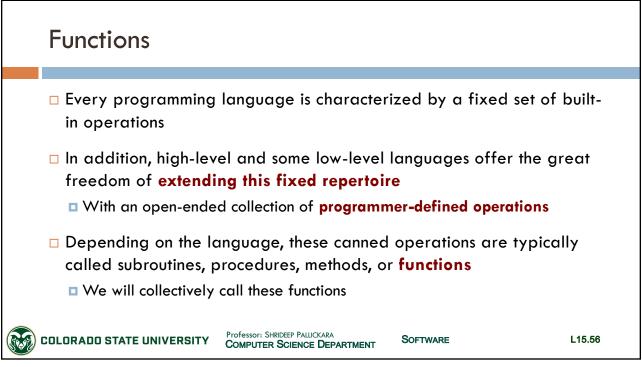
High-level languages allow writing programs in high-level terms• For example, an expression like $x = -b + \sqrt{b^2 - 4ac}$ • Can be written as x = -b + sqrt(power(b, 2) - 4 * a * c)• This is almost as descriptive as the real thing• Note the difference between primitive operations like + and - and functions like sqrt and power• The former are built into the basic syntax of the high-level language• The latter are extensions of the basic language• The latter are extensions of the basic language

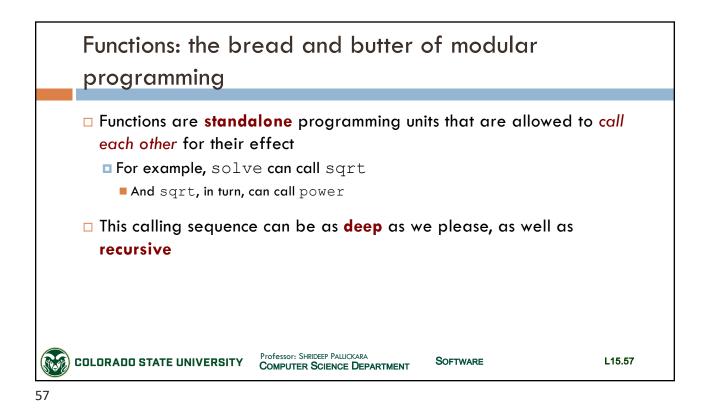


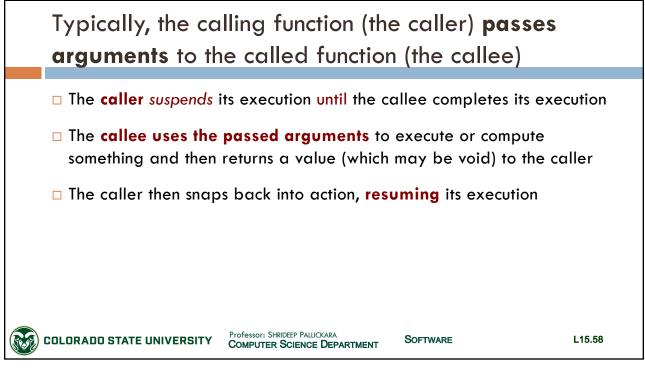


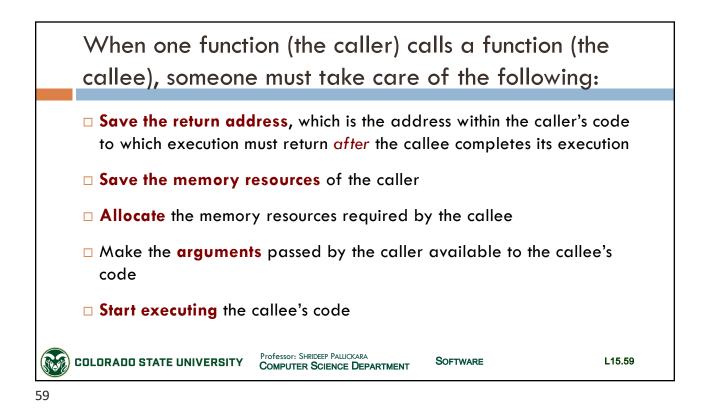


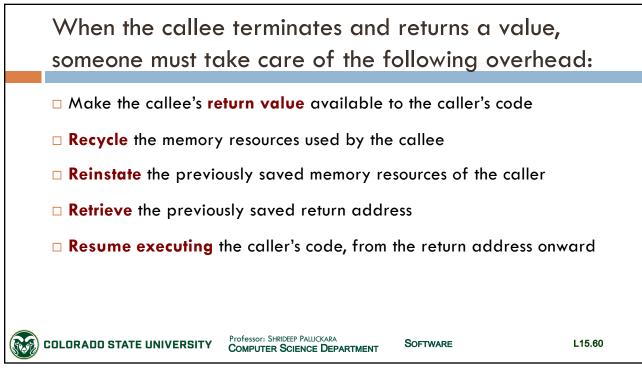
55

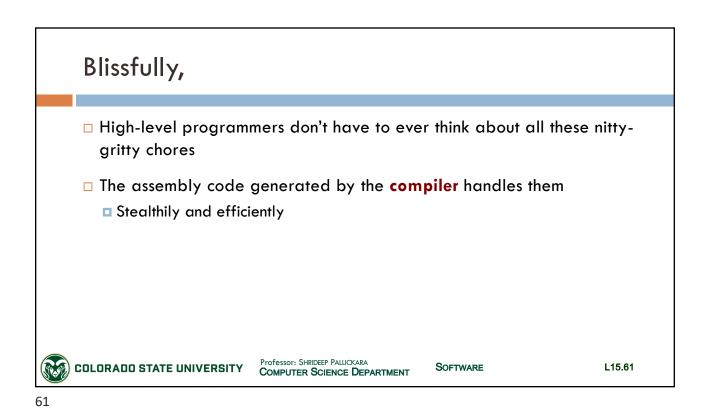


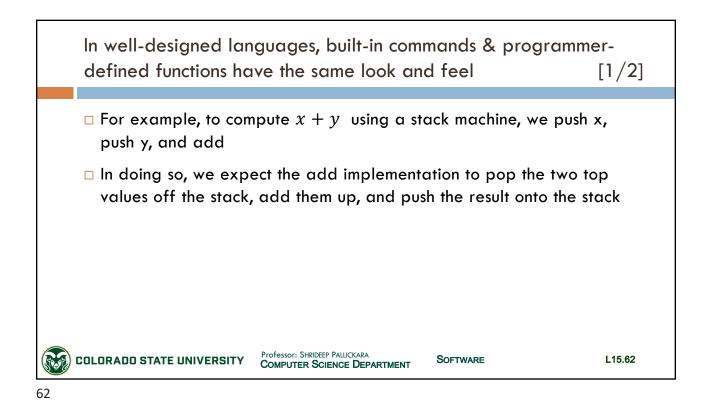


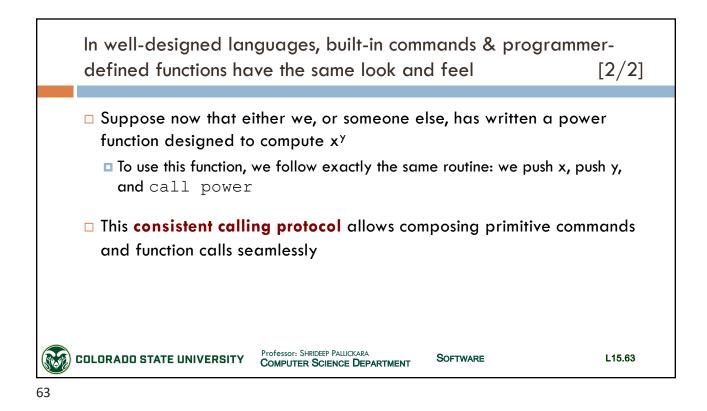


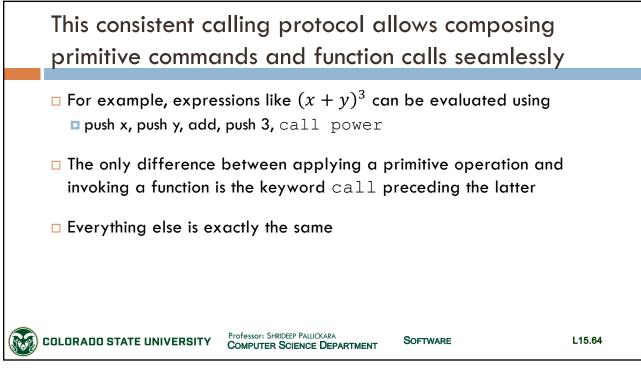


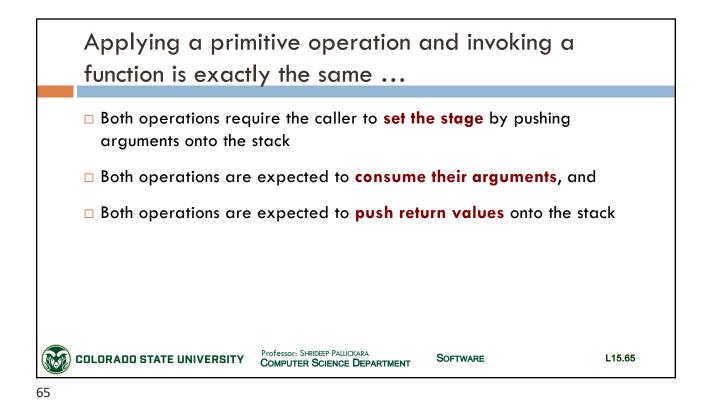












Computing the hypotenuse						
$\Box \sqrt{a^2 + b^2}$	Pus Pus	h 4 l hypot	Function mult(x,y) Return			
	Pus Pus Cal Pus Cal add	h x l mult h y h y l mult l sqrt	Function sqrt(num) Return			
COLORADO STATE UN		ofessor: Shrideep Pallickara DMPUTER SCIENCE DEPARTMENT	Software	L15.66		

