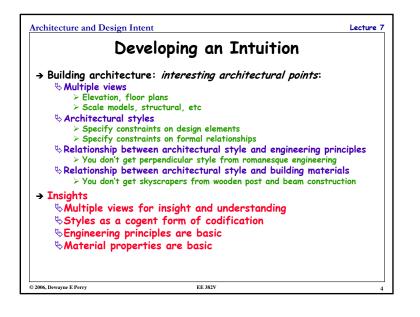
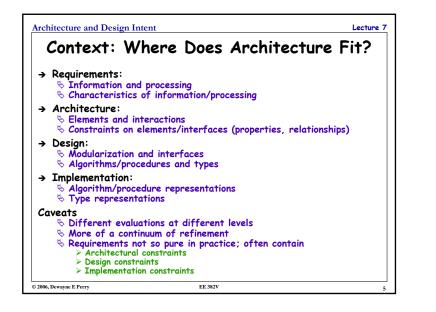
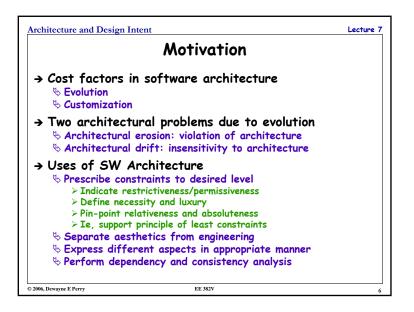
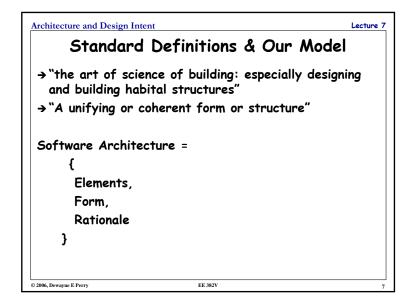


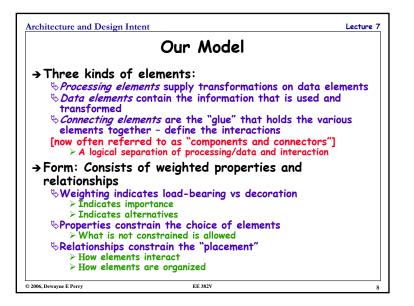
Architecture and Design Ir	itent	Lecture
Developing an Intuition		
→ Hardware Archite	ecture	
🗞 Multi-processor	, pipe-lined, RISC	
Sinteresting arch		
	all number of pieces	
> Scale: replice	ation of components	
🗞 BUT in software		
	arge number of components	
	replication but by addition of distinct pieces	
Similarities, but	fundamental differences	
→ Network Architec	ture	
🏷 Star, ring, man	hattan street networks	
Sinteresting arch		
> 2 components	: nodes and interconnections	
> Small number		
🗞 BUT in software		
> Can abstract		
> Large variety		
> Few named to		
♥Do talk of distr	ibuted/message-passing architectures	
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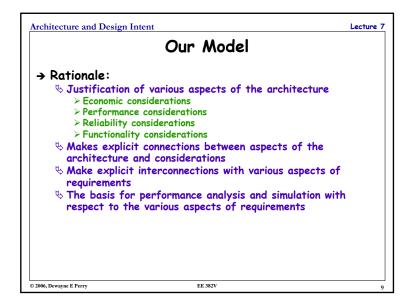


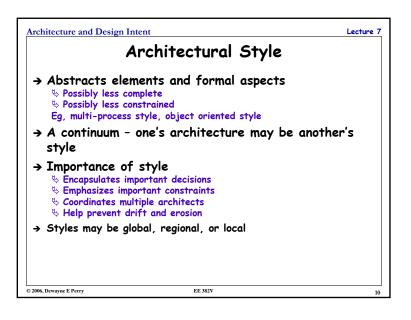


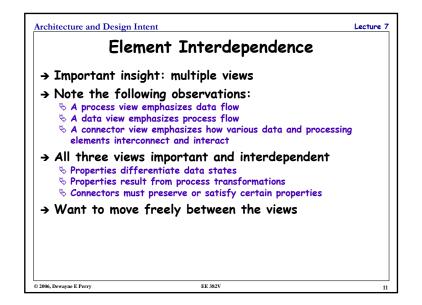


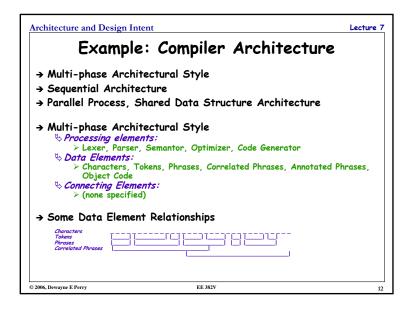


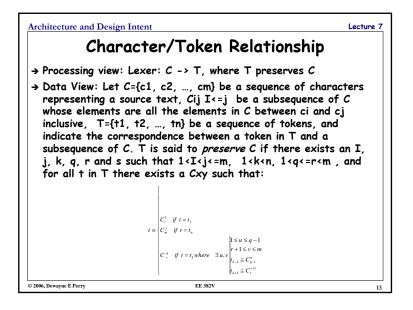


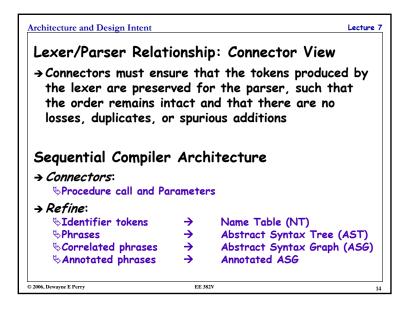


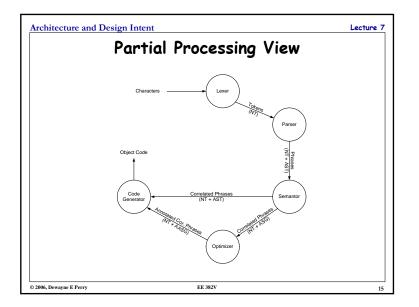


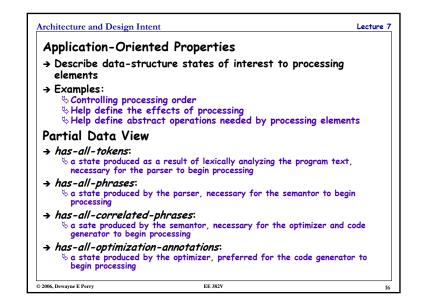


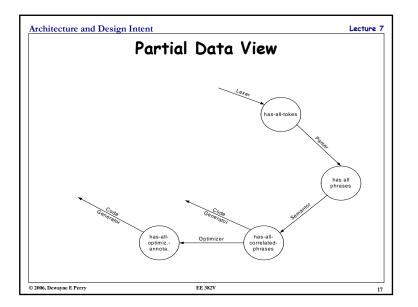


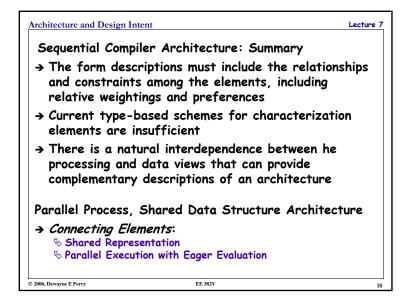


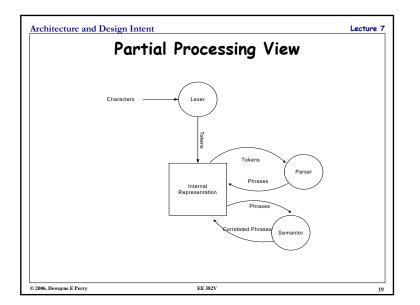




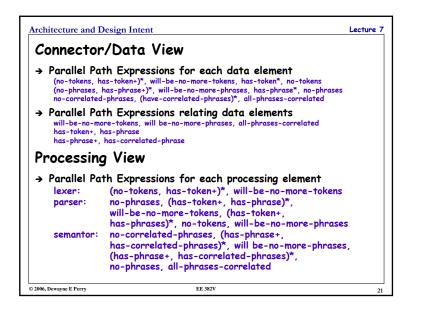


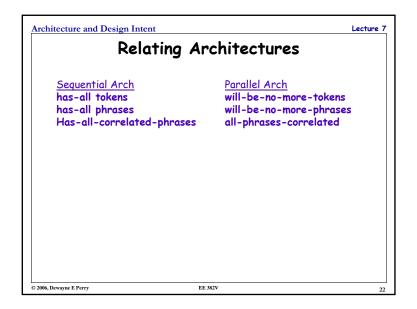






Architecture and Design	Intent		Lecture 7
Арр	lication-Oriented I	Properties	
→ >1 processing representation	elements affecting	state of	
→ Concurrent acc	cess to data struct	ure	
→ Need coordina no-tokens has-token will-be-no-more-tokens	tion and synchroniz no-phrases has-phrase will-be-no-more-phrases	<b>zation</b> no-correlated-phrases have-correlated-phrases all-phrases-correlated	
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Architecture and Design Intent	Lecture 7
Parallel Process, Shared Data S Compiler Architecture: Sum	
→ The processing elements are much the previous architecture, but with difference control" properties	
→ The form of this architecture is more of that of the previous one there are application-oriented properties and the require a richer notion to express them interrelationships	e more se properties
→ We still benefit for the processing/dat view interdependence, albeit with more	
→ Application-oriented properties are use similar architectures	ful in relating
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