Prolog / Proviz Cheat Sheet

Standard Elements

Name	Prolog	Proviz
Constant (atom)	member(<mark>bob</mark> ,)	element
Parameter (clause parameter)	route(Start, End) :- 	Route
"Don't Care" Variable	mother(diana, _)	mother Mother child
Premiss	, married(H, W),	H husband Married Wife W
Negation	not(member(,))	
Relationship (sharing a variable)	father(, <mark>X</mark>), married(<mark>X</mark> ,)	Father child wife Married
Junction (sharing a variable amongst three or more)	member(<mark>X</mark> ,) member(<mark>X</mark> ,) <u>X</u> >	element element left operand

Cheat Sheet - 1 -

Lists

Name	Prolog	Proviz
Concat	List = [Head Tail]	Head head tail Tail
Append	append(List1, List2, List12)	List1 left part list combined list List12
Length	length(List, N)	List list # size N
Member	member(Element, Set)	Element — element set Set

Comparisons

Name	Prolog	Proviz
Equal	A = B	A_operand1_operand2_B
Unequal	A \= B	A_operand1 operand2 B
Greater	A > B	A_left operand_B_right operand_B
Greater or Equal	A >= B	A_left operand_B
Smaller	A < B	A_left operand_B
Smaller or Equal	A =< B	A_left operand_B_right operand_B

Cheat Sheet - 2 -

Arithmetic

Name	Prolog	Proviz
Plus	S is A + B	A addend1 sum S
Minus	D is A - B	A minuend subtrahend B difference D
Multiply	P is A * B	A factor1 Factor2 B product P
Divide	Q is A / B	A dividend divisor B quotient Q

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