

Concept-Centric Coding (C3) for Software Evolution in an Agile Context

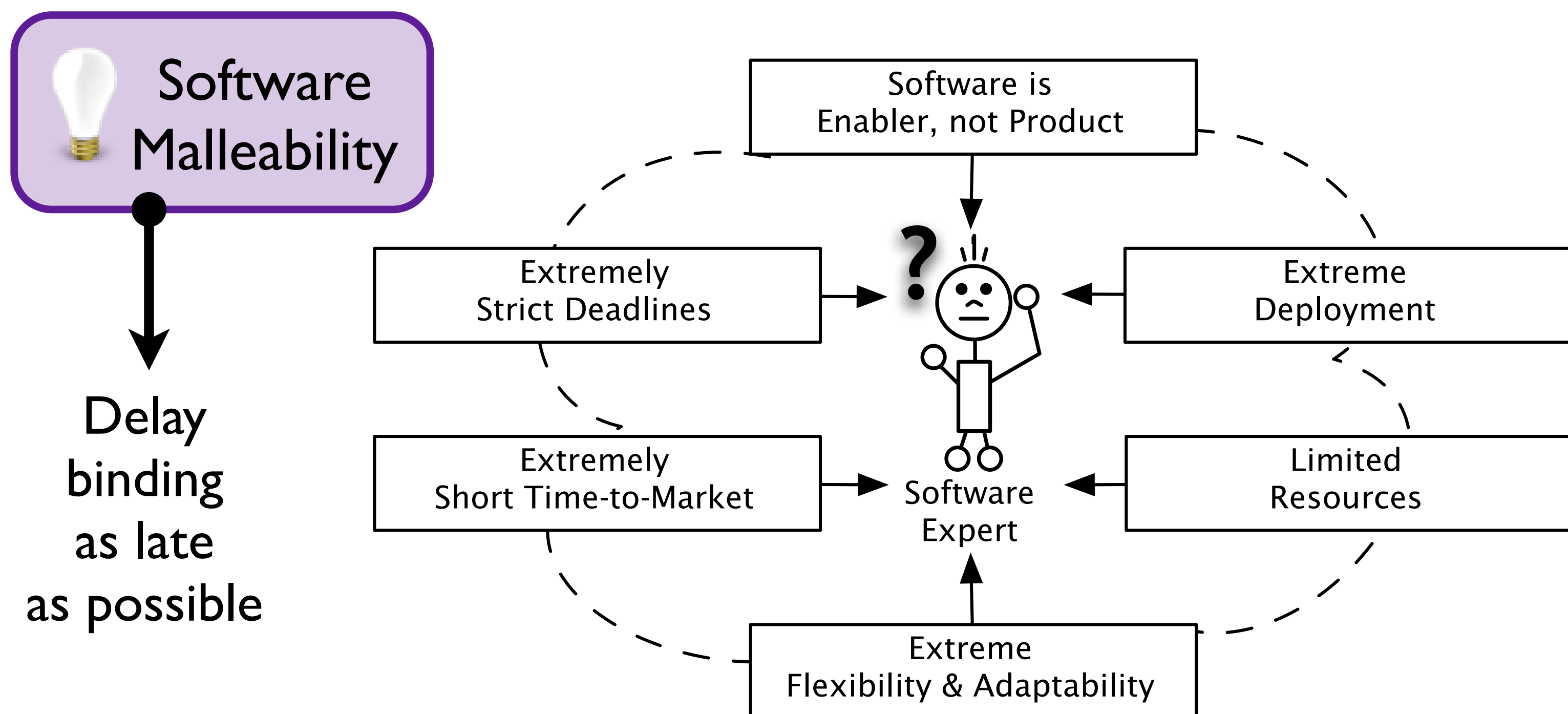
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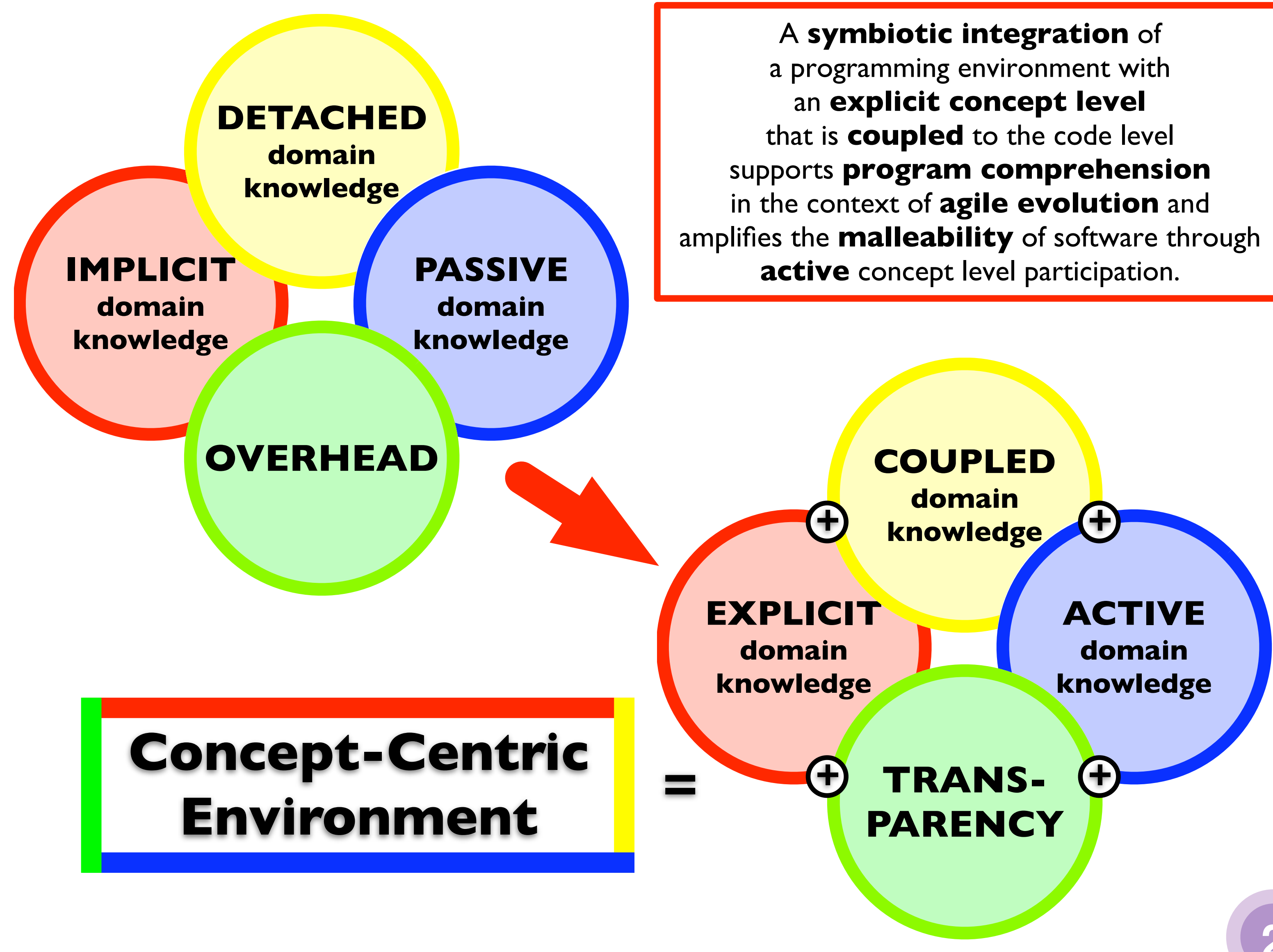


Agile Context? e.g. iMedia Software Development



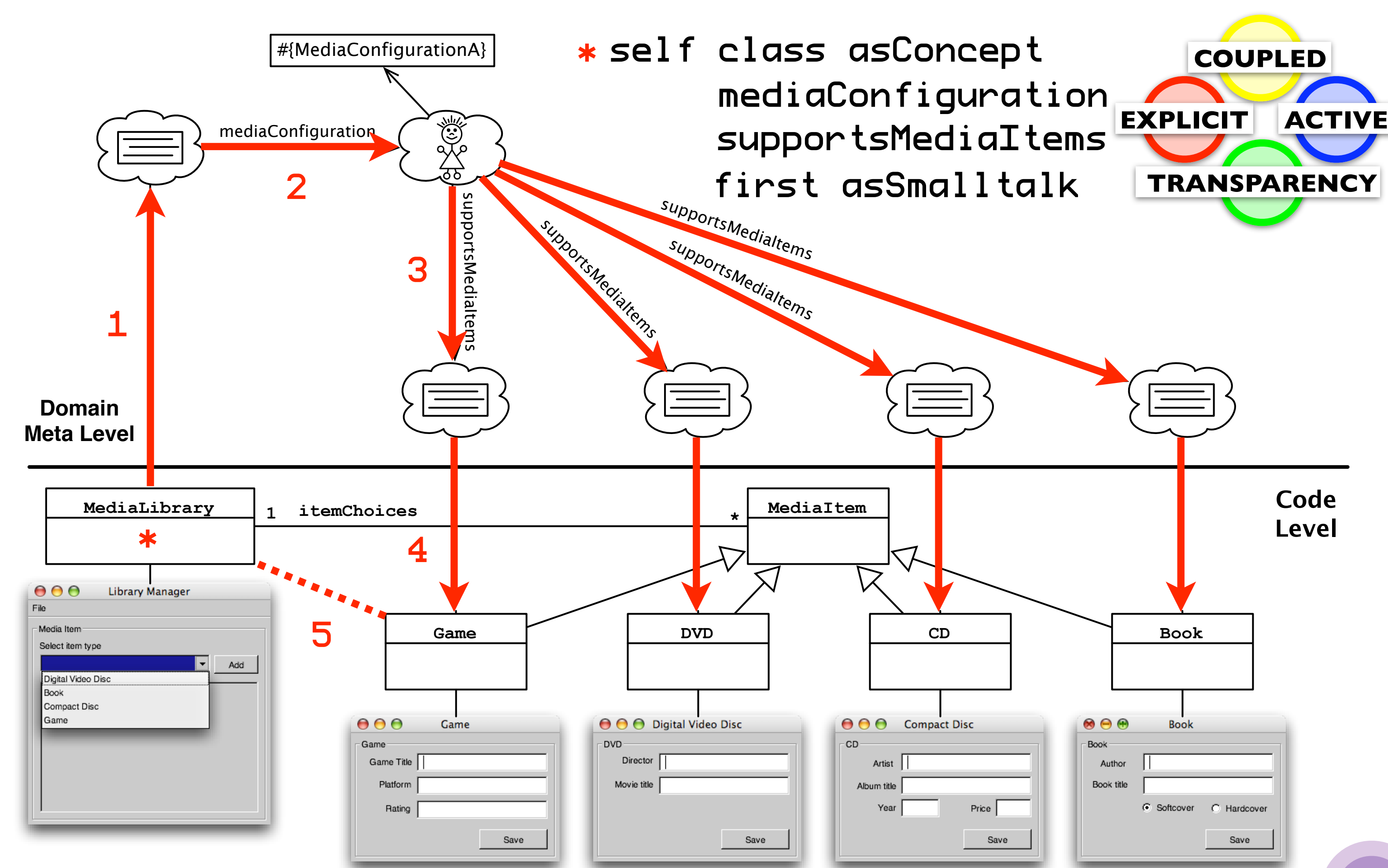
60% of developer time is actually spent on program comprehension! → Importance of connected domain knowledge...

1



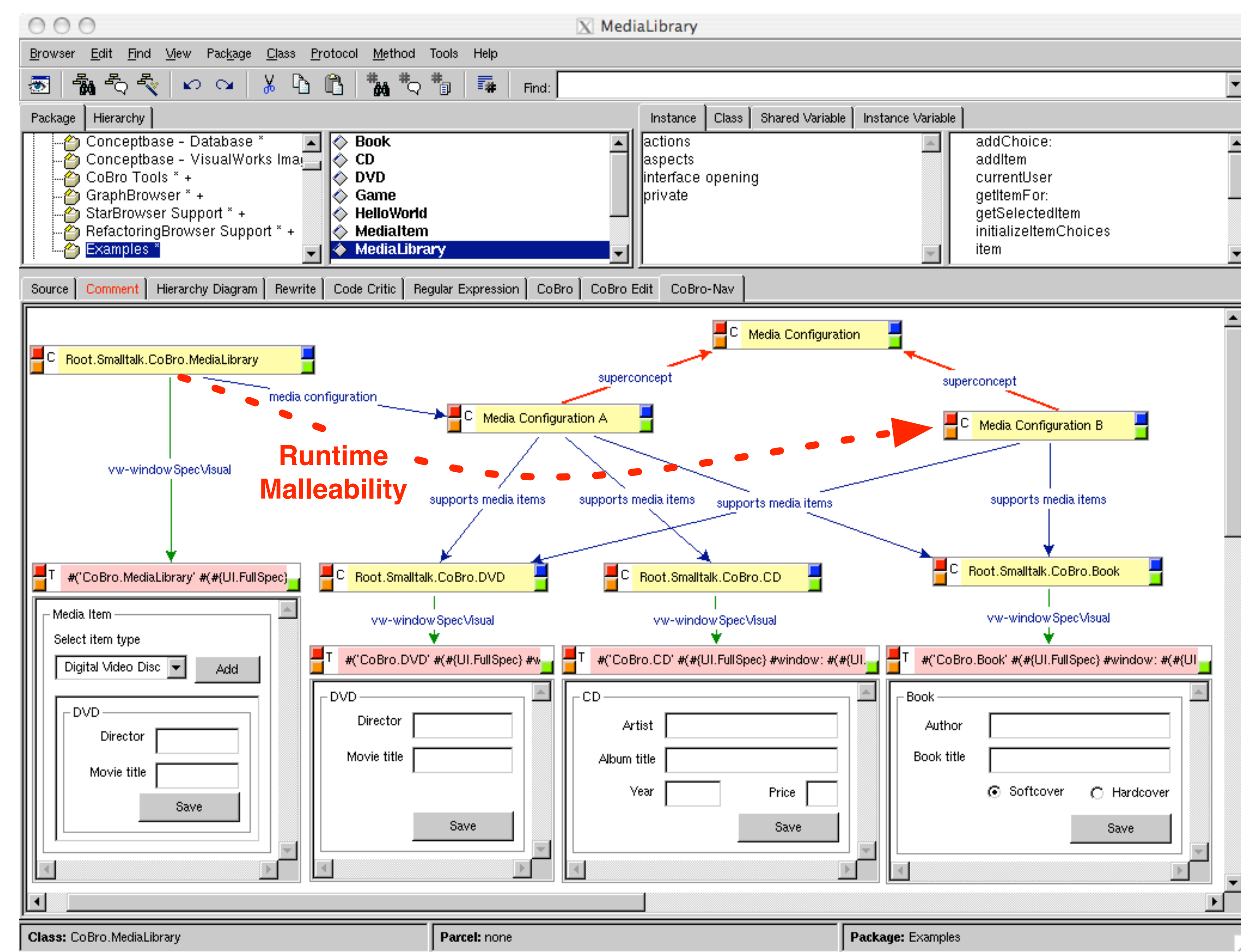
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Up/Down Mechanism and Symbiosis with Smalltalk



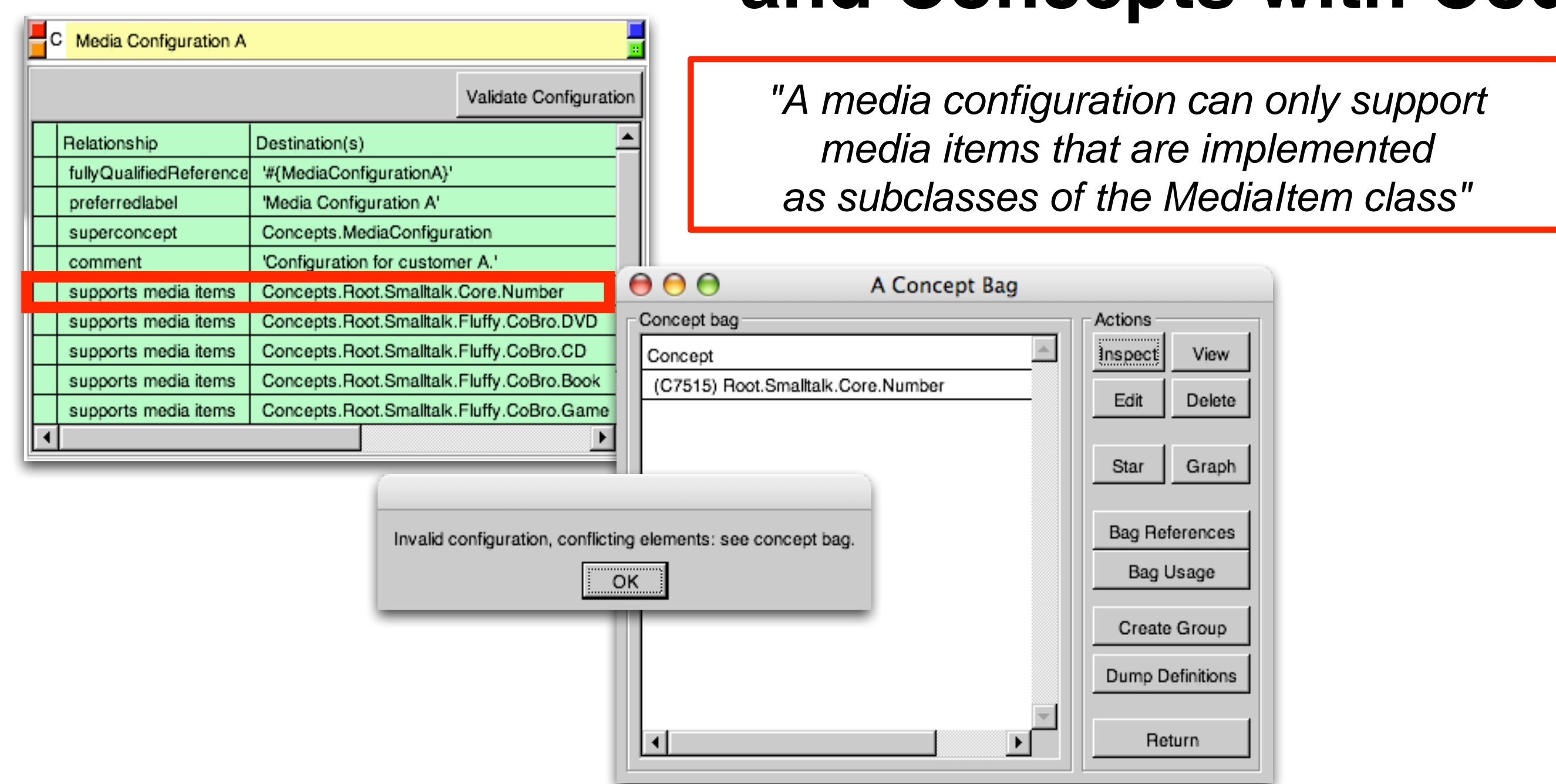
3

Close integration with Visualworks Smalltalk IDE



4

Annotating Code with Concepts and Concepts with Code



- Partial Metacircularity**
- CoBro-Nav node visualisations, line colors, ...
 - CoBro value interpreters, core caching, ...

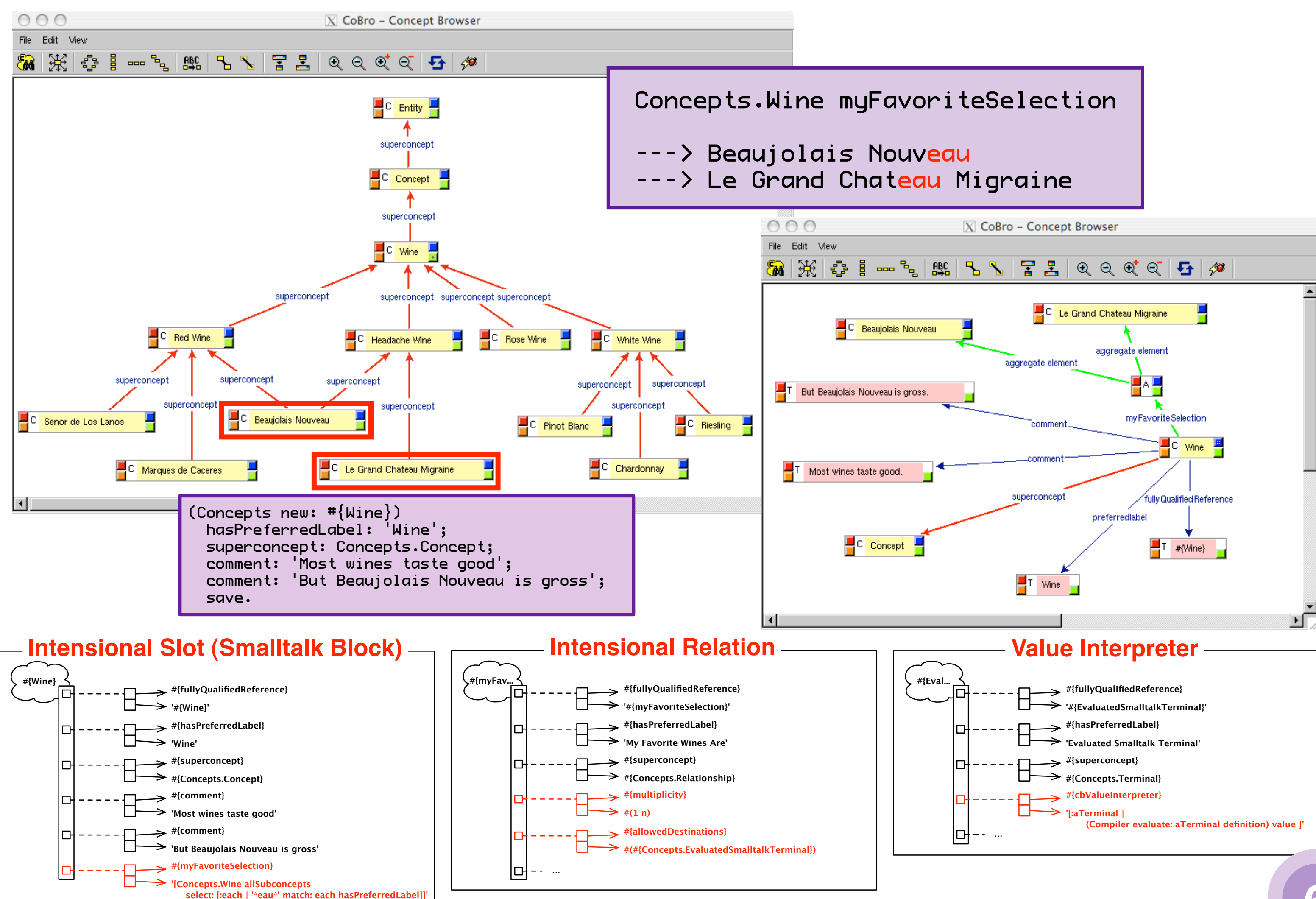
```

Concepts.MediaConfiguration
configurationValidator:
[:config |
  config supportsMediaItems reject:
  [:each | each asSmalltalk
    inheritsFrom: MediaItem]]';
save.

```

5

Value Interpreters for Intensional Concept Slots



6