

FAME – a Model-driven Framework

MMS Lecture, March 12, 2008

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Where do we go today?

- O to X mapping
- Meta-modeling in a Nutshell
- X to O mapping
- Hand-on Session
- Meta-model inference

FAME

Framework for executable models.
Available in Java, Python and Smalltalk.

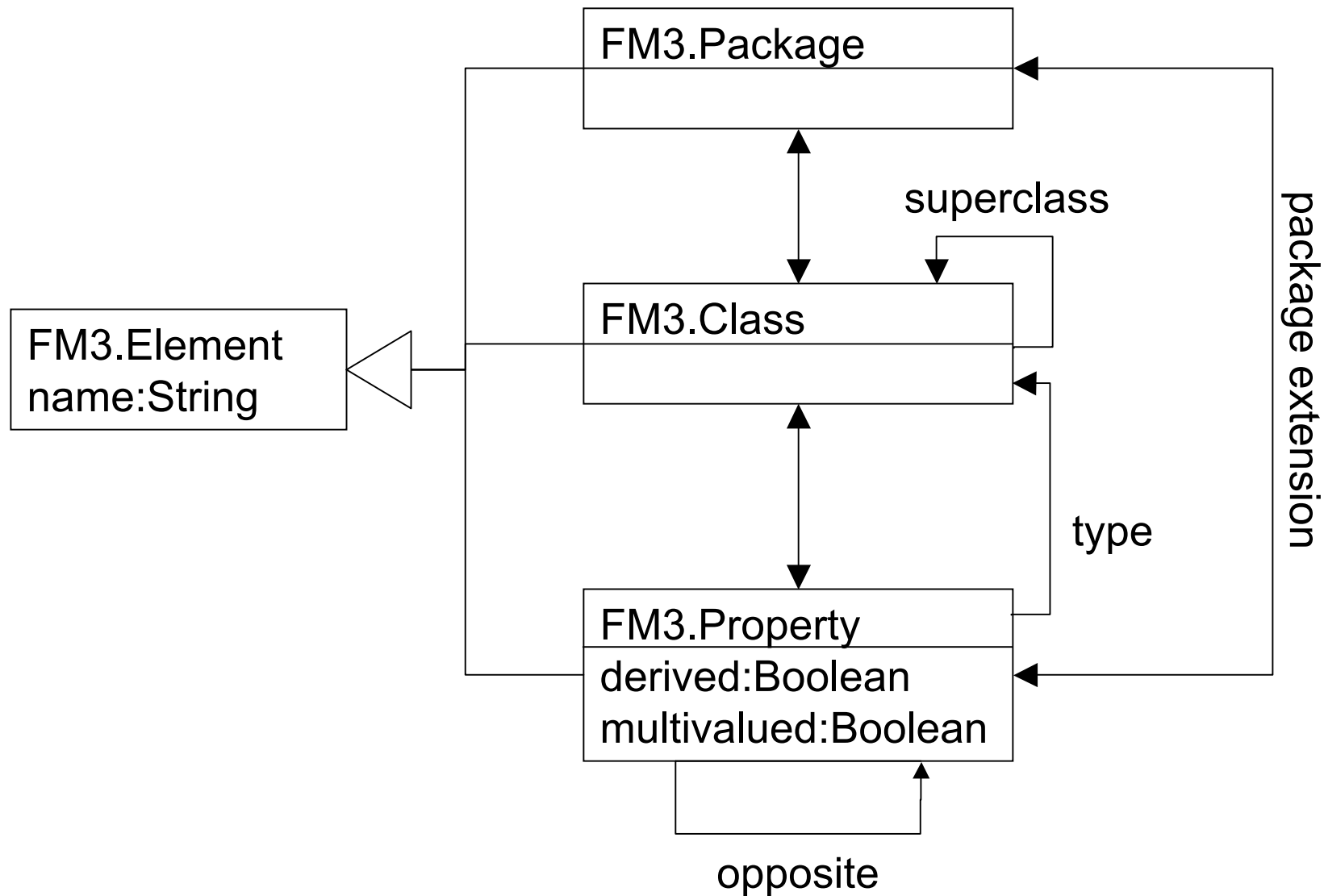
MSE file format

Moose + X-to-O – XML = MSE

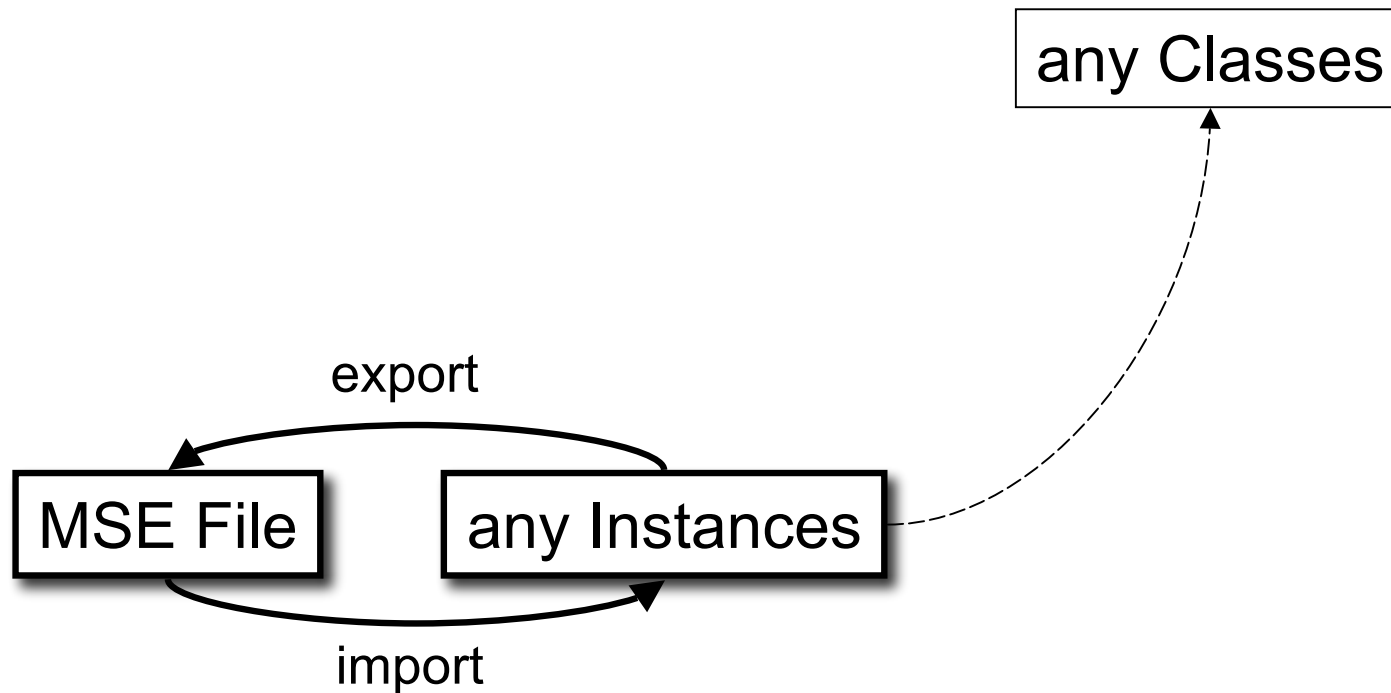
Inspired by Scheme syntax.

FM3

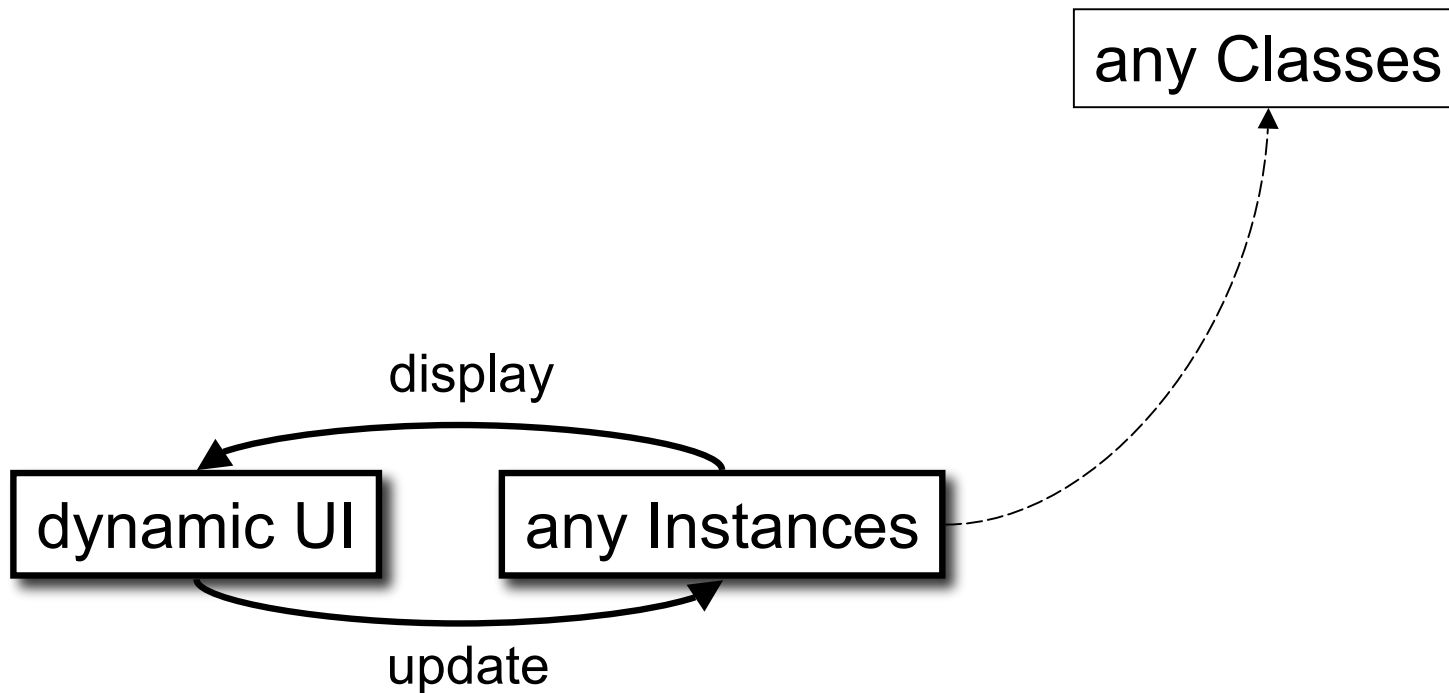
FM3 = FAME Meta-metamodel.
Superset of a subset of EMOF.



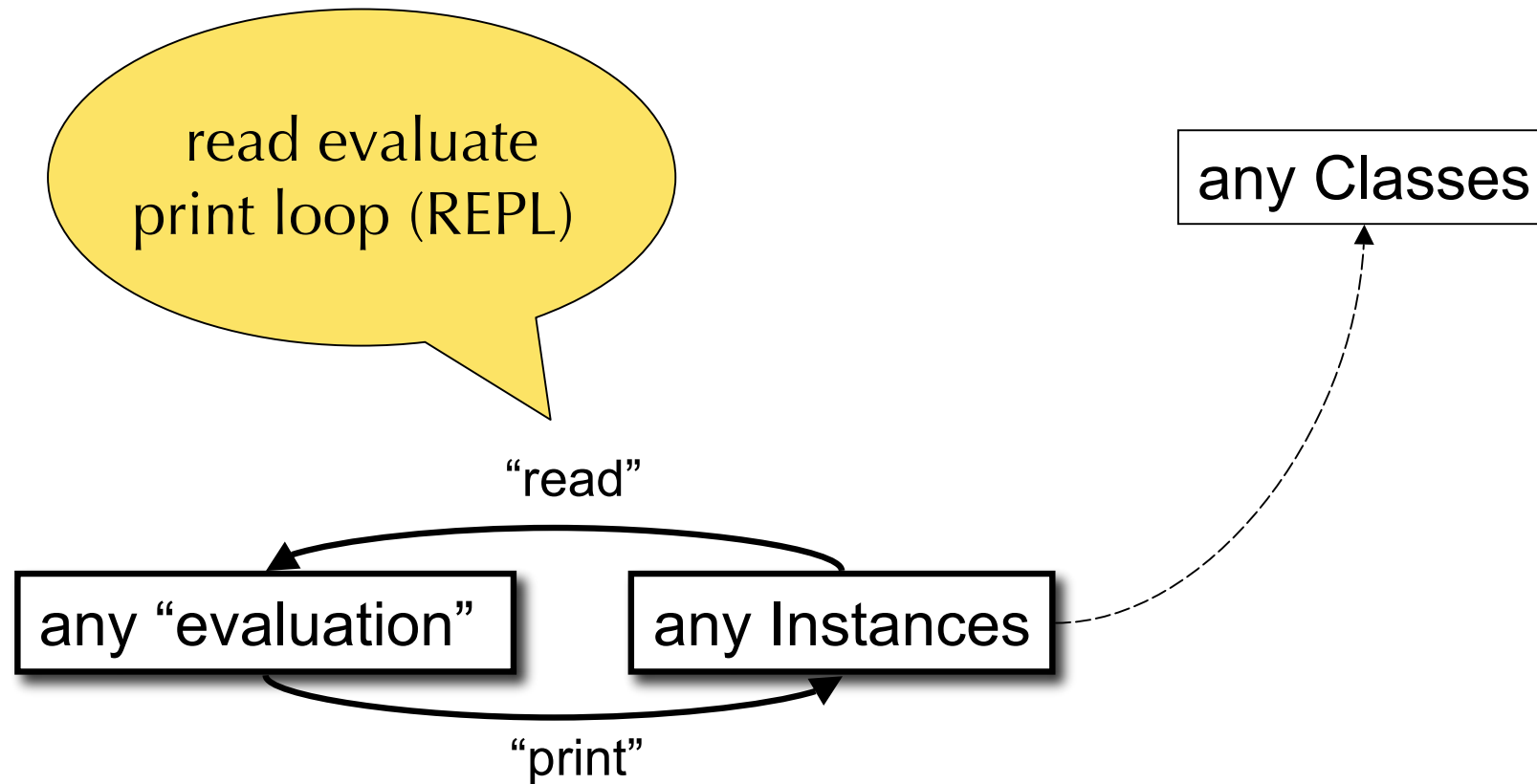
How to exchange **any** data?



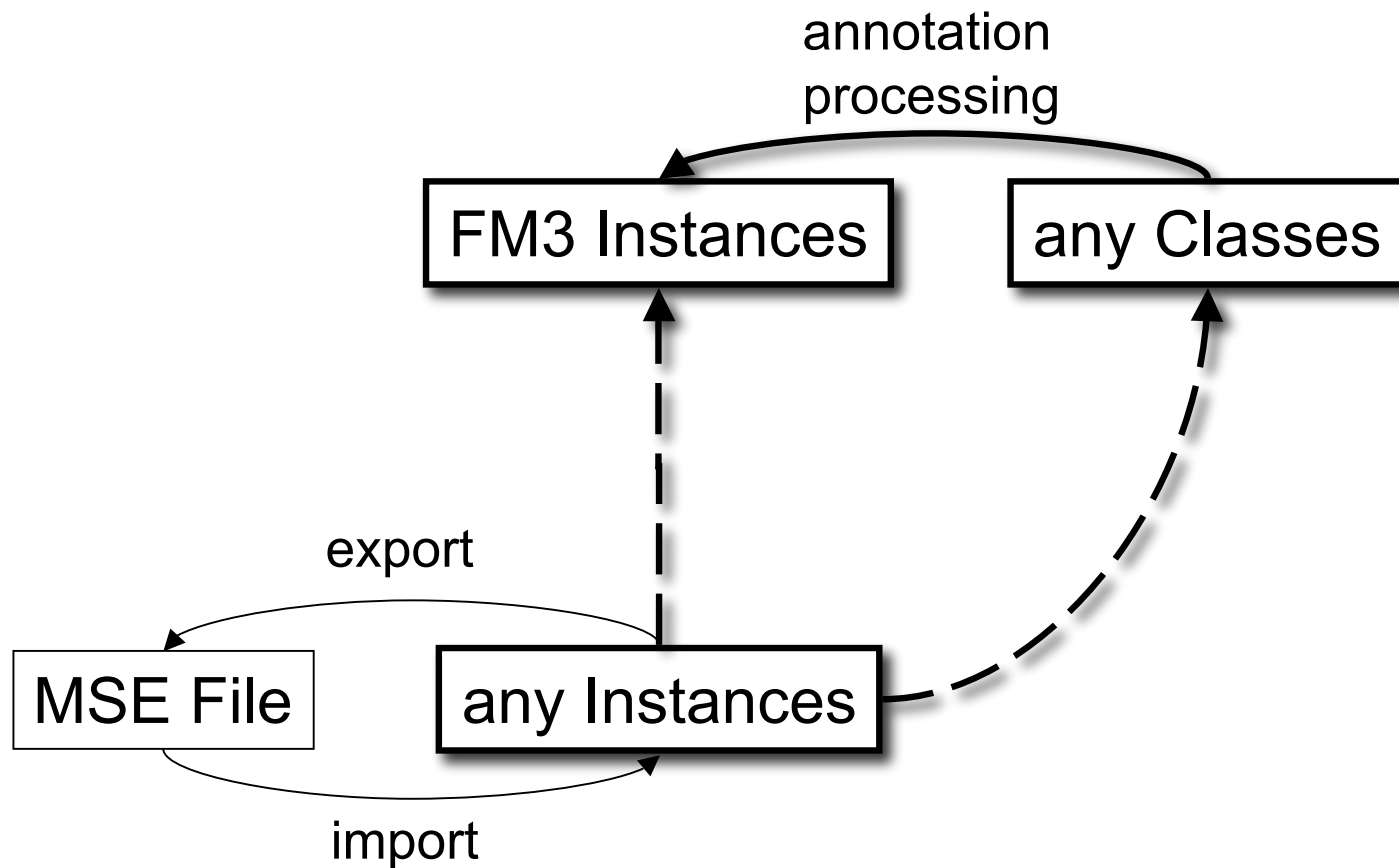
How to exchange **any** data?
How to browse **any** data?



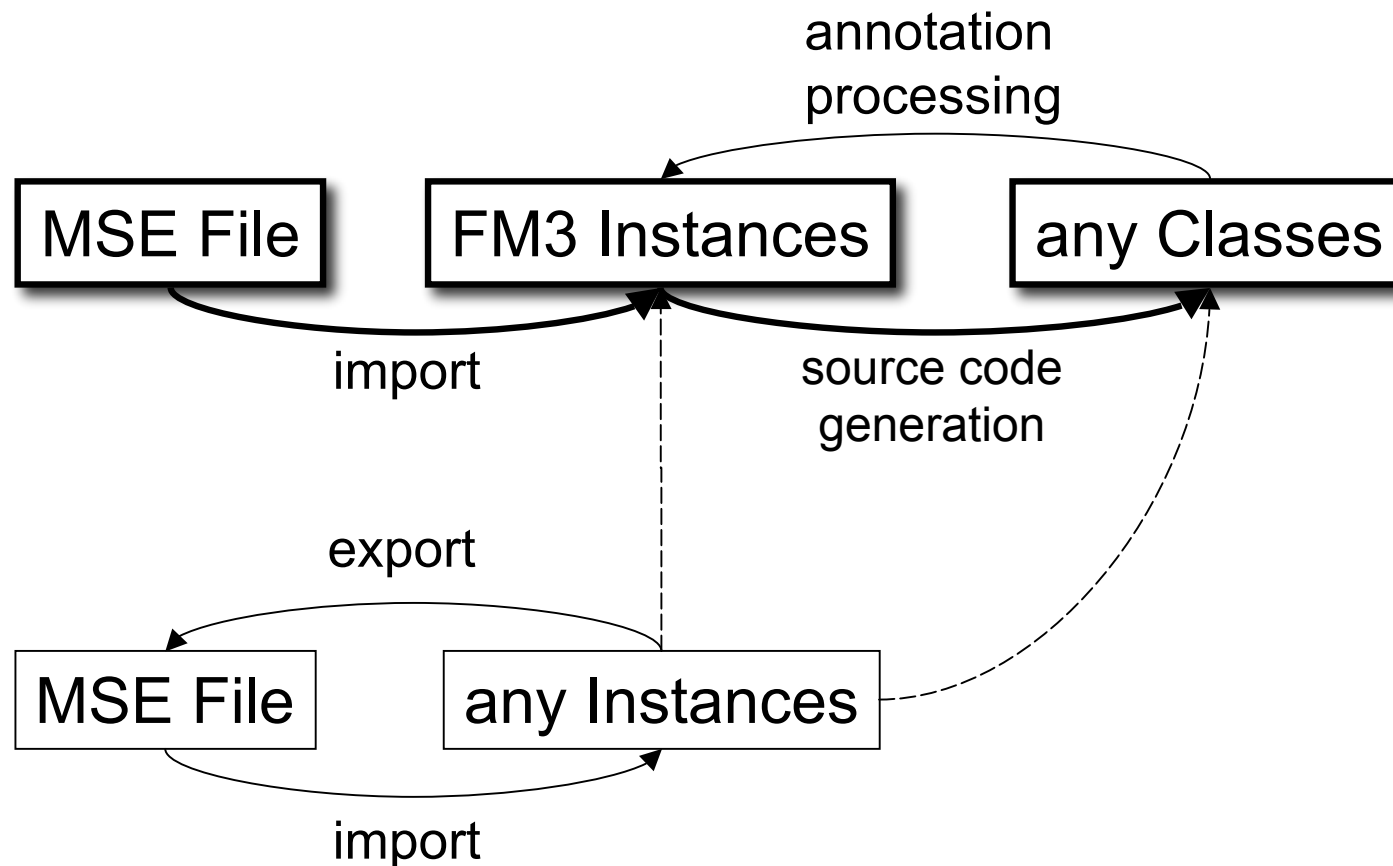
How to exchange **any** data?
How to browse **any** data?
How to ... **any** data?



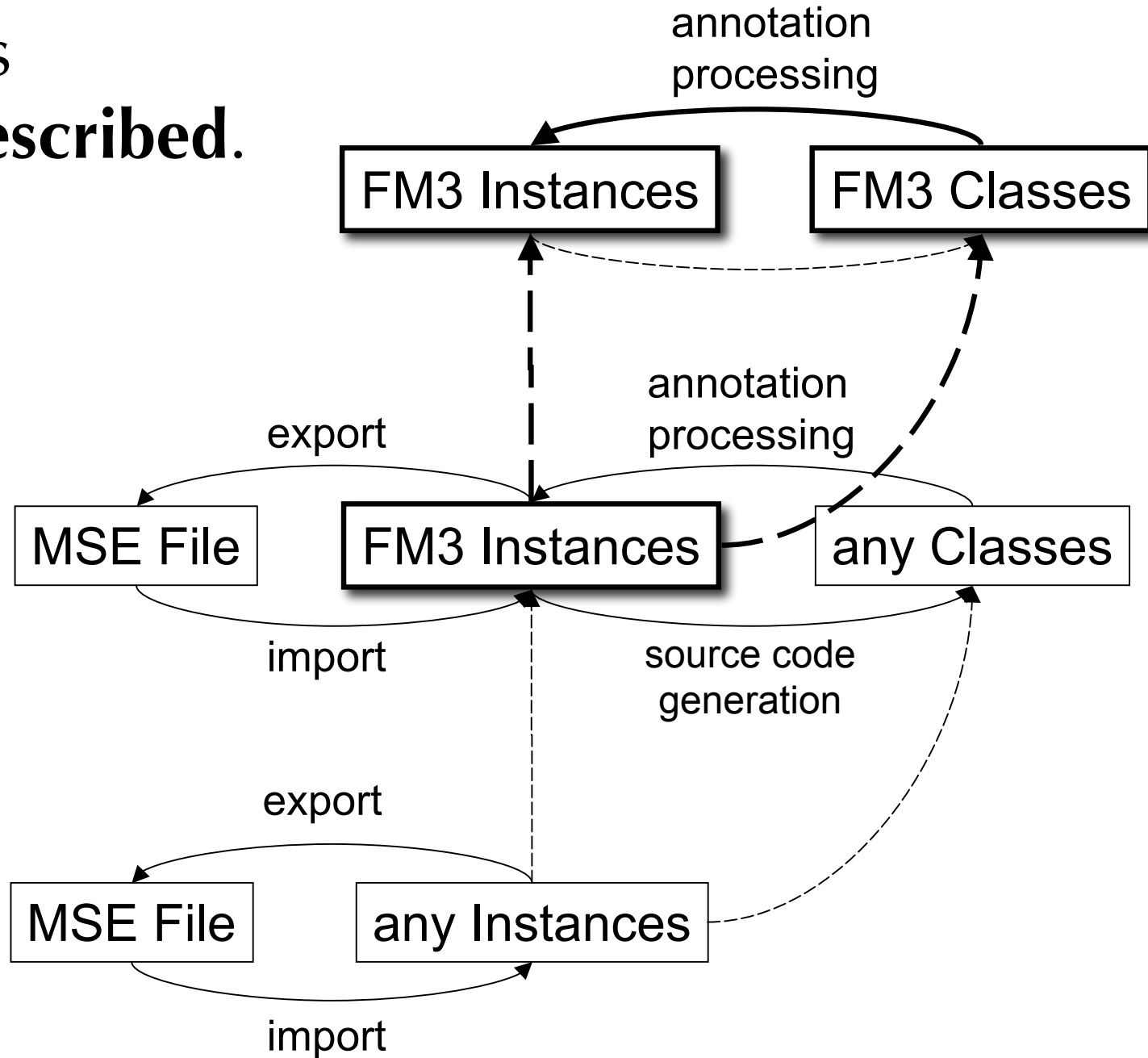
We use runtime **annotation** processing to make the system **self-aware** of its structure.



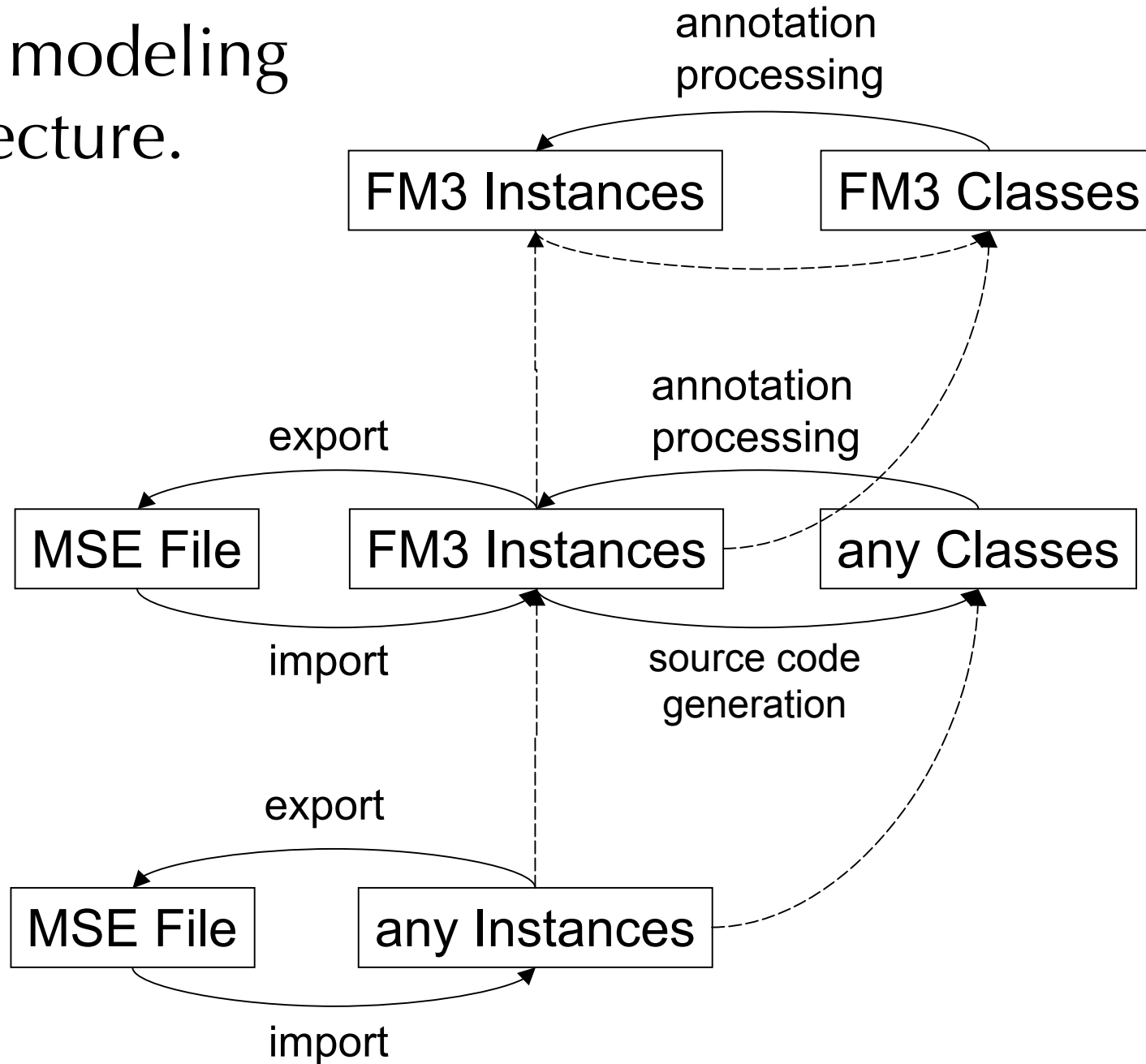
The system can **adapt** to new data using **code generation**. (ie, runtime refactoring in Smalltalk)



FM3 is
self-described.



FAME modeling architecture.



<http://smallwiki.unibe.ch/fame>

See you on the mailinglist...