

Architecture and I	Design Intent	Lecture 6
	Prototype Syntax	
→ system	:: <modspec> <impl></impl></modspec>	
→ modspec	<pre>:: modname <preddef> <typename></typename></preddef></pre>	
→ preddef	<pre>:: predname <predpar> [wff + primitive]</predpar></pre>	
→ predpar	:: type predparname	
→ opspec	<pre>:: opname <oppar> <pre: wff=""> <post: wff=""></post:></pre:></oppar></pre>	
→ oppar	:: modetype opparname	
→ impl	<pre>:: opname <oppar> <localdef> <opcall></opcall></localdef></oppar></pre>	
→ localdef	:: type varname	
→ opcall	<pre>:: op <oparg> <pre> <post> <obl> <known></known></obl></post></pre></oparg></pre>	
→ Linkedwff	:: wff <label></label>	
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 → Problem space: generate system compositions Not all syntactically correct compositions are semantically correct	Relate	ed - GenVoca	
 Model state of the design, not execution state primitive predicates pre, post, obl in terms of primitives use pattern matching and simple deduction Analysis constraints satisfied at a distance (non-adjacent) propagation rules for checking Rationale shallow consistency checking goes a long way granularity: Inscape - function; GenVoca - subsystem (fewer of them and fewer predicates) leverage of standardization - limits problems space 	→ Problem space: generate	system compositions rect compositions are semantically correc a specific constraints) to check automatic	t ally
 → Analysis Sconstraints satisfied at a distance (non-adjacent) Spropagation rules for checking → Rationale Sconsistency checking goes a long way Sgranularity: Inscape - function; GenVoca - subsystem (fewer of them and fewer predicates) Sleverage of standardization - limits problems space 	→ Model state of the desig	n, not execution state of primitives nd simple deduction	
 → Rationale Shallow consistency checking goes a long way Sgranularity: Inscape - function; GenVoca - subsystem (fewer of them and fewer predicates) Sleverage of standardization - limits problems space 	→ Analysis	a distance (non-adjacent) Necking	
	→ Rationale	cking goes a long way function; GenVoca - subsystem (fewer of ites) tion - limits problems space	

