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1 JANE

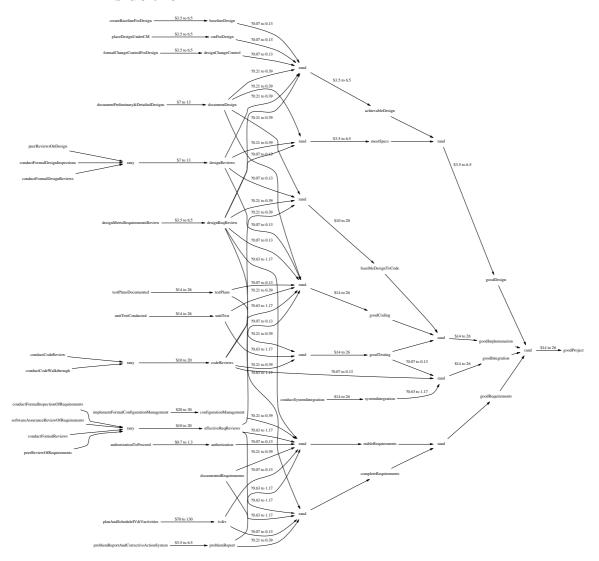
1.1 Domain Rules

```
jim says cost=100.
'iv&v' if 'planAndScheduleIV&Vactivities'.
jim says cost=0.
stableRequirements if authorization @0.1
                       rand effectiveReqReviews @0.9
                       rand problemReport @0.9
                      rand configurationManagement@0.3
                       rand 'iv&v'@0.1
                       rand documentedRequirements @0.3
                       rand designReqReview @0.9.
jim says cost=0.
completeRequirements if effectiveReqReviews @0.9
                          rand 'iv&v'@0.1
                          rand documentedRequirements @0.9
                          rand problemReport @ 0.3
                          rand designReqReview @0.9.
{\tt goodRequirements}\ {\tt if}\ {\tt stableRequirements}
                    rand completeRequirements.
jim says cost = 5.
designReqReview if designMeetsRequirementsReview.
. . .
```

1.2 Combination Rules

operator		X_{cost}	$X_{chances}$
X =	$or(Y) \\ ror(Y)$	first(Y).cost	first(Y).chances
X =	$and(Y) \\ rand(Y)$	$\sum_{i=1}^{ Y } cost(Y_i)$	$igg _{i=1}^{ Y } chances(Y_i)$
X =	$egin{array}{c} rors(Y) \ ors(Y) \ rany(Y) \ any(Y) \end{array}$	$\sum_{i=1}^{Z \subseteq Y} \sum_{i=1}^{ Z } cost(Z_i)$	$Z \subseteq Y$ $\sum_{i=1}^{ Z } chances(Z_i)$
X =	no(Y)	$\sum (allY.cost)$	$1 - \sum (allY.chances)$

2 Inside the KB

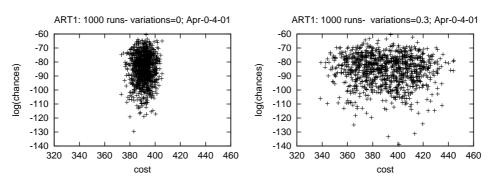


Each edge has cost 0 and chances 1 unless otherwise marked. Marks: \$= cost; ?= chances;

3 CHEETAH

3.1 One run

3.2 1000 runs



name	cost	log(Chances)	N
hihi	> 392.034	> -86.3225	285
lohi	< 392.034	> -86.3225	200
hilo	> 392.034	< -86.3225	297
lolo	< 392.034	< -86.3225	217

score : 1
what if : no change?
hihi : 29% ~~~~~
lohi : 30% ~~~~~
hilo : 20% ~~~~
lolo : 22% ~~~~

4 TARZAN

4.1 Business Decisions, Changes=2

```
score : 1.20755
what if : [peerReviewOfRequirements=2, conductCodeWalkthrough=1]?
hihi : 20% ~~~~~
lohi : 22% ~~~~~
hilo : 29% ~~~~~~

score : 1.18714
what if : [conductFormalReviews=2, conductCodeWalkthrough=1]?
hihi : 24% ~~~~~
lohi : 21% ~~~~~
hilo : 24% ~~~~~

score : 1.16573
what if : [peerReviewOfRequirements=2, conductFormalReviews=2]?
hihi : 21% ~~~~~
lohi : 25% ~~~~~
lohi : 25% ~~~~~
hilo : 26% ~~~~~
```

4.2 Cost Decisions, Changes=1

4.3 Cost Decisions, Changes=2