

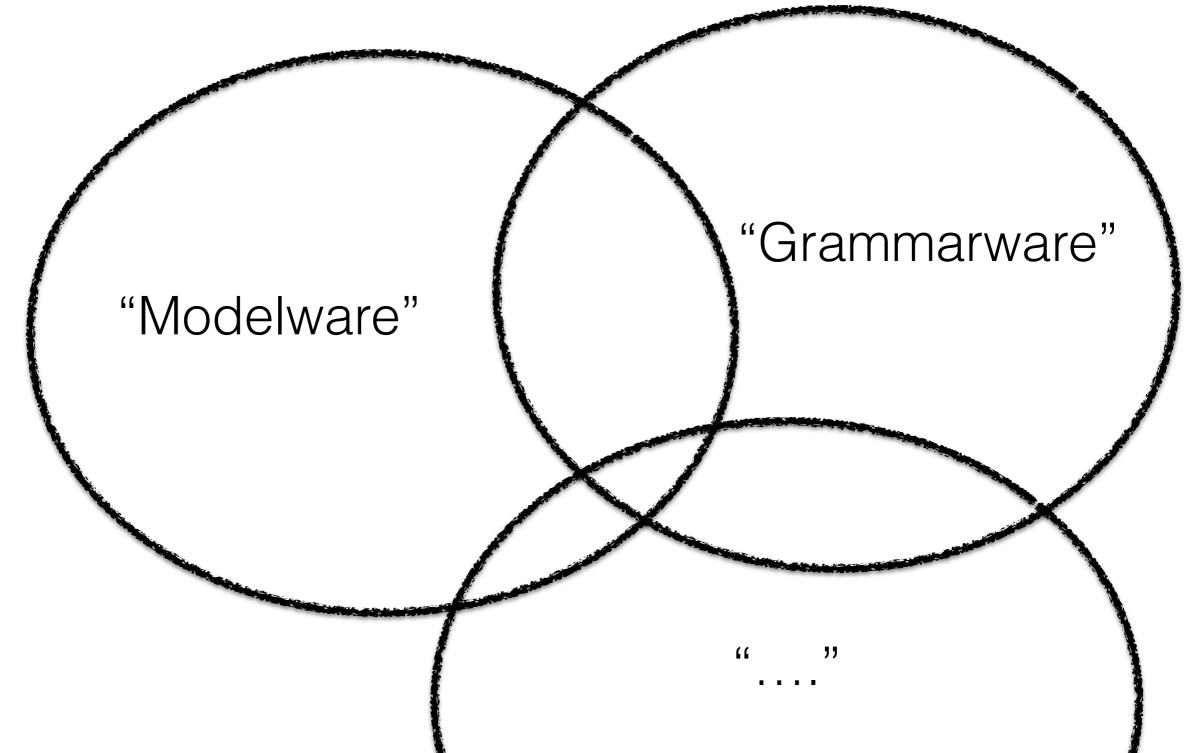
## Rascal-Ecore

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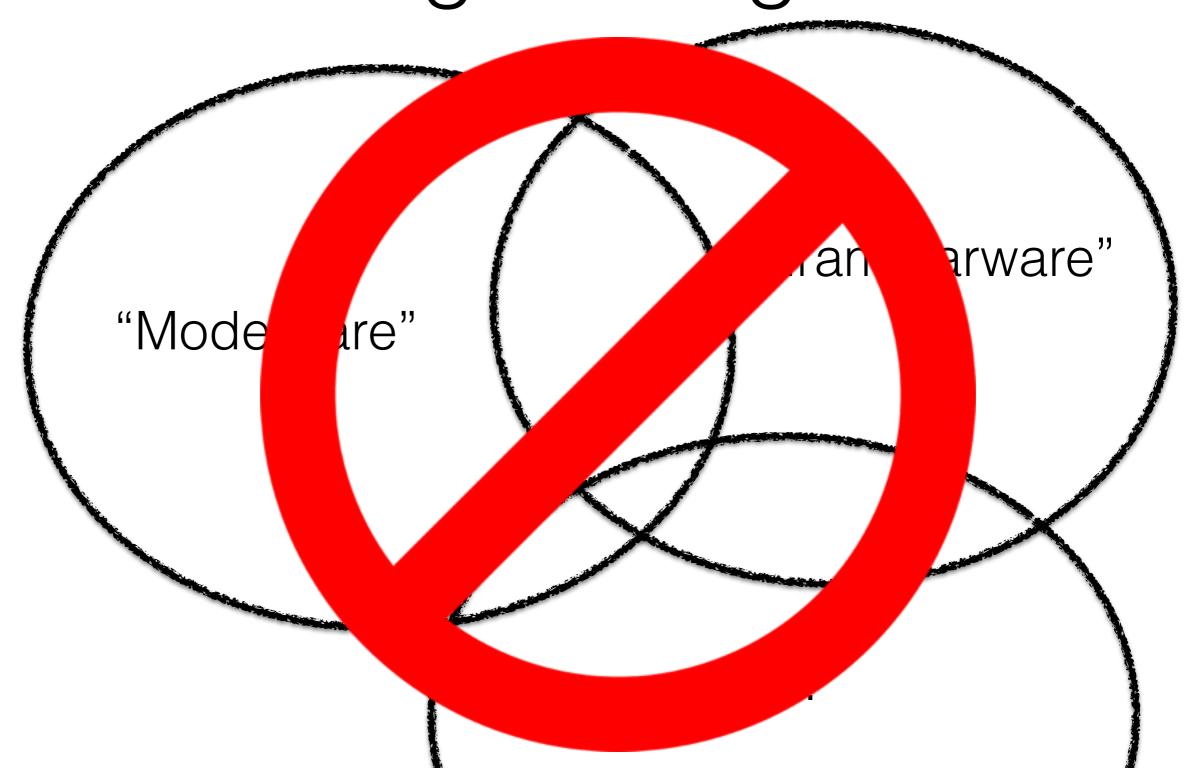




### Software Language Engineering



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- Lots to reuse on both sides of the "divide"...
- *Modelware*: diagram editors, animators, persistence frameworks, etc.
- Grammarware: parsers, editor services, transformation languages, etc.
- Can we map and/or connect?
- Not a new idea!

### Concretely

- Ecore Meta models as Rascal algebraic data types
- Ecore Models as Rascal values
- Why?
  - Make Rascal available to MDE scenarios (e.g., model trafo)
  - Reuse MDE tools in the context of Rascal (e.g., diagram editors, animators, etc.)

#### rascal-ecore

- import/export Ecore meta models and models
- generate ADTs from meta models
- map Rascal defined concrete syntax to models
- infer meta models from annotated Rascal grammars
- generate "HUTN" grammars from meta models
- diff and patch operations on models
- patch of concrete syntax source code

# Live coding

#### rascal-ecore

- tools for processing EMF models in Rascal
- lightweight mapping of concrete syntax and models
- diff/patch supports online synch of actual models