Make Your Team's Domain Language Truly Ubiquitous with Concept Maps



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Agenda

- Concept Maps 101
- Concept Maps in a Software Domain
- Concept Maps in a Software Team

Concept Maps 101

a simple example

let's connect...

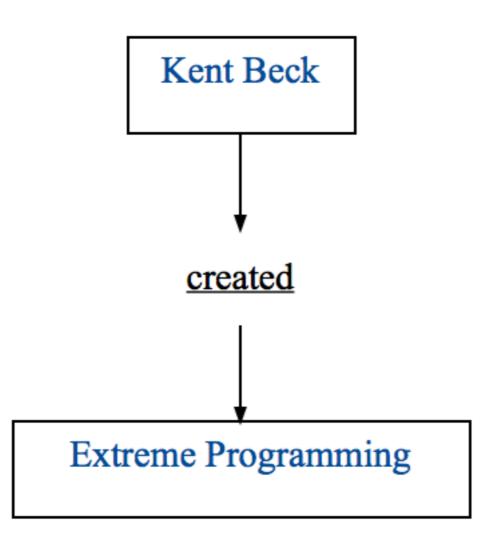
Kent Beck

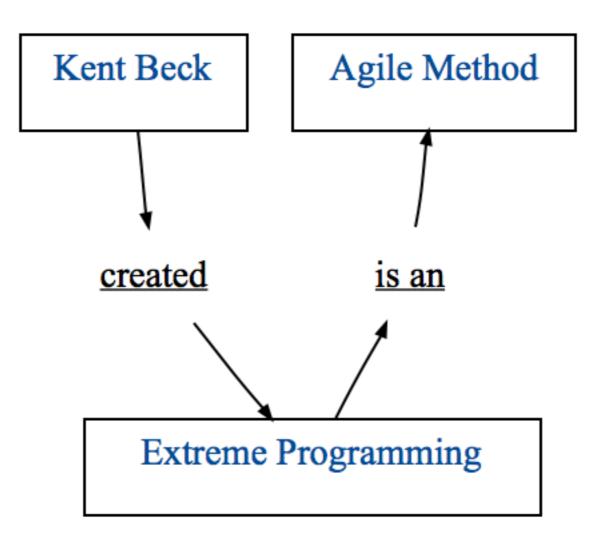
....and

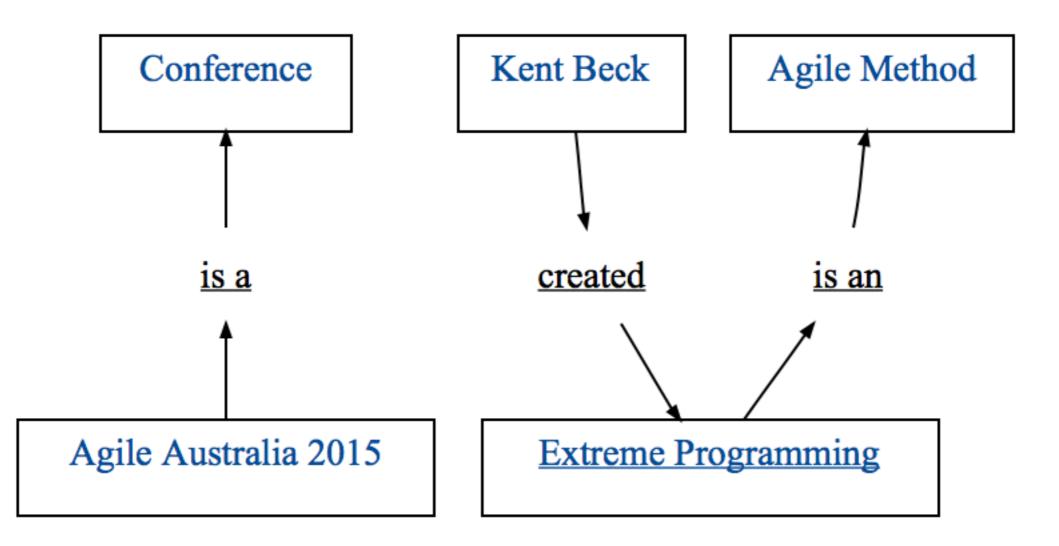
Paris Hilton

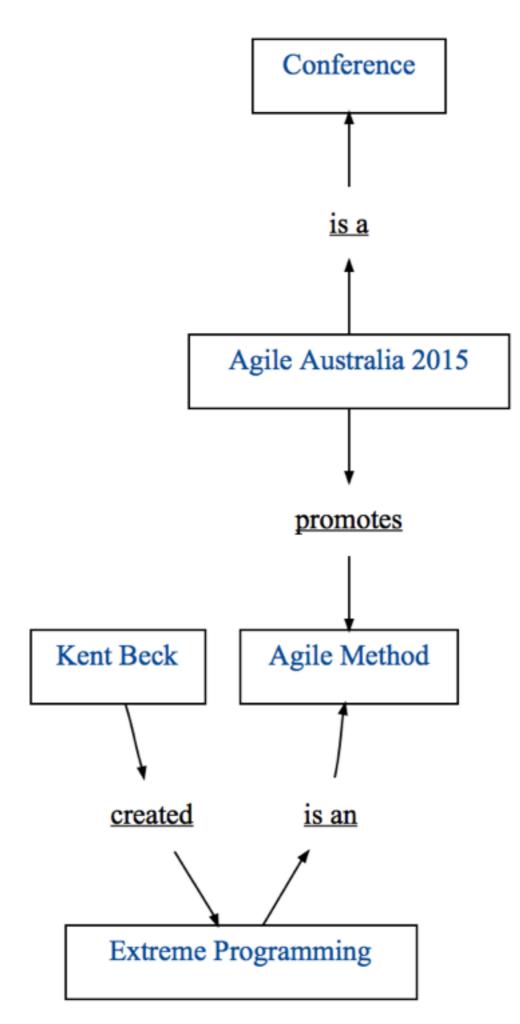
....in your first

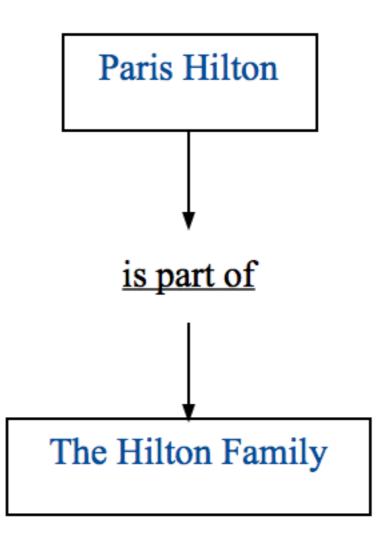
Concept Map

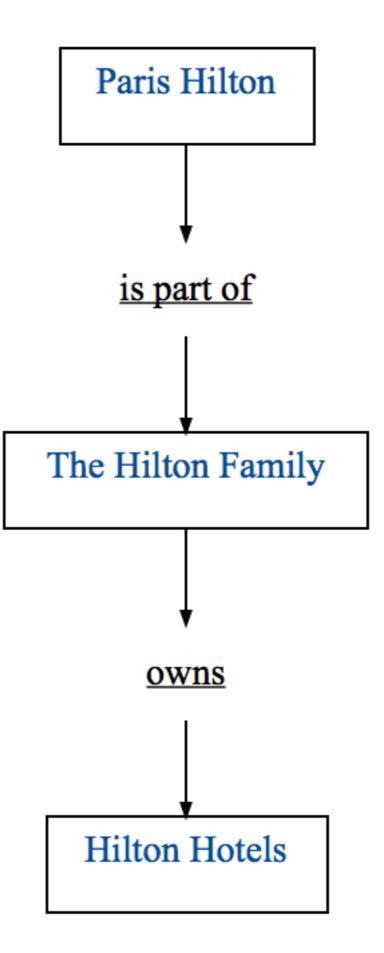


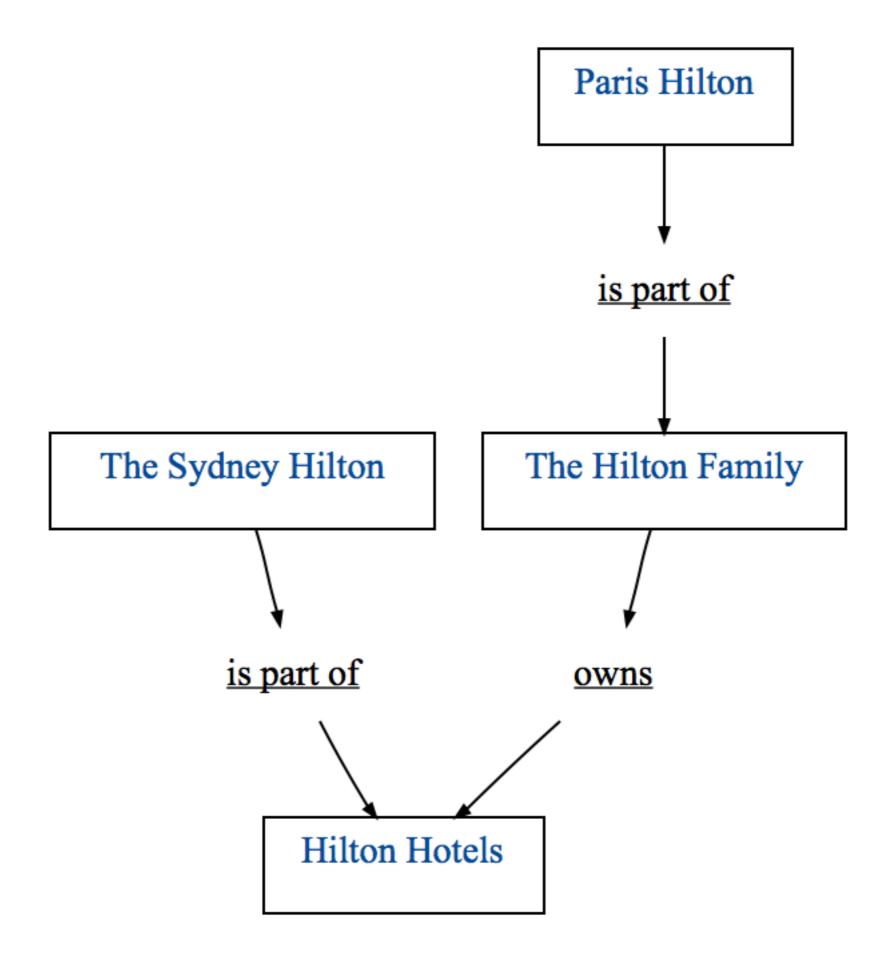


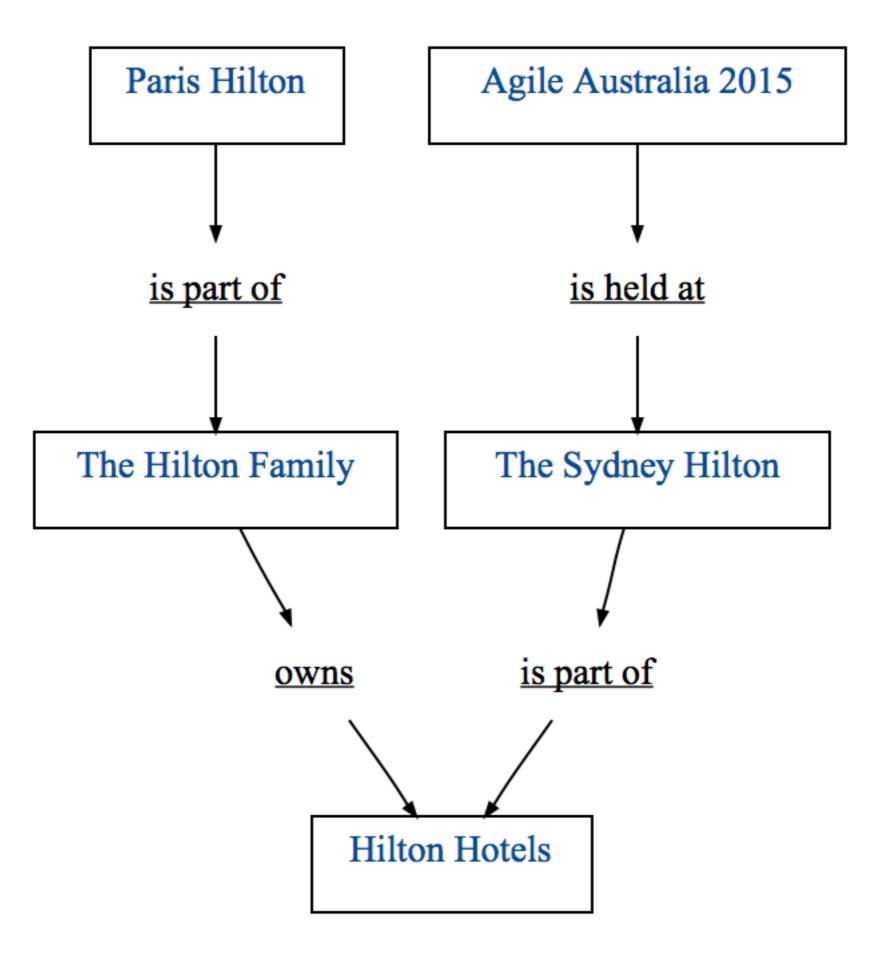


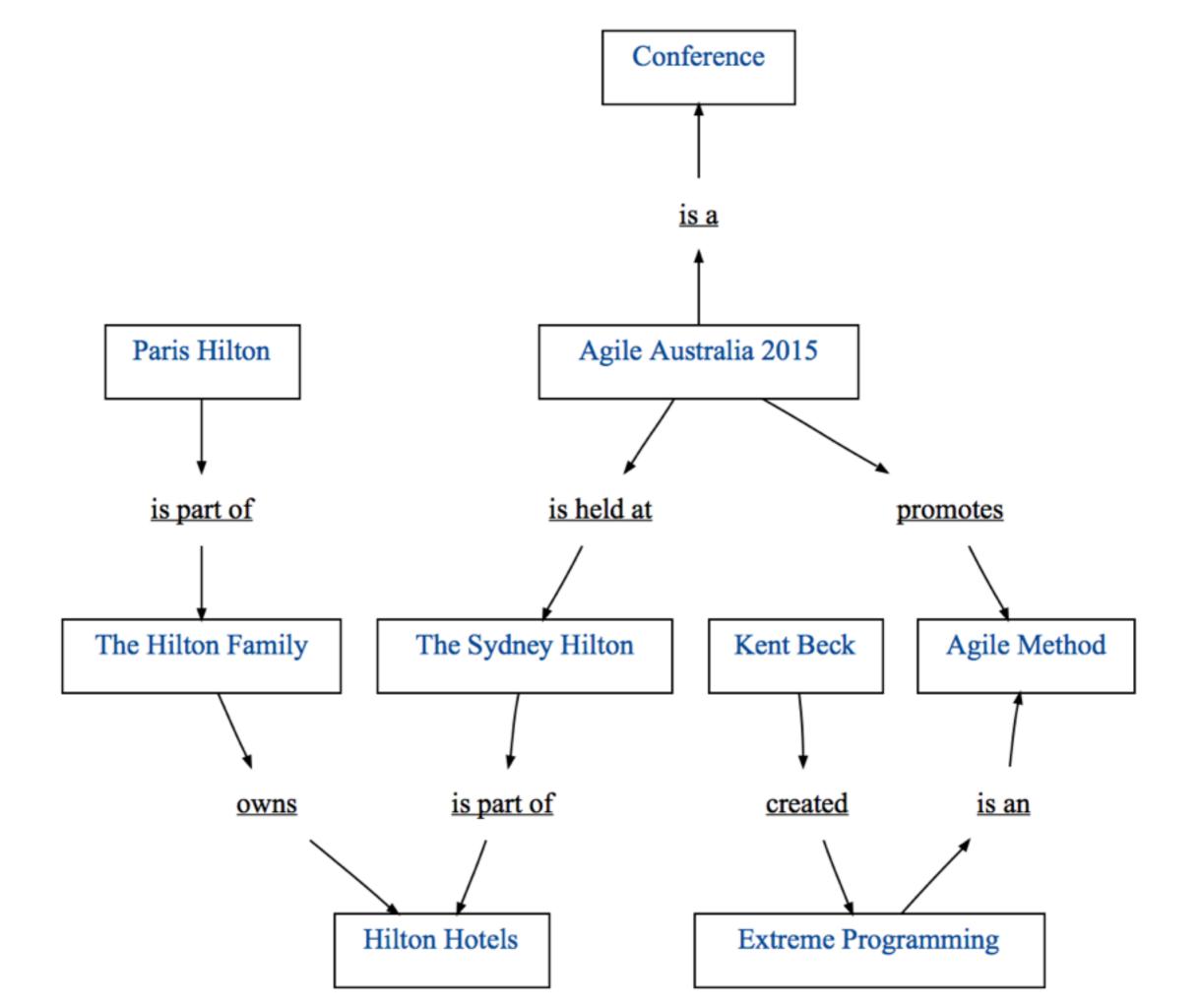












Concepts Predicates and Propositions

Concepts

Kent Beck created Extreme Programming

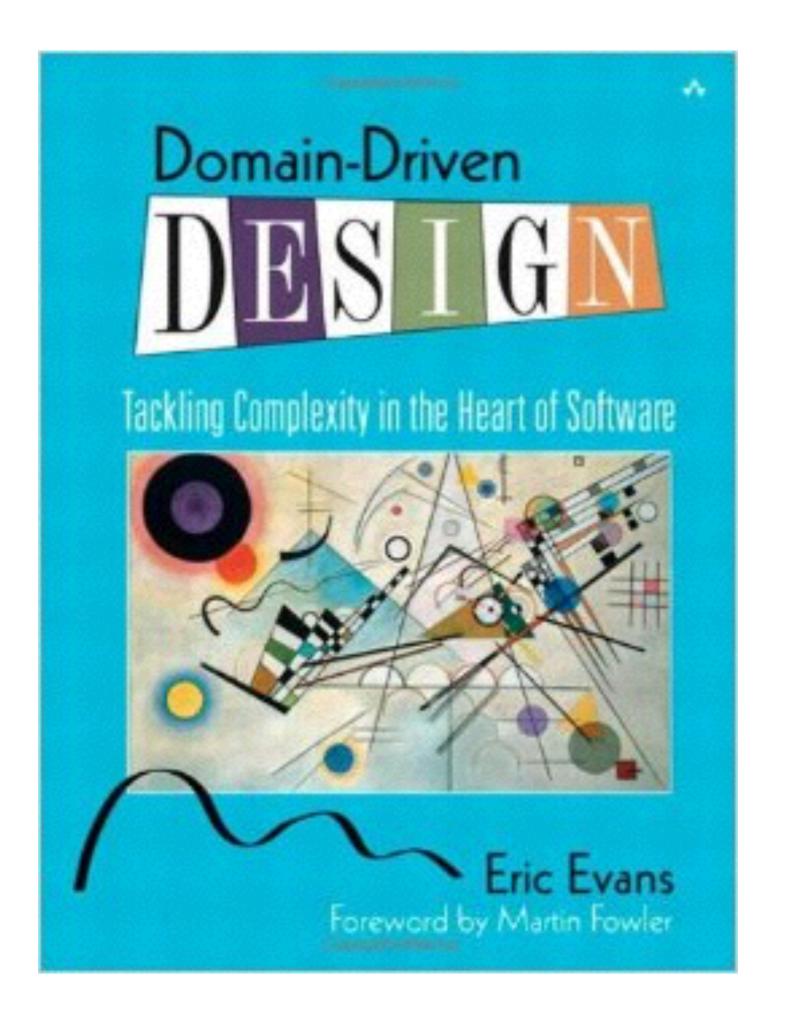
Predicates

Kent Beck created Extreme Programming

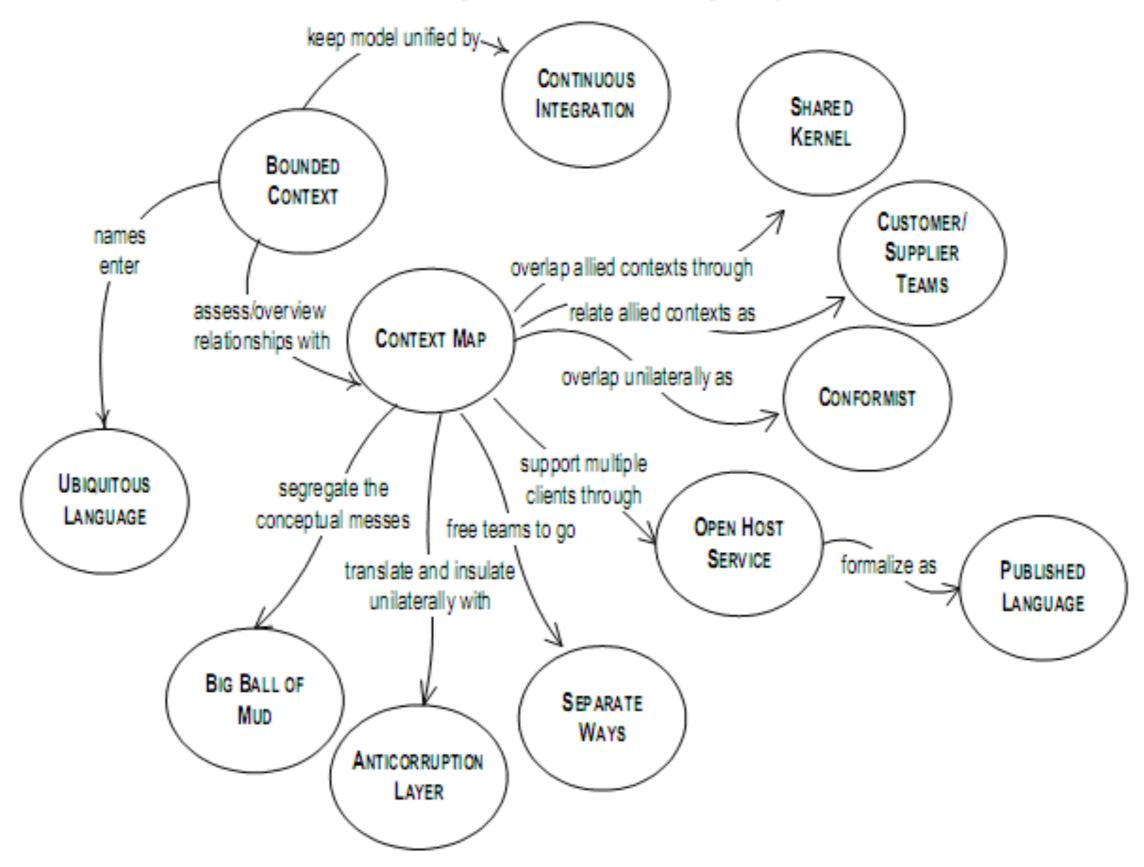
Propositions

Kent Beck created Extreme Programming

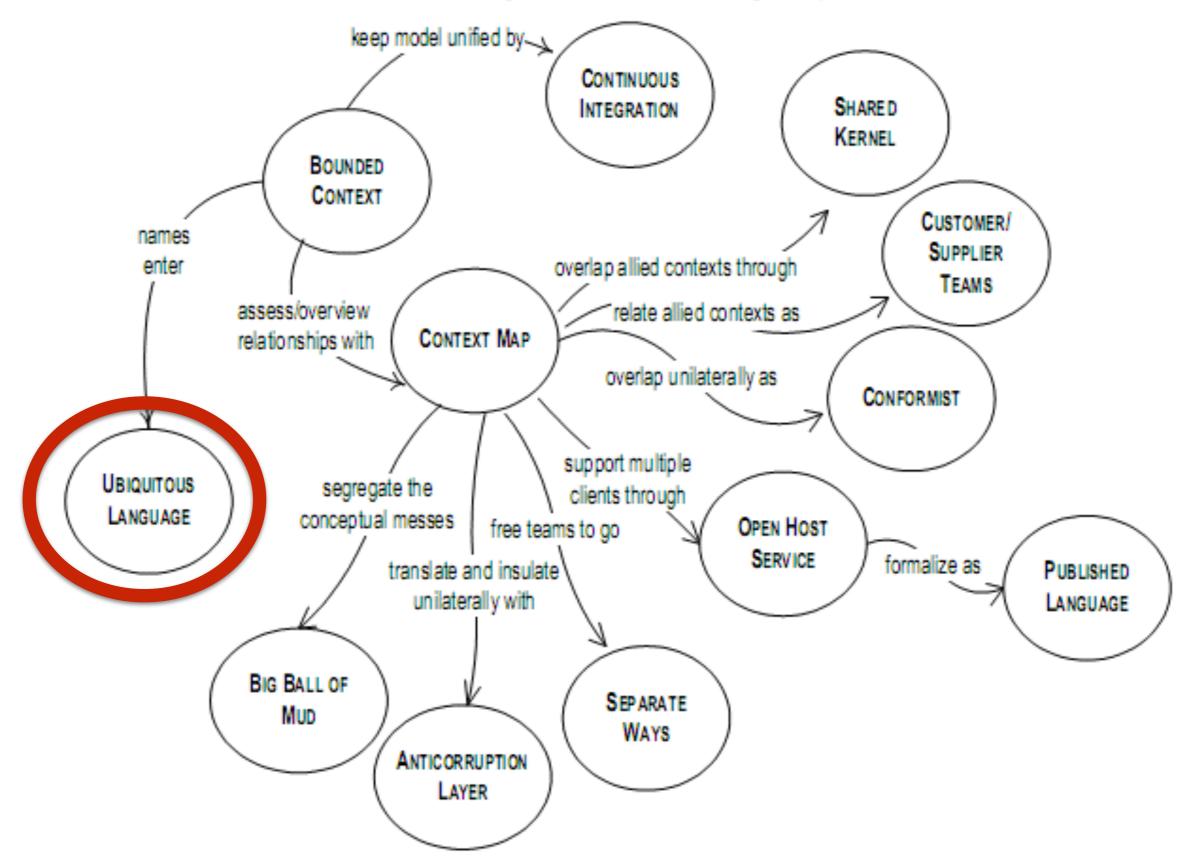
A little background

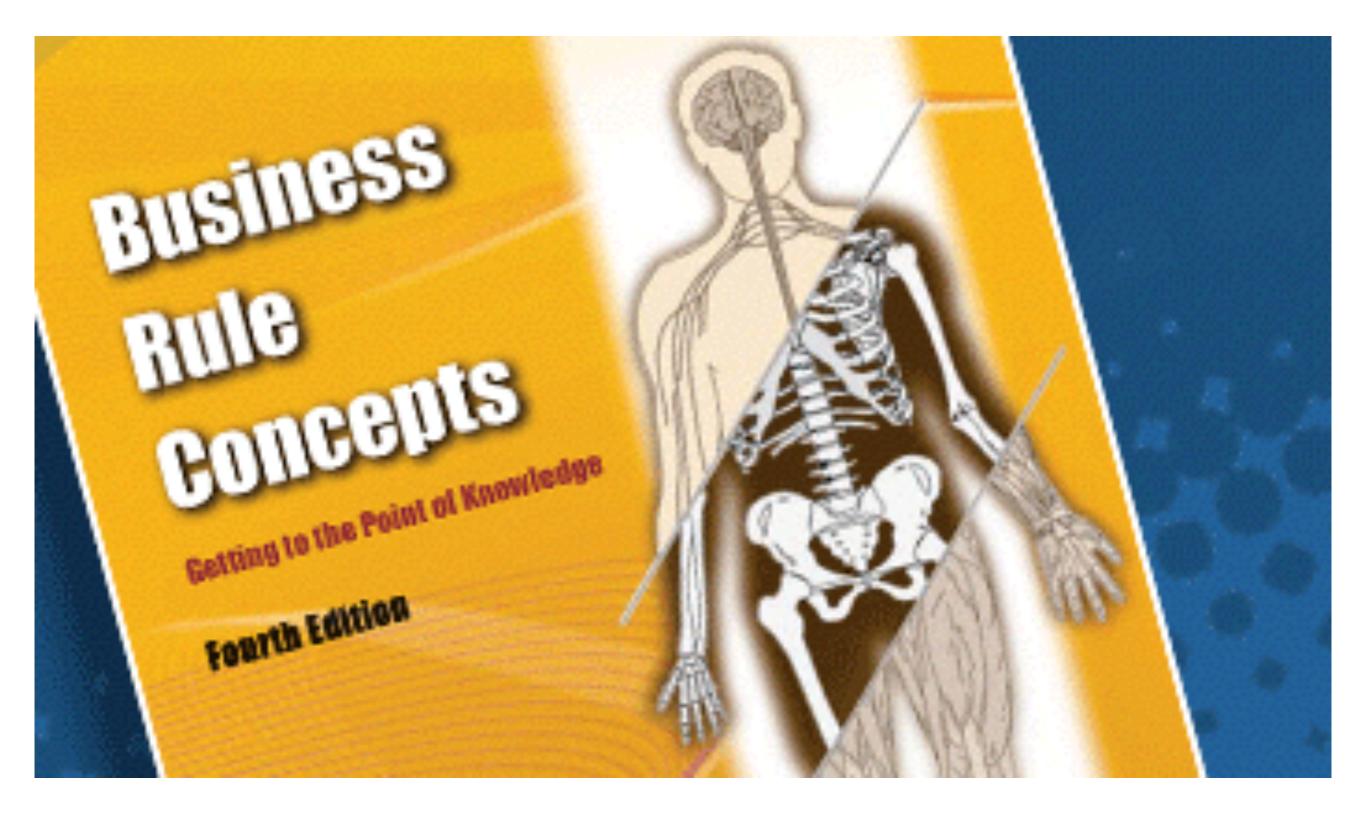


Maintaining Model Integrity

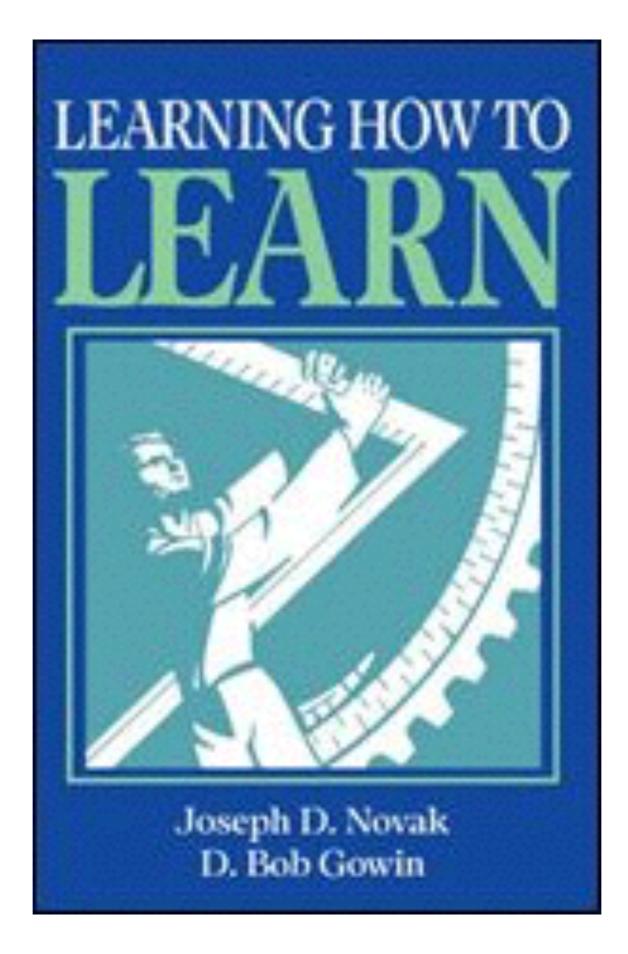


Maintaining Model Integrity





Interactions Processes Rules Concepts



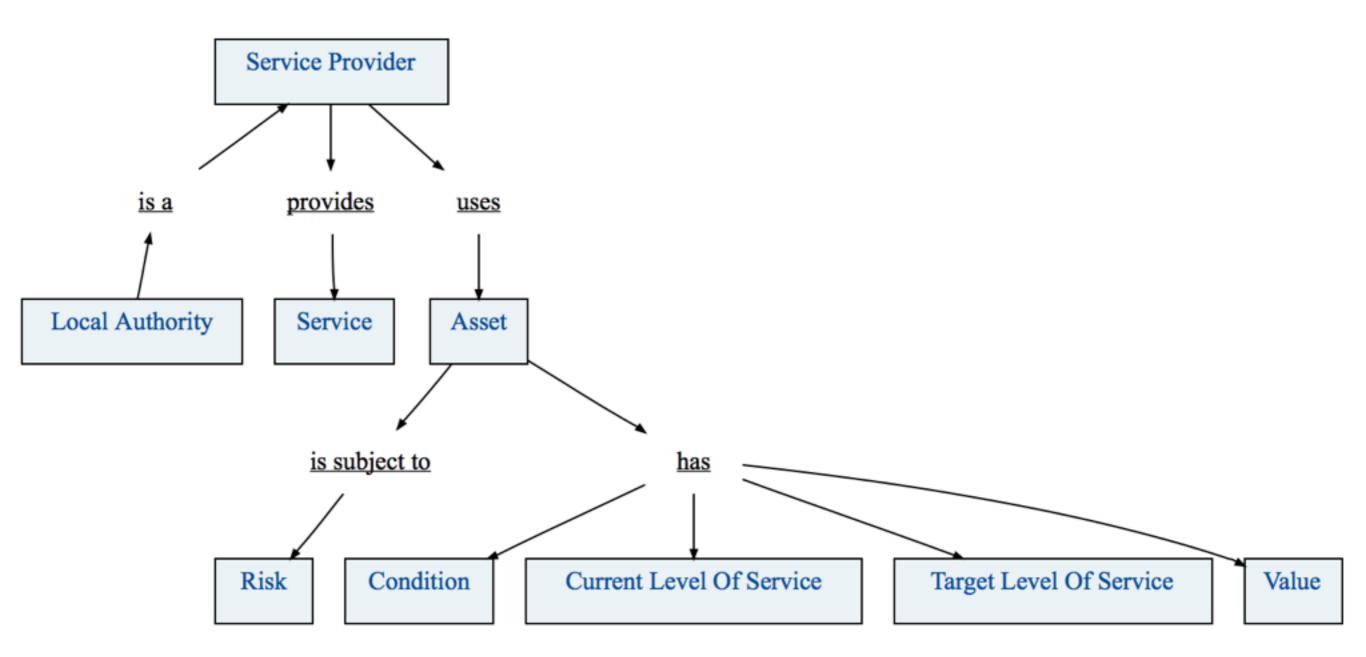
Concept Maps In a Software Domain

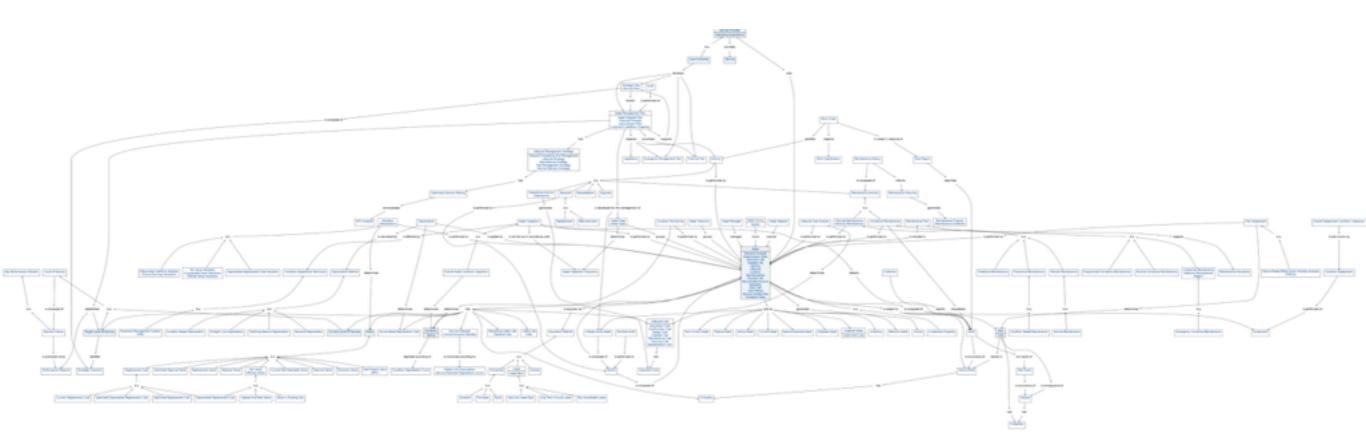
imagine it's Day 1 In your new team

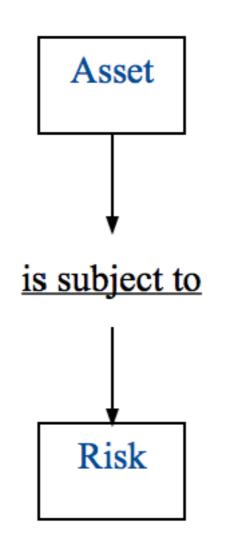
and the domain is Infrastructure Asset Management

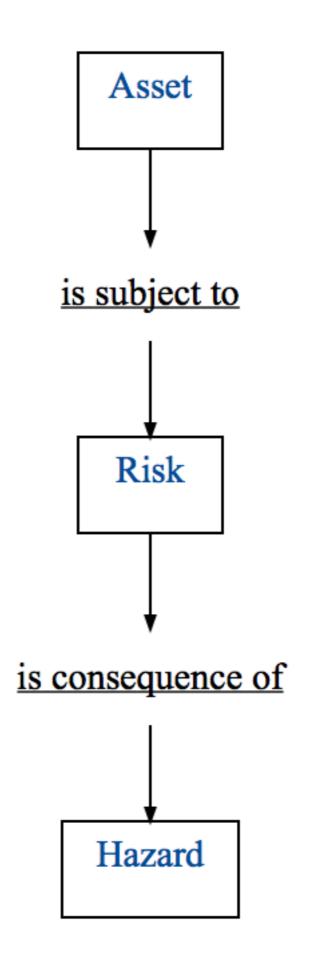
and you don't have a clue :)

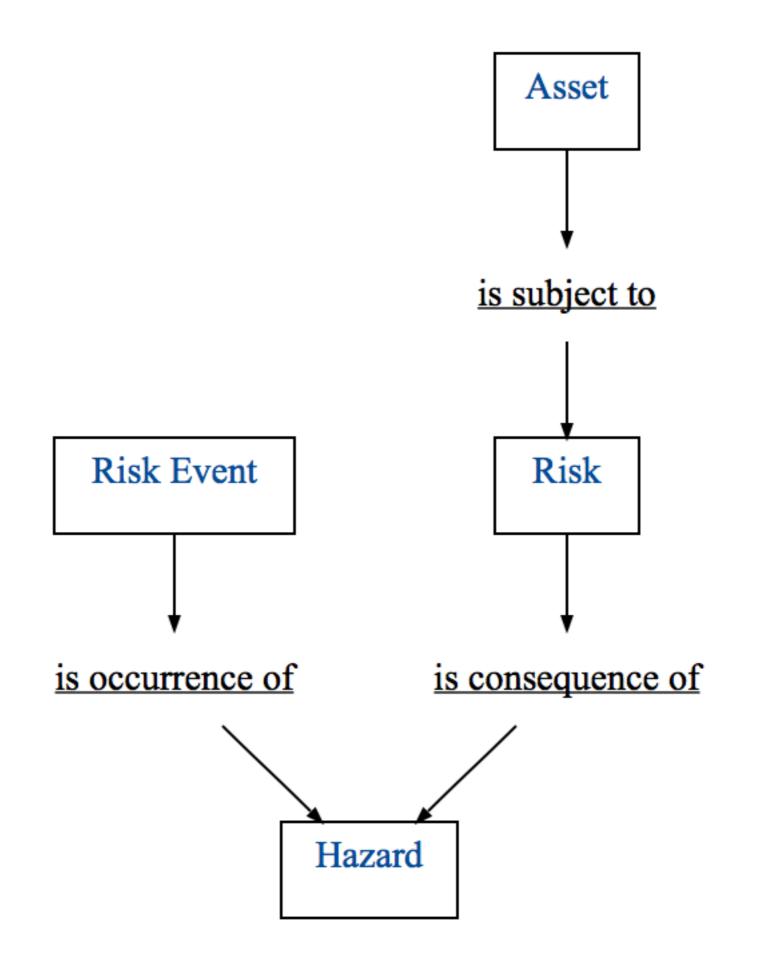


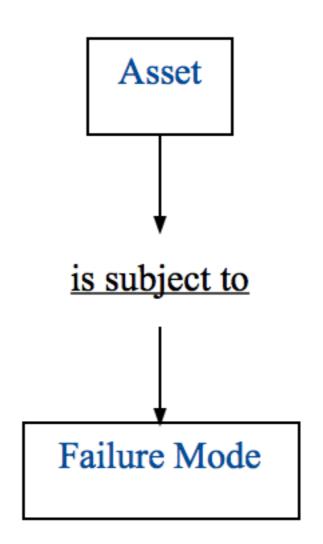


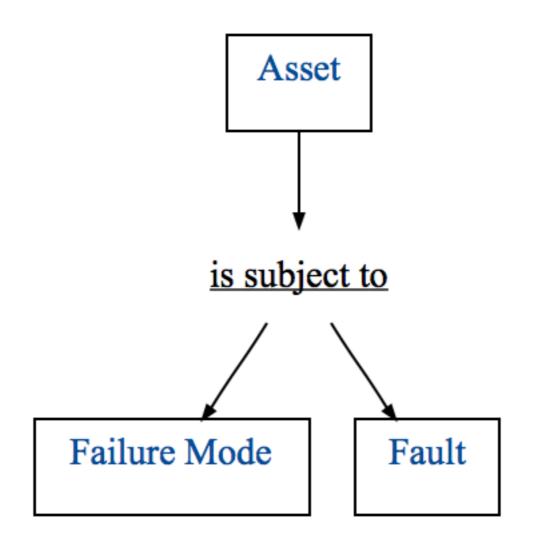


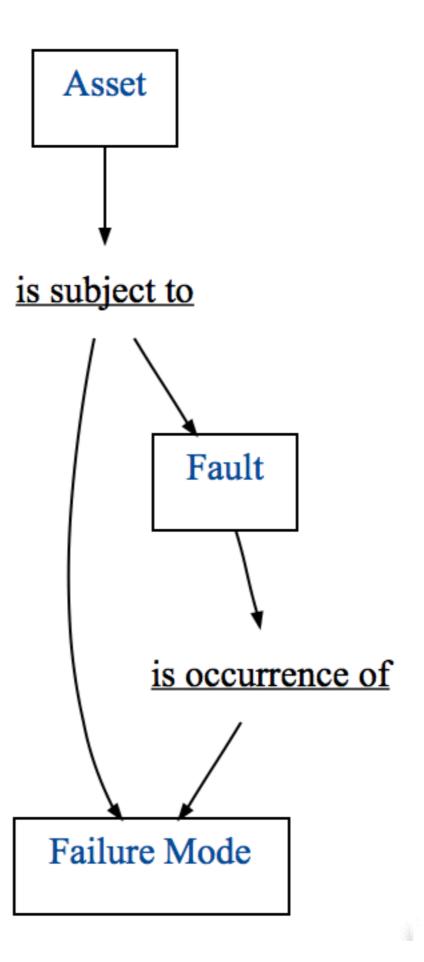


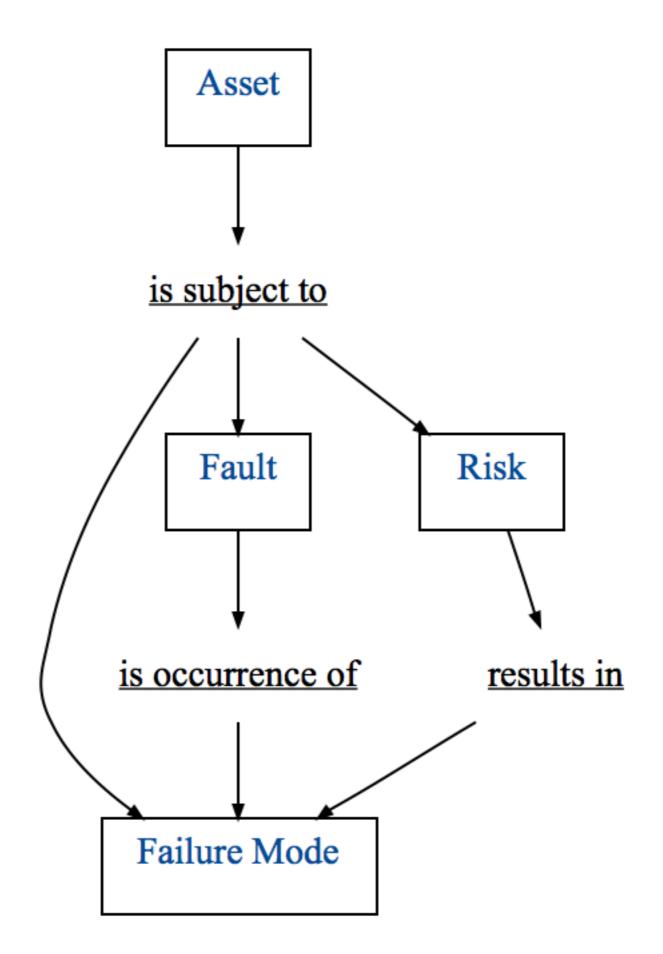


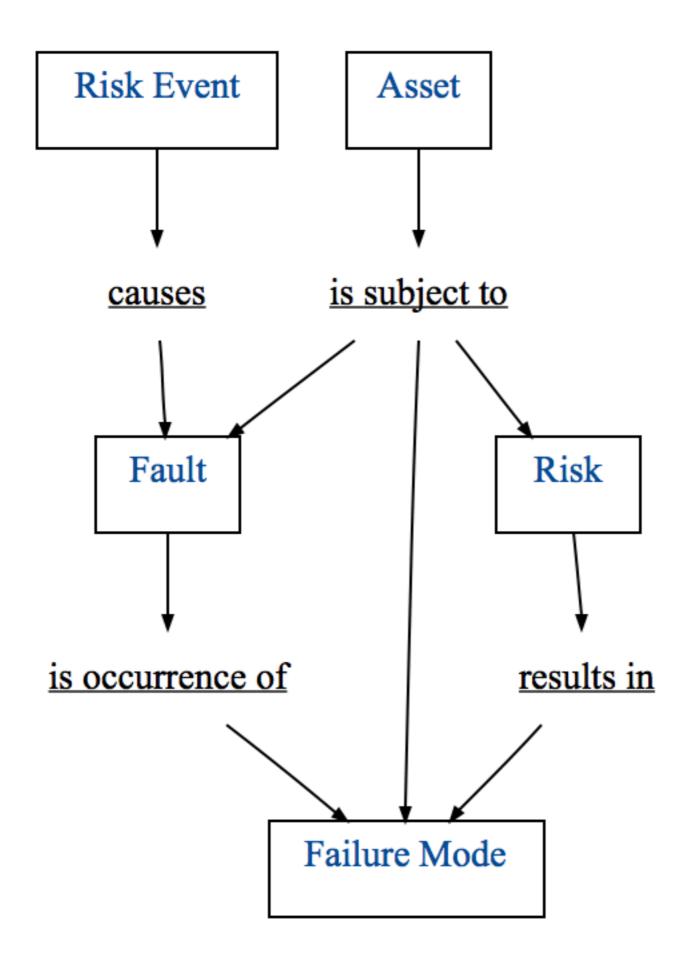


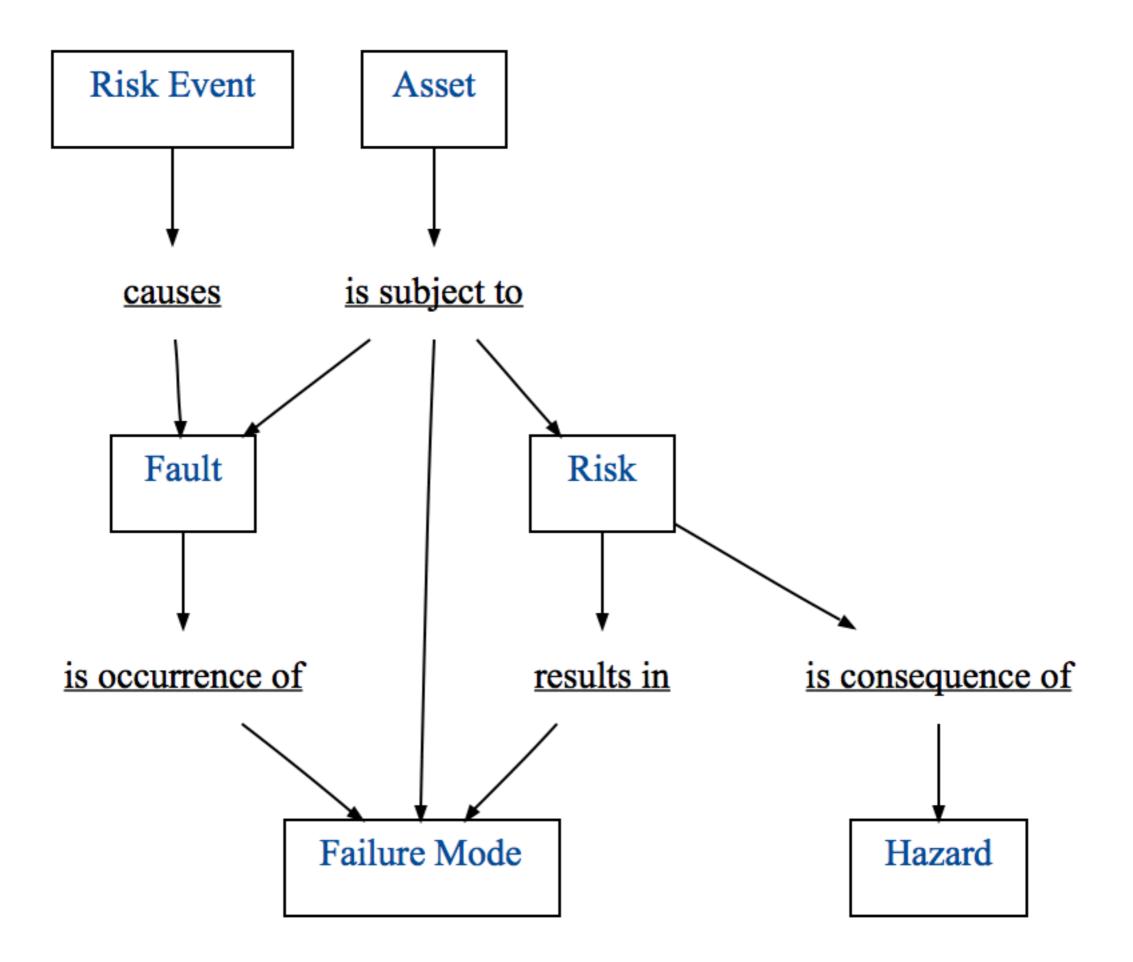


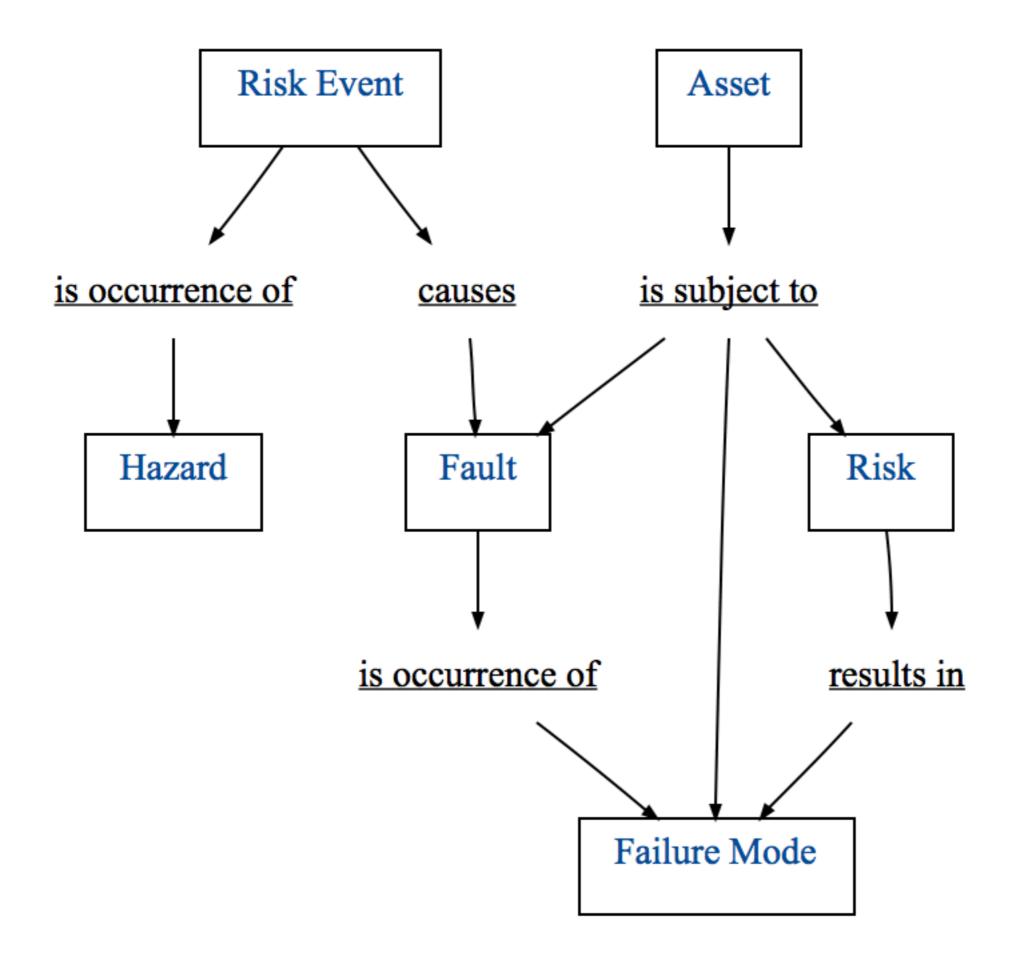


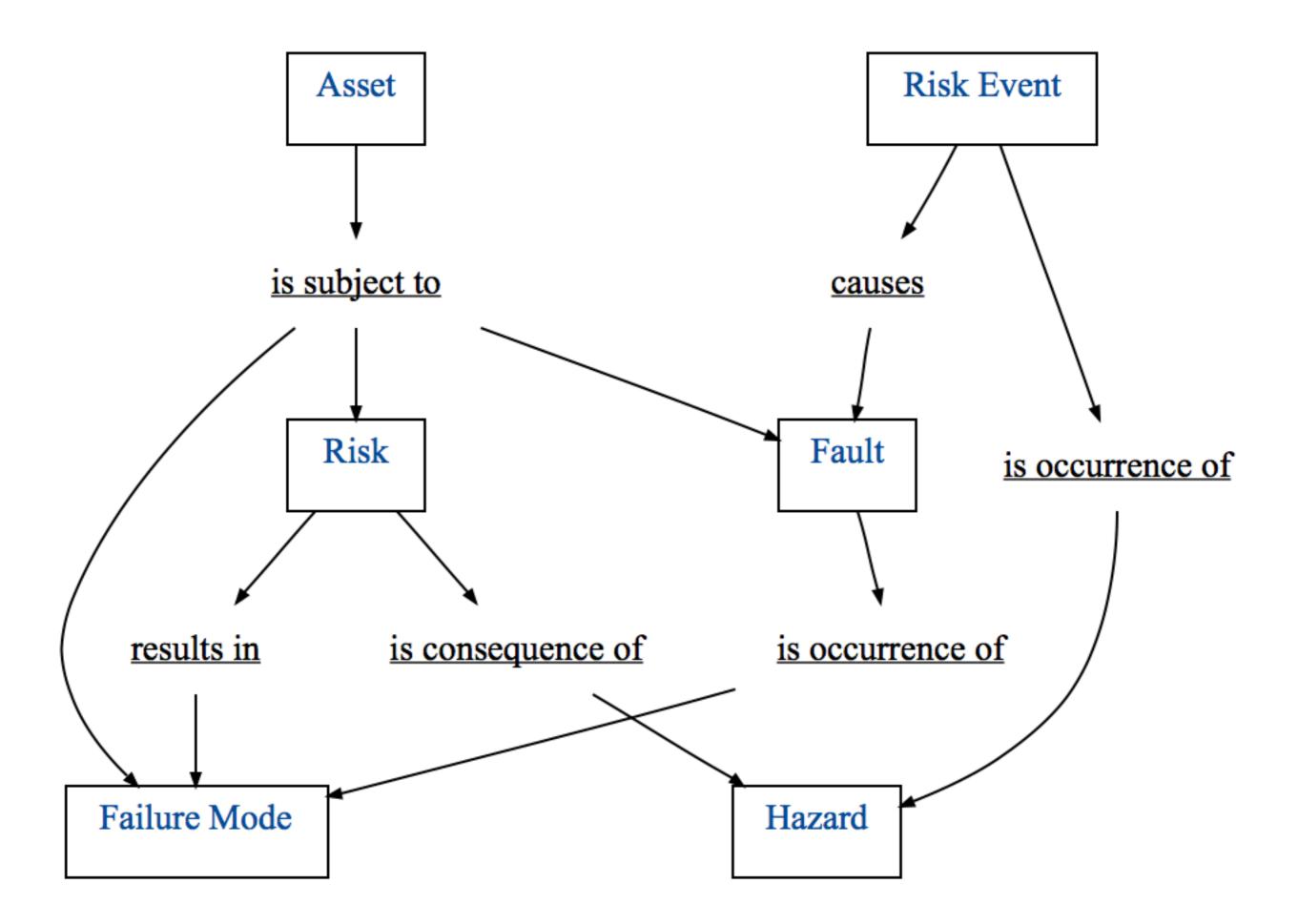


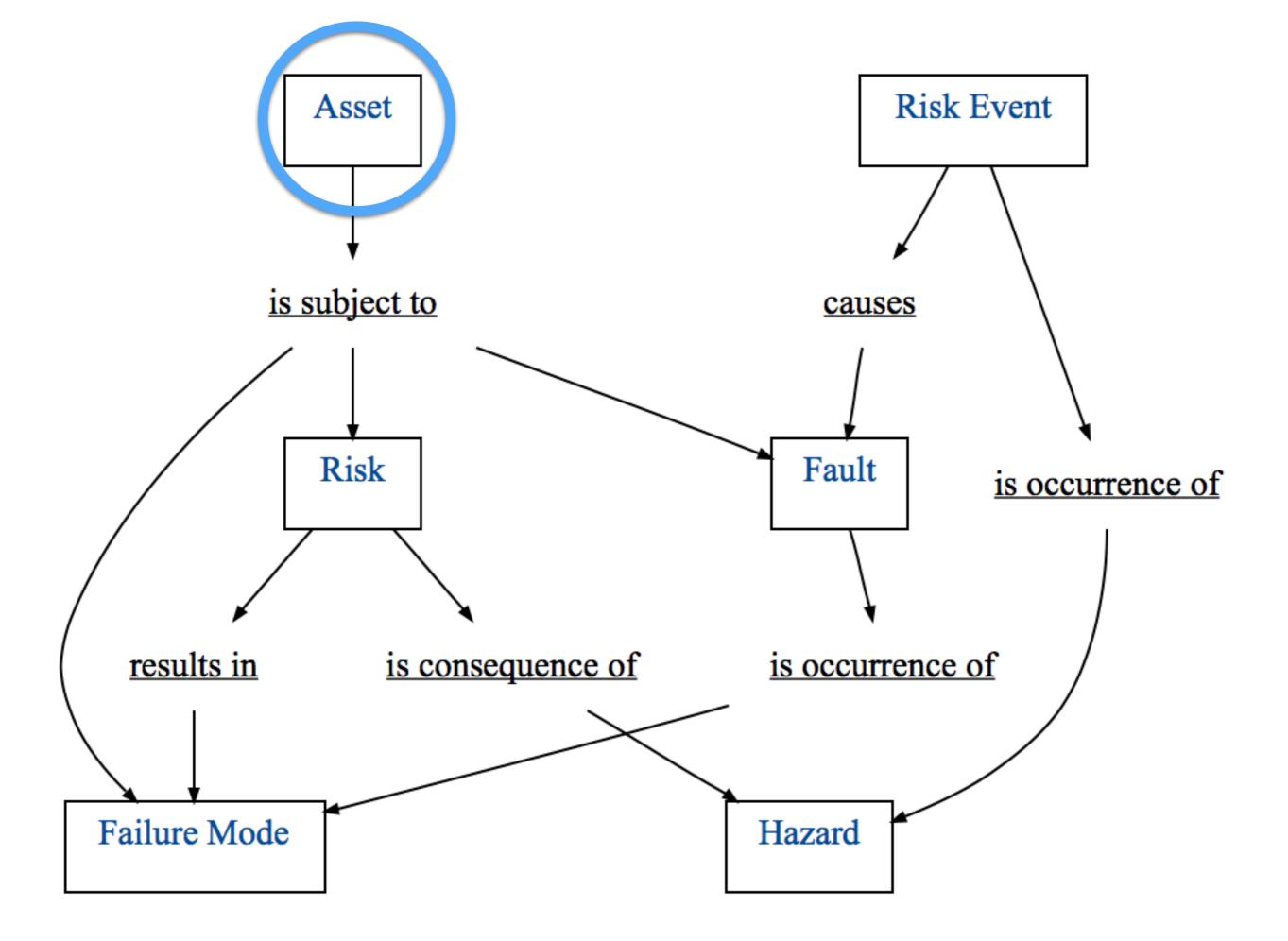


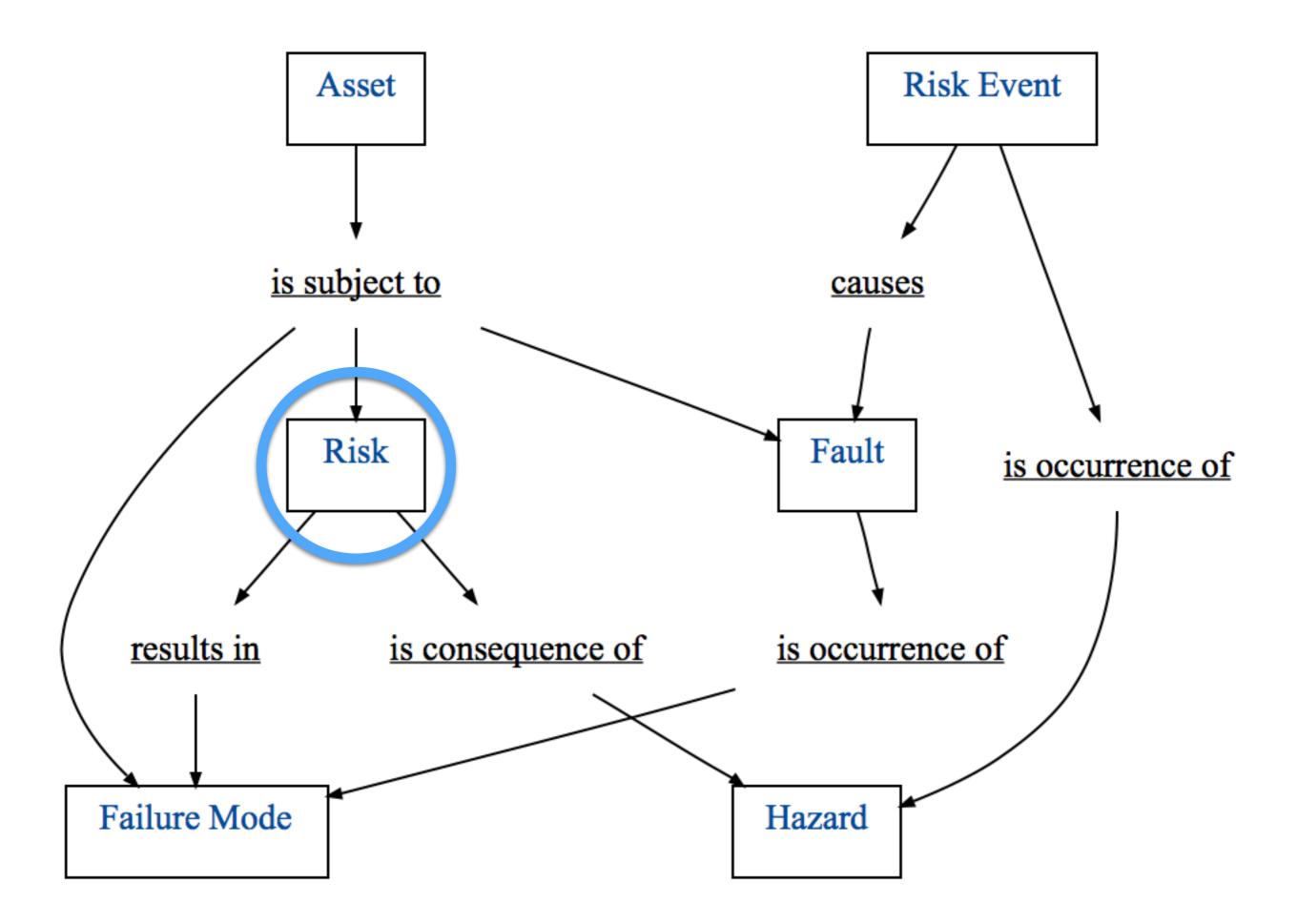


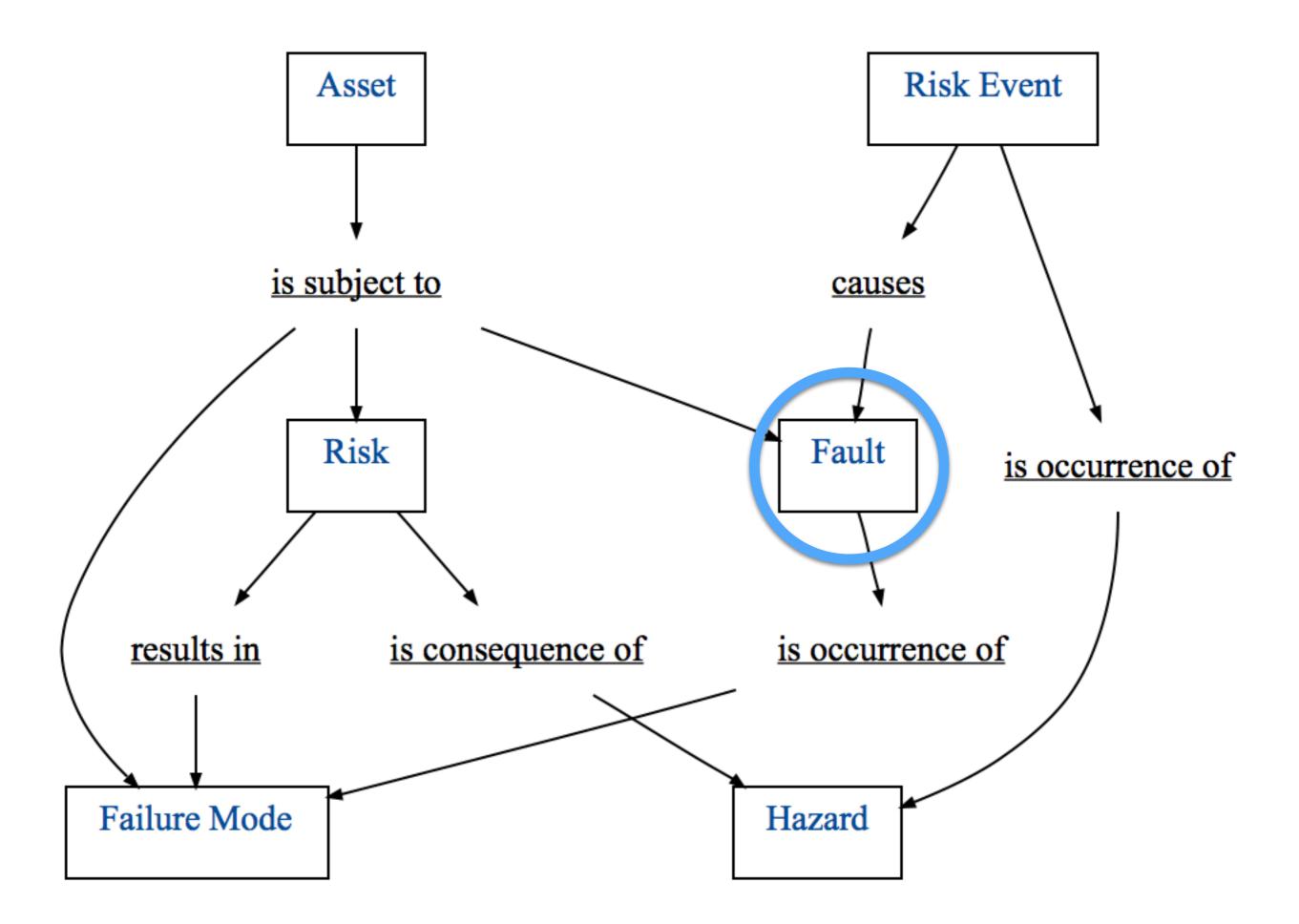












Concept Maps In a SoftwareTeam "This same model should supply the language for the developers and domain experts to communicate with each other, and for the domain experts to communicate among themselves about requirements, development planning, and features. The more pervasively the language is used, the more smoothly understanding will flow."

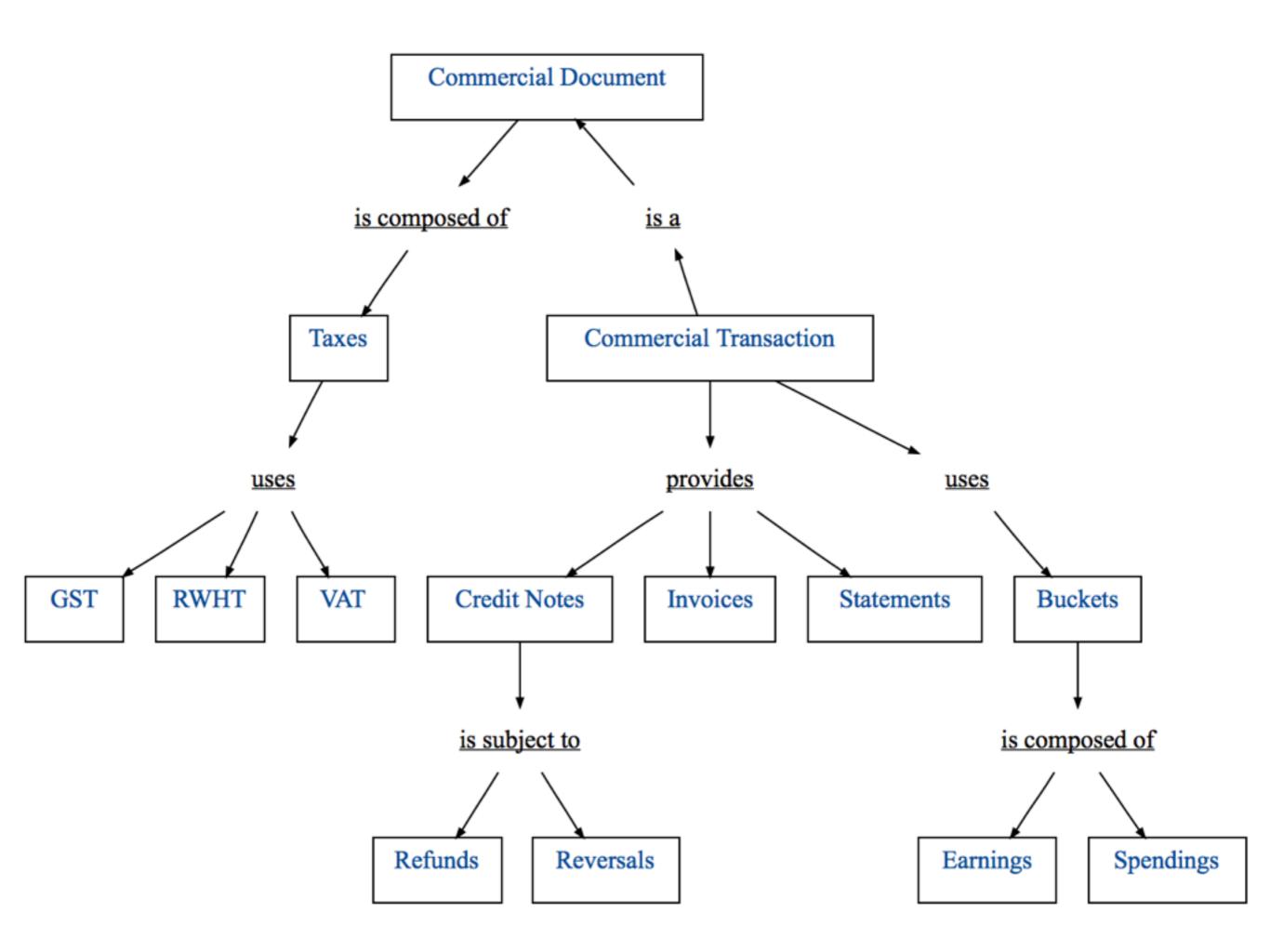
— Eric Evans, Domain Driven Design

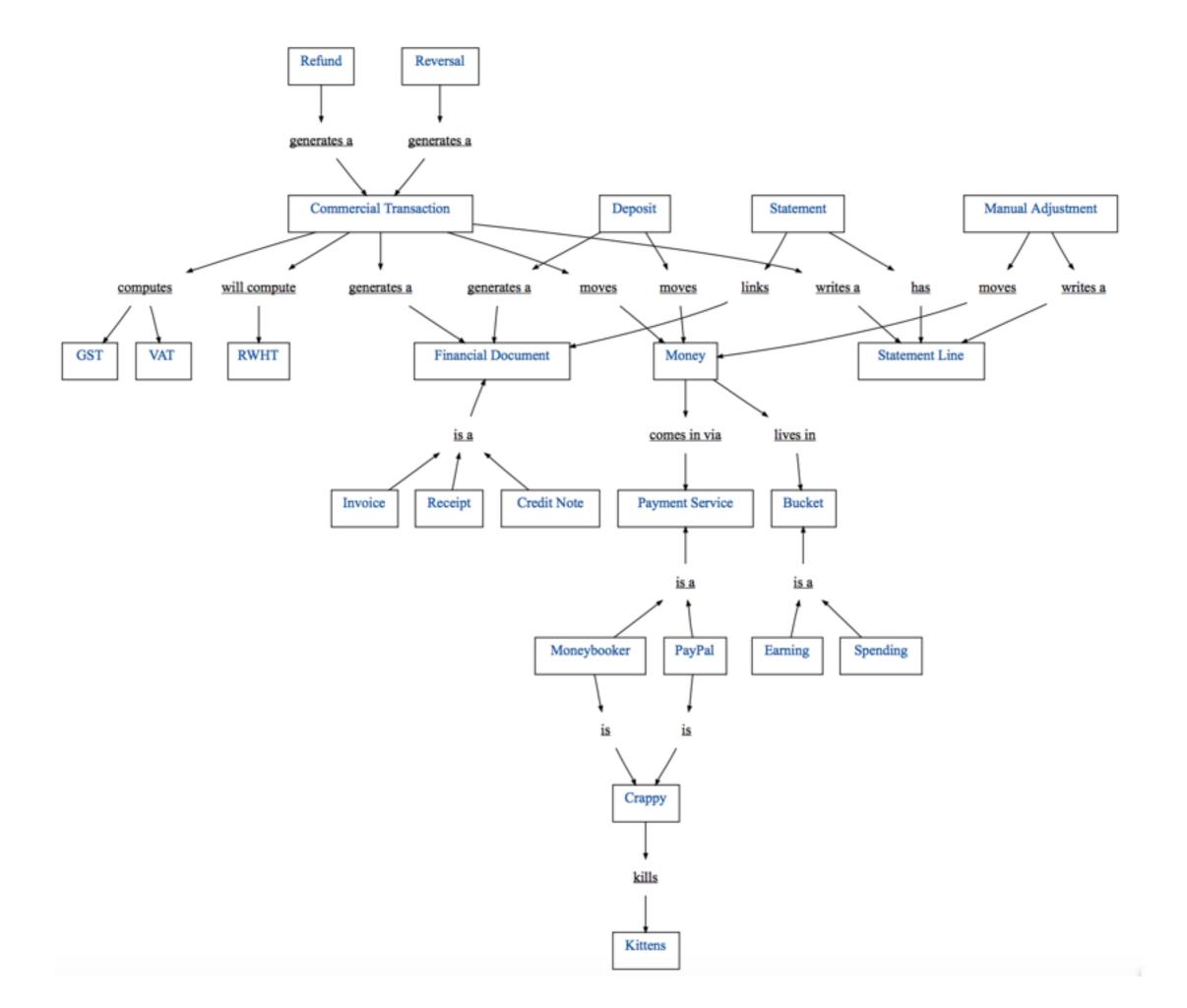
You might think your team has a ubiquitous language

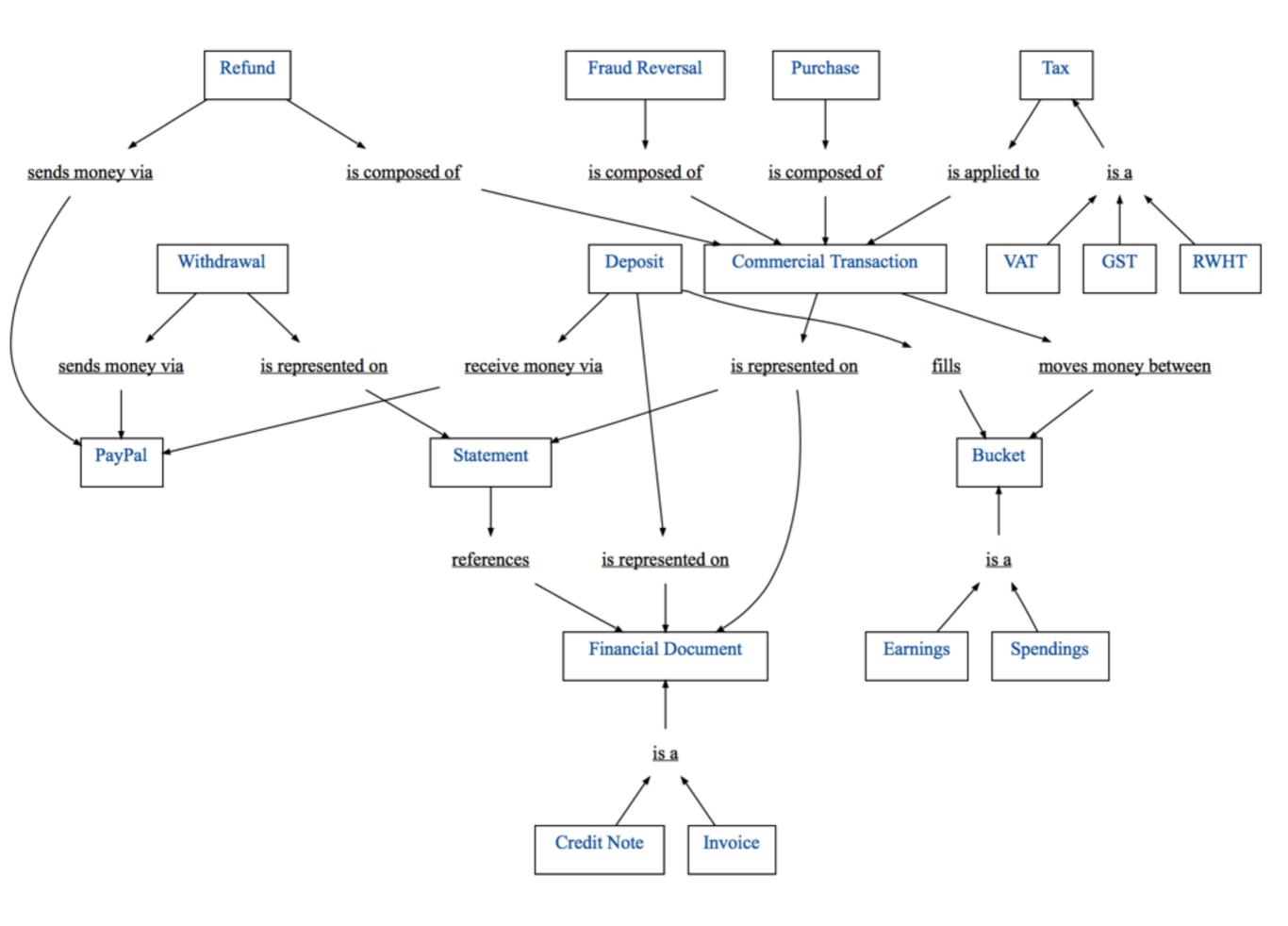
You might want to check :)

COMMERCIAL TRANSACTION COMMERCIAL DECIMIENT STATEMENT INVOLCE CREDIT NOTE V.A.T. G.S.T. RWHT

FUSSIT UN THORAUAL EARNINGS PANDAL SPENDINGS REFUND BUCKET MANUAL ADJUSSIMENT REVERSAL







how similar are they?

Number of team members: 6

Total number of propositions: 111

Total number of *unique* propositions: 86 (77%)

Number of propositions shared by more than half of the team: 4

Number of propositions shared by the whole team: 0

but let's cut them some slack...

...and just count any two propositions that connect the same concepts as equivalent...

now how similar are they?

Total number of *unique* propositions: 86 (77%) -> 71 (64%)

Number of propositions shared by more than half of the team: 4 -> 6

Number of propositions shared by the whole team: 0 -> 0

Next Steps

- pick the best one
- tighten it up
- merge in what's missing from the others
- iterate!
- refer to it often

Wrap Up

Build Your Own :) <u>https://capstone.herokuapp.com/</u> or, hopefully by the time you read this <u>https://www.conceptmaps.io</u>

Questions

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