

demo1.pl

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Contents

1	Moose1	2
2	Header	2
2.1	Loads */	2
3	Body */	2

1 Moose1

Sample MOOSE file.

2 Header

2.1 Loads */

:- [moose]. /*

3 Body */

```
:- dynamic p/6,f/6, r/5,effect/4, impact/4.
    @aka(A,B,C) :- @xid(A) rand @string(B) rand &sourceId(C). @cost(A) :- rin(A,[0,1,2,3,4]).
    @day(Day,Mn,_) :- rin(Mn,[4,6,9,11]) rand rin(0,30,Day). @day(Day,Mn,_) :- rin(Mn,[1,3,5,7,8,10,12])
    rand rin(0,31,Day). % leap years need more work. one day. @day(Day,2,Yr) :- @year(Yr), 0
    is Yr mod 4, rin(0,29,Day). @day(Day,2,Yr) :- @year(Yr), N is Yr mod 4, N > 0, rin(0,28,Day).
    @dec10(C) :- rin(C,[0.05,0.1,0.2,0.3,0.4,0.5, 0.6,0.7,0.8,0.9,0.99,1.0]). @effect(A,B,C,D) :- &fId(A),
    &pId(B), &dec10(C), &sourceId(D). @f(A,B,C,D,E,L) :- @gen(A,B,C,D,E) rand fId // L. @fId(f(A))
    :- @posint(A), f(A,_,_,_,_,_). @gen(A,B,C,D,E) :- @posint(A), @strength(B), @probaility(C),
    @cost(D), &sourceId(E). @hour(A) :- rin(0,23,A). @impact(A,B,C,D) :- &fId(A), &rId(B),
    &sourceId(D), @dec10(C). @likelihood(X) :- @dec10(X). @minute(A) :- rin(0,59,A). @p(A,B,C,D,E,L)
    :- @gen(A,B,C,D,E) rand pId // L. @pId(p(A)) :- @posint(A), p(A,_,_,_,_,_). @posint(A) :-
    rin(1,65535,A). @probability(X) :- rin(0,100,P), X is P/100. @r(A,B,C,D,E) :- @gen(A,B,C,D,E).
    @rId(r(A)) :- @posint(A), r(A,_,_,_,_,_). @second(X) :- rin(0,59,X). @sourceId(X) :- source(X,_,_).
    @source(A,B,when(C,D,E,F,G,H)) :- @sym(A) rand @sym(B) rand @when(C,D,E,F,G,H). @string(A)
    :- rstring(string,A). @strength(X) :- rin(1,10,X). @sym(A) :- rsym(x,A). @uid(X) :- rsym(x,X).
    @when(A,B,C,D,E,F) :- @year(A), (@day(C,B,A) rand @hour(D) rand @minute(E) rand @sec-
    ond(F) ). @xid(X) :- @pId(X) ror @fId(X) ror @rId(X) ror @uid(X). @year(X) :- X= 2000 ror
    rin(1974,1999,X) ror rin(2001,2050,X).
```