



Early Aspects Workshop Panel: What can early aspects do for software product lines?

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JFK, Jan 20, 1961

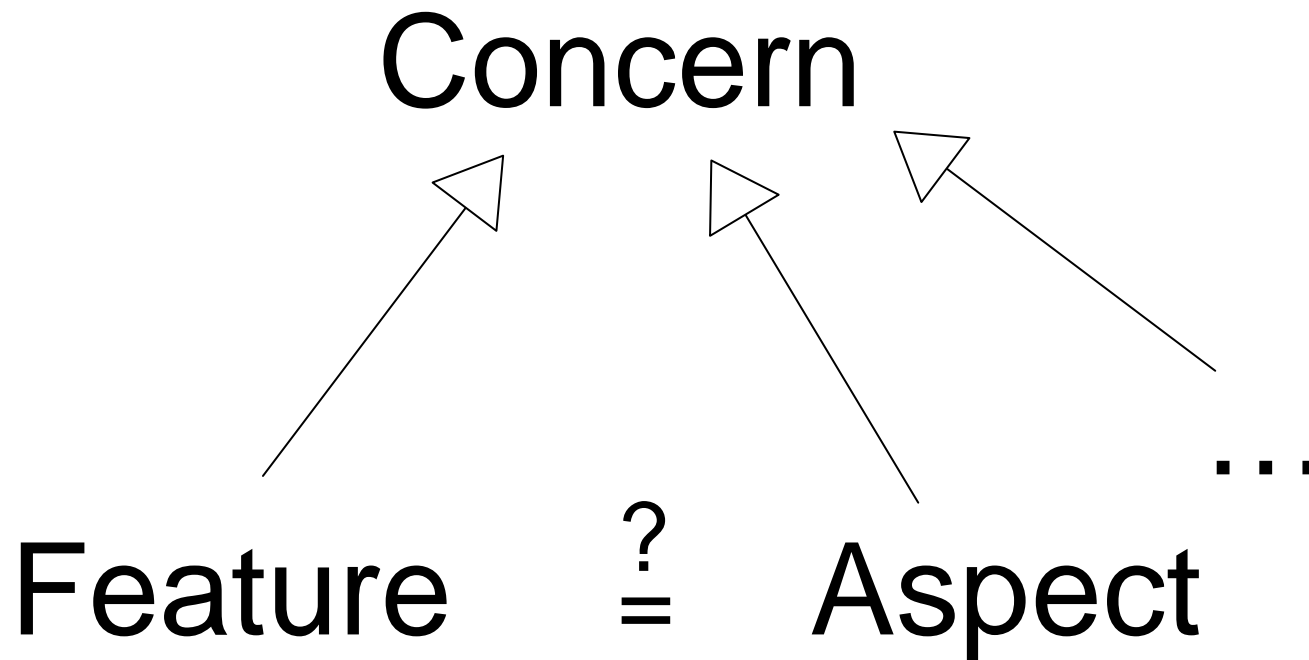
“Ask not what your country can do for you; ask what you can do for your country.”



What can early aspects do for software product lines?

What can software product lines do for early aspects?





Crosscutting features versus non-crosscutting features

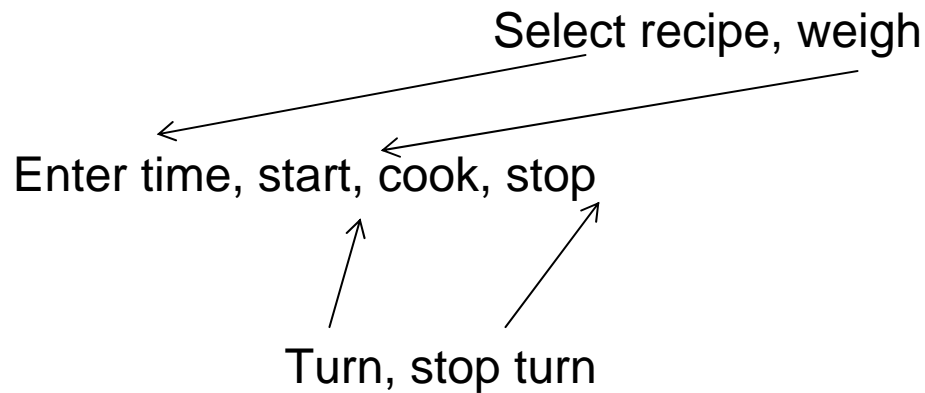
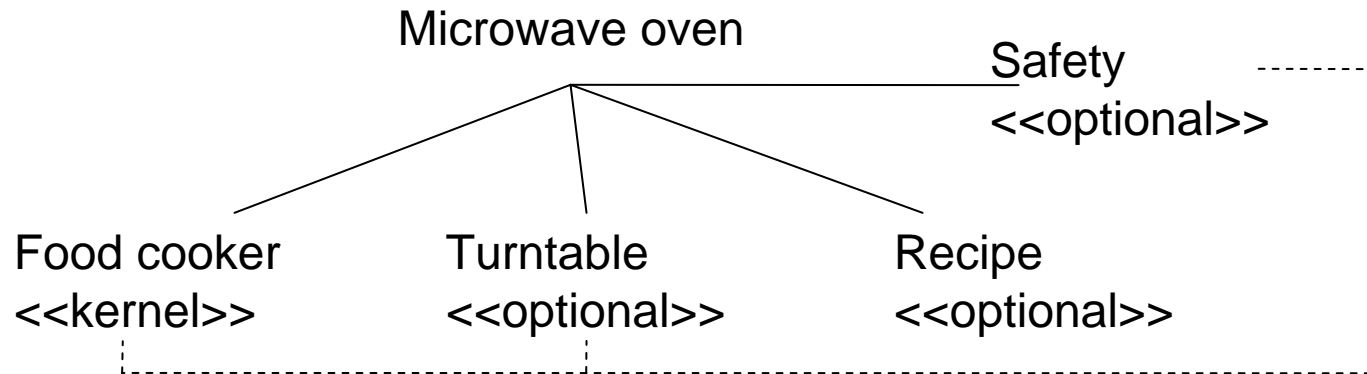


The litmus test

- Take a paper on “aspect-orientation applied to software product lines”
- Replace “aspect composition” with “feature composition”
- If it still makes sense, I am right



(almost) all features are crosscutting



So why have 2 different sets of techniques for crosscutting & noncrosscutting features?

(pattern)

**Abstract representation
of matching base models**

+

Aspect model



**Composed base and
aspect model**

(Graph Transformation)

- Advantages:
 - Any composition strategy – not just before, after, around
 - Fully pledged pattern language with powerful quantification mechanisms
- Applied to both SPLs and AOM

Let's Unify

Product lines	Early aspects
Feature interaction analysis	
	Semantic-based composition
Mining features	
Application derivation	
Variant management	
	Sequence pointcuts
	Structuring feature models
Expressive feature models	

