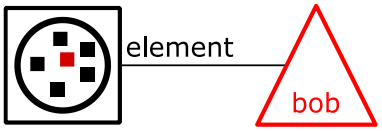
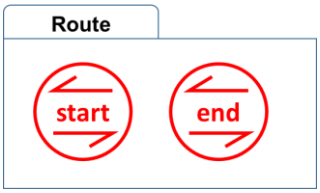
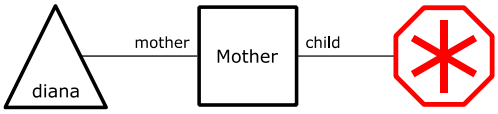
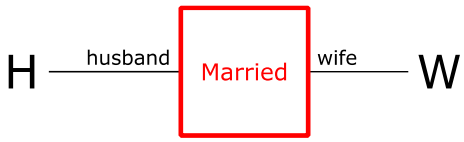
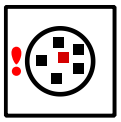
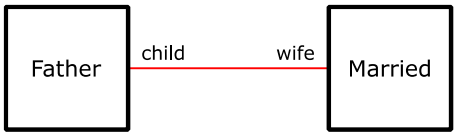
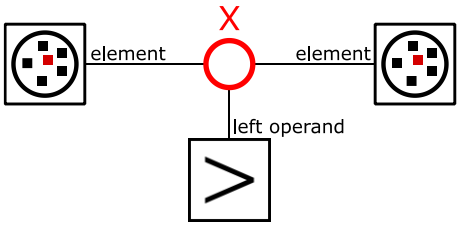
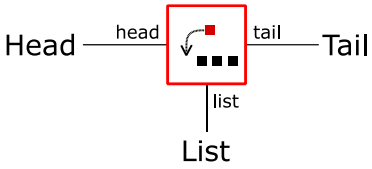
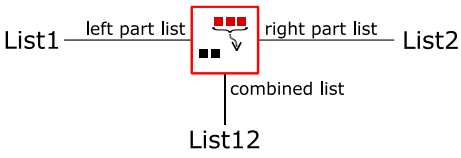
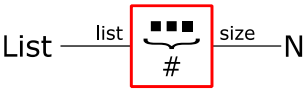
Prolog / Proviz

Cheat Sheet

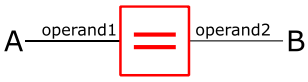
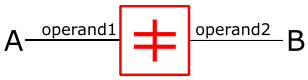
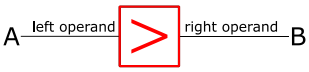
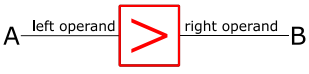
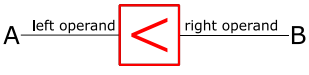
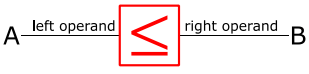
Standard Elements

Name	Prolog	Proviz
Constant (atom)	member(bob, …)	
Parameter (clause parameter)	route(Start, End) :- …	
"Don't Care" Variable	mother(diana, _)	
Premiss	…, married(H, W), …	
Negation	not(member(…, …))	
Relationship (sharing a variable)	father(…,X), married(X, …)	
Junction (sharing a variable amongst three or more)	member(X, …) member(X, …) X > …	

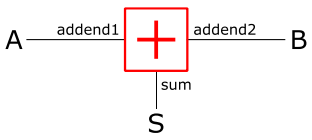
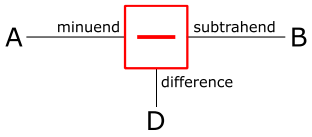
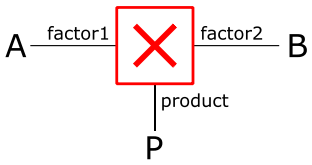
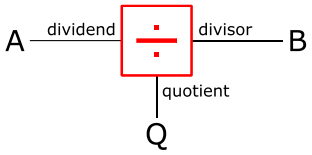
Lists

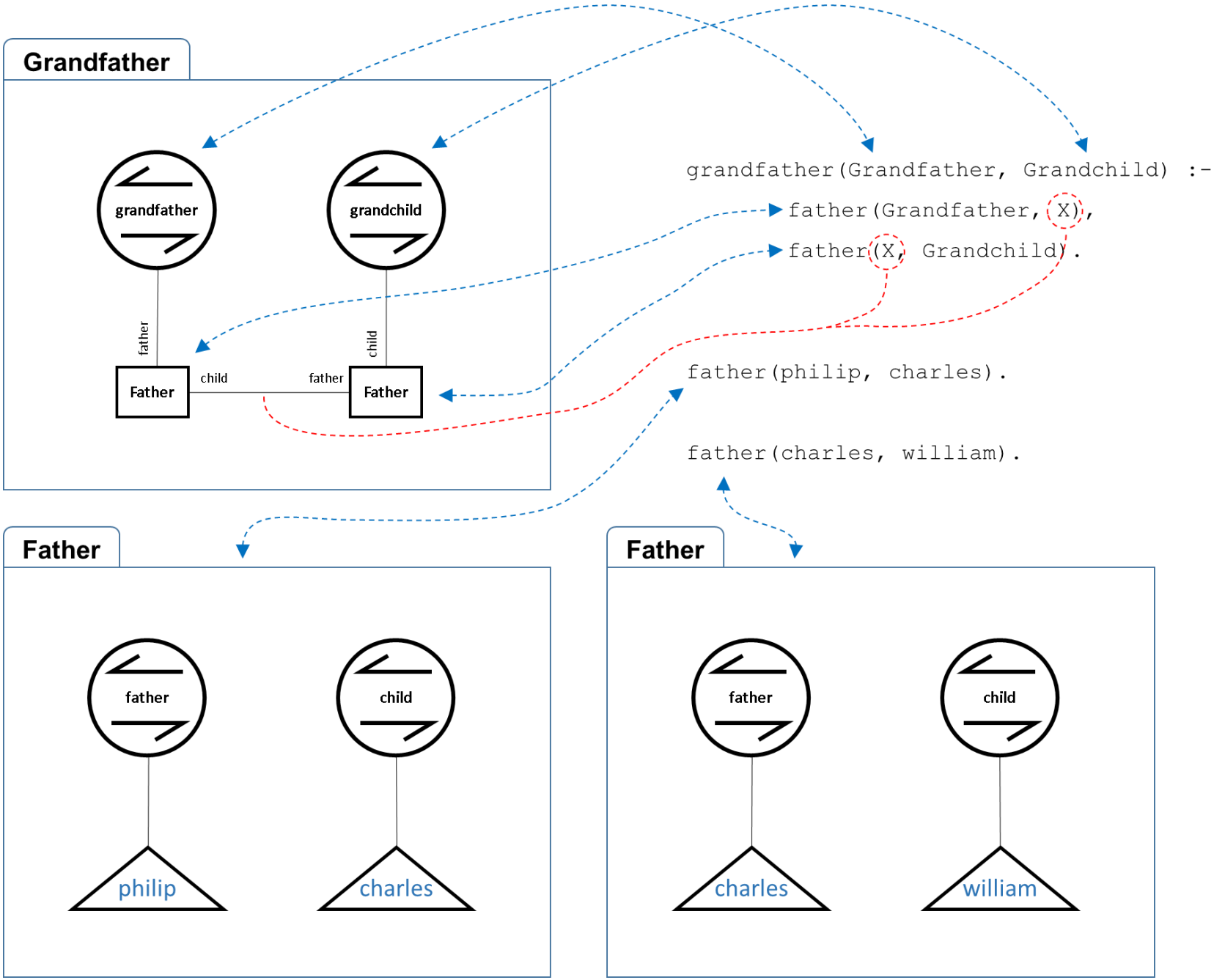
Name	Prolog	Proviz
Concat	List = [Head | Tail]	
Append	append(List1, List2, List12)	
Length	length(List, N)	
Member	member(Element, Set)	

Comparisons

Name	Prolog	Proviz
Equal	A = B	
Unequal	A \= B	
Greater	A > B	
Greater or Equal	A >= B	
Smaller	A < B	
Smaller or Equal	A =< B	

Arithmetic

Name	Prolog	Proviz
Plus	S is A + B	
Minus	D is A - B	
Multiply	P is A * B	
Divide	Q is A / B	


Grandfather
grandfather
grandchild
father
child
Father
child
father
Father
grandfather(Grandfather, Grandchild) :-
father(Grandfather, X),
father(X, Grandchild).
father(philip, charles).
father(charles, william).
Father
father
child
philip
charles
Father
father
child
charles
william