Modeling Java APIs

• Study graphical library JHotDraw – as an example of a programming framework (or find another one)

• Define a domain specific language modeling usage of several JHotDraw API concepts
  – The domain specific language can be seen as a formal version of a collection of cookbooks
  – Use grammars, or class-diagrams/feature models (metamodels) + some constraints to define the DSL

• Implement analyses (AST based, control flow based) detecting some instances of the concepts in existing JHotDraw applications.

• Alternatively: implement generation of code skeletons from models in your DSL.

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