

SOFA and MELD

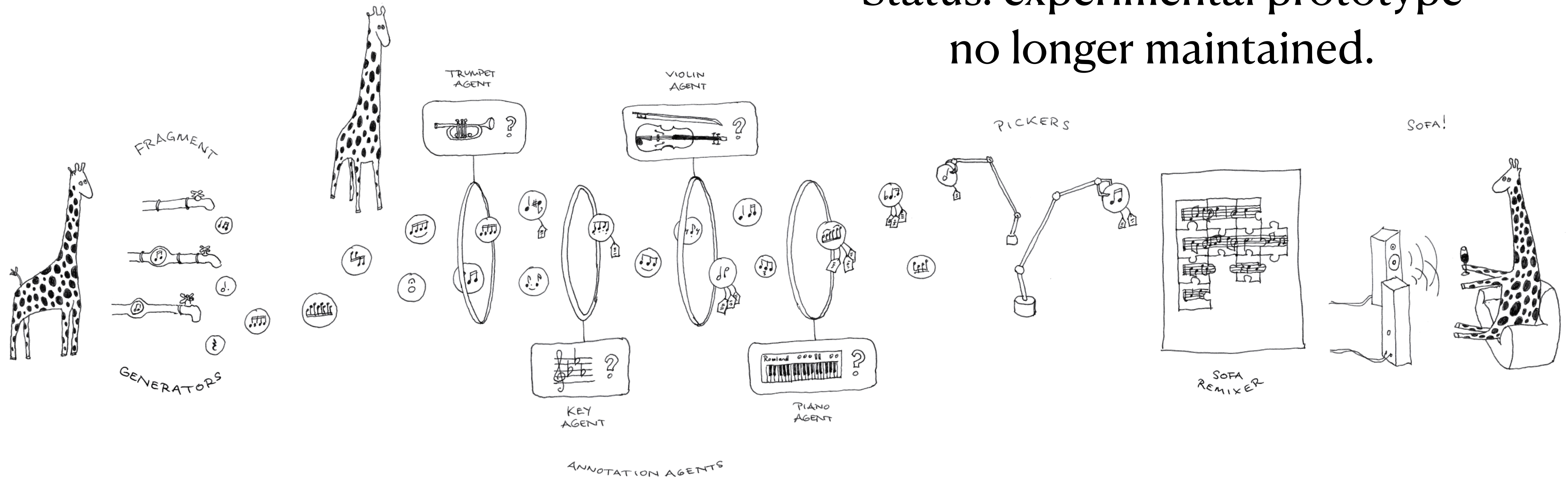
Introducing use of the MELD framework by SOFA

Graham Klyne - 2020-10-06

What is SOFA (1)

SOFA Ontological Fragment Assembler (SOFA) is an application for assembling elements, or “fragments”, into a composed whole.

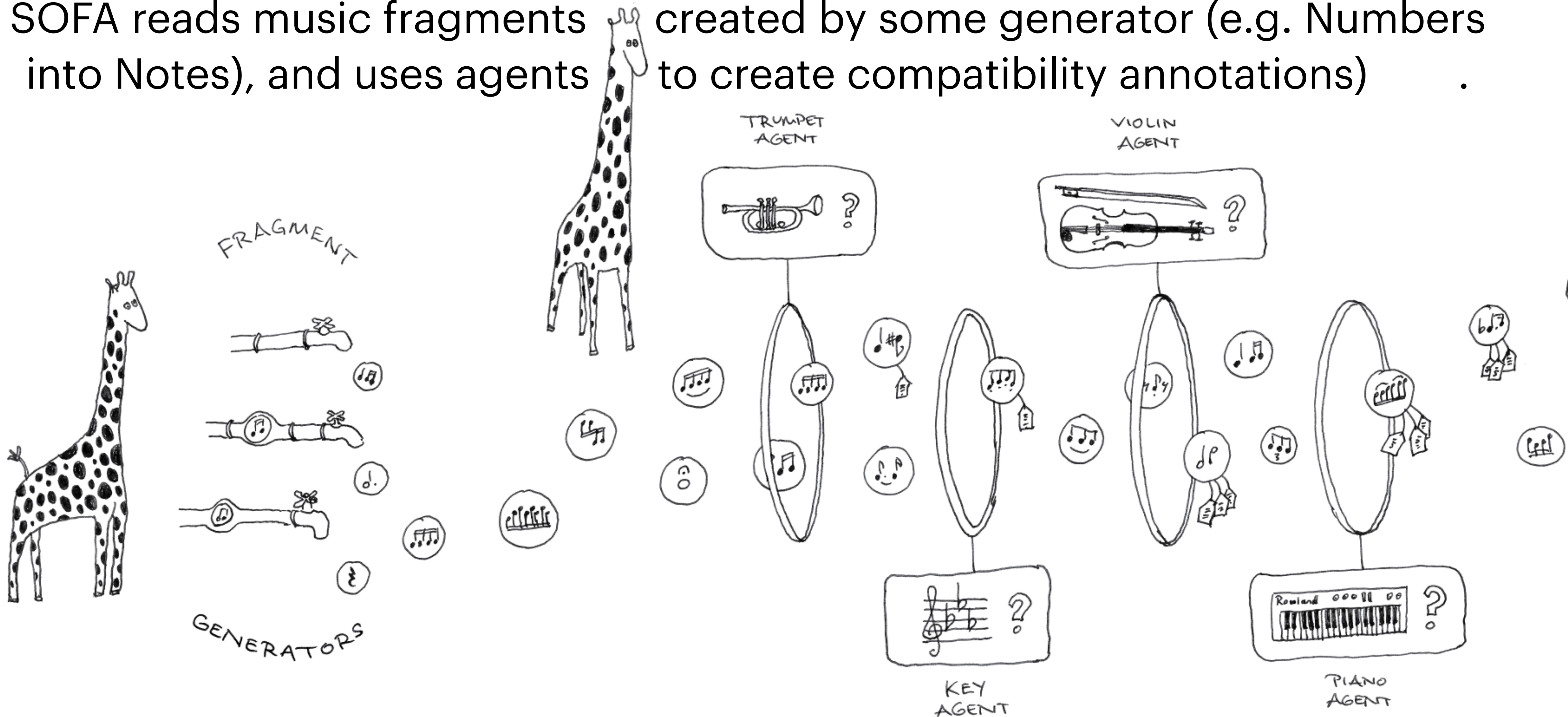
Status: experimental prototype
no longer maintained.



BEHIND THE SCENES AT THE SOFA REMIXER

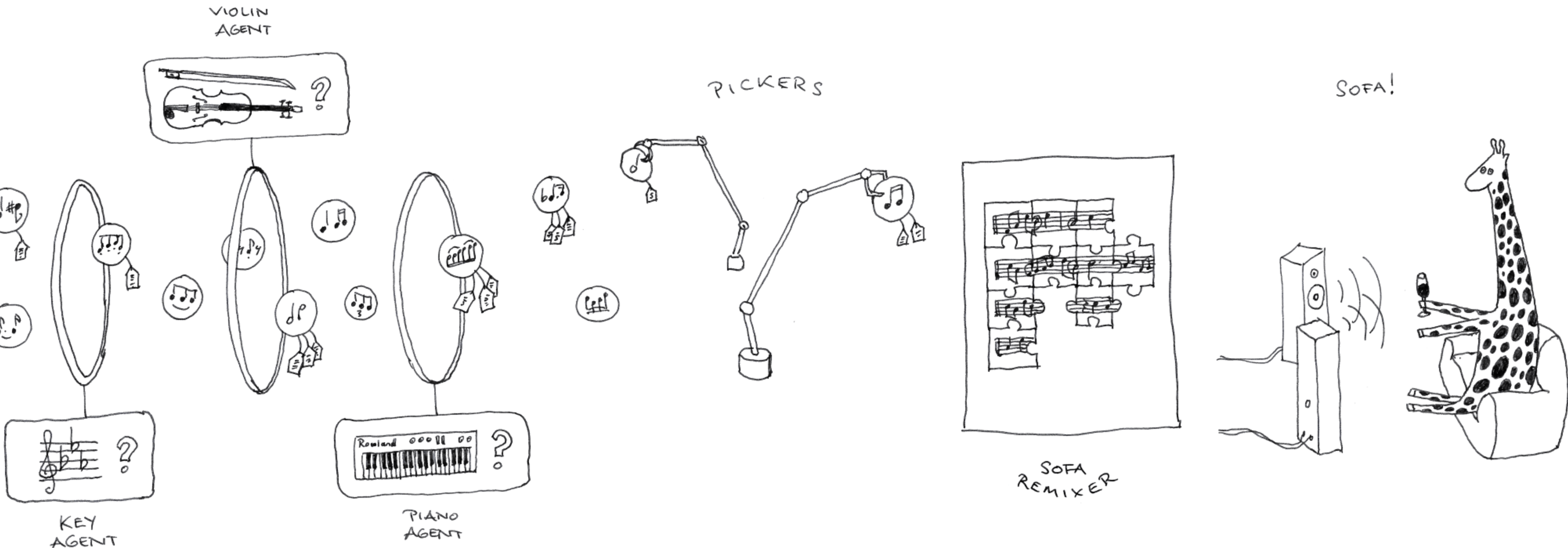
What is SOFA (2)

SOFA reads music fragments created by some generator (e.g. Numbers into Notes), and uses agents to create compatibility annotations.

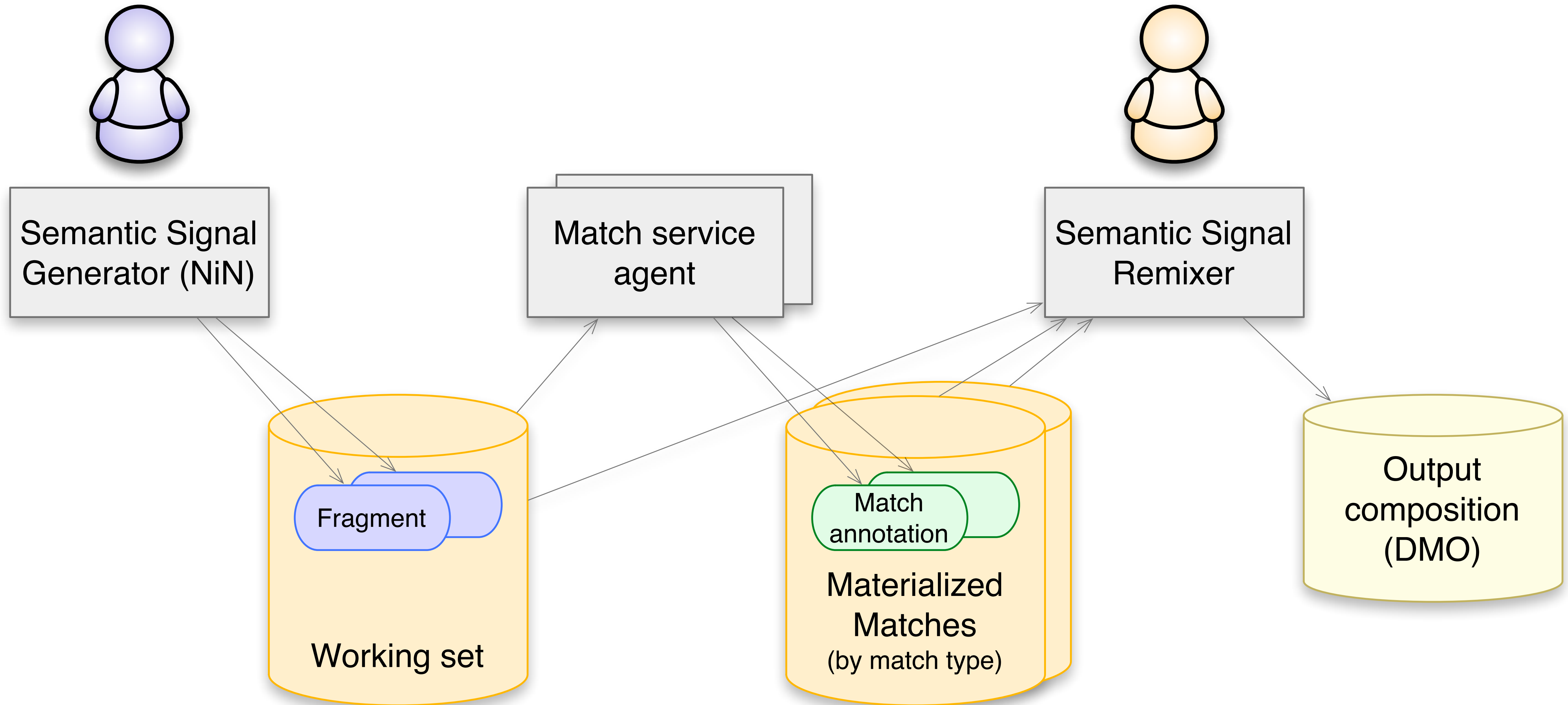


What is SOFA (3)

SOFA also provides an interface for guided assembly of the fragments into musical compositions, based on the compatibility annotations

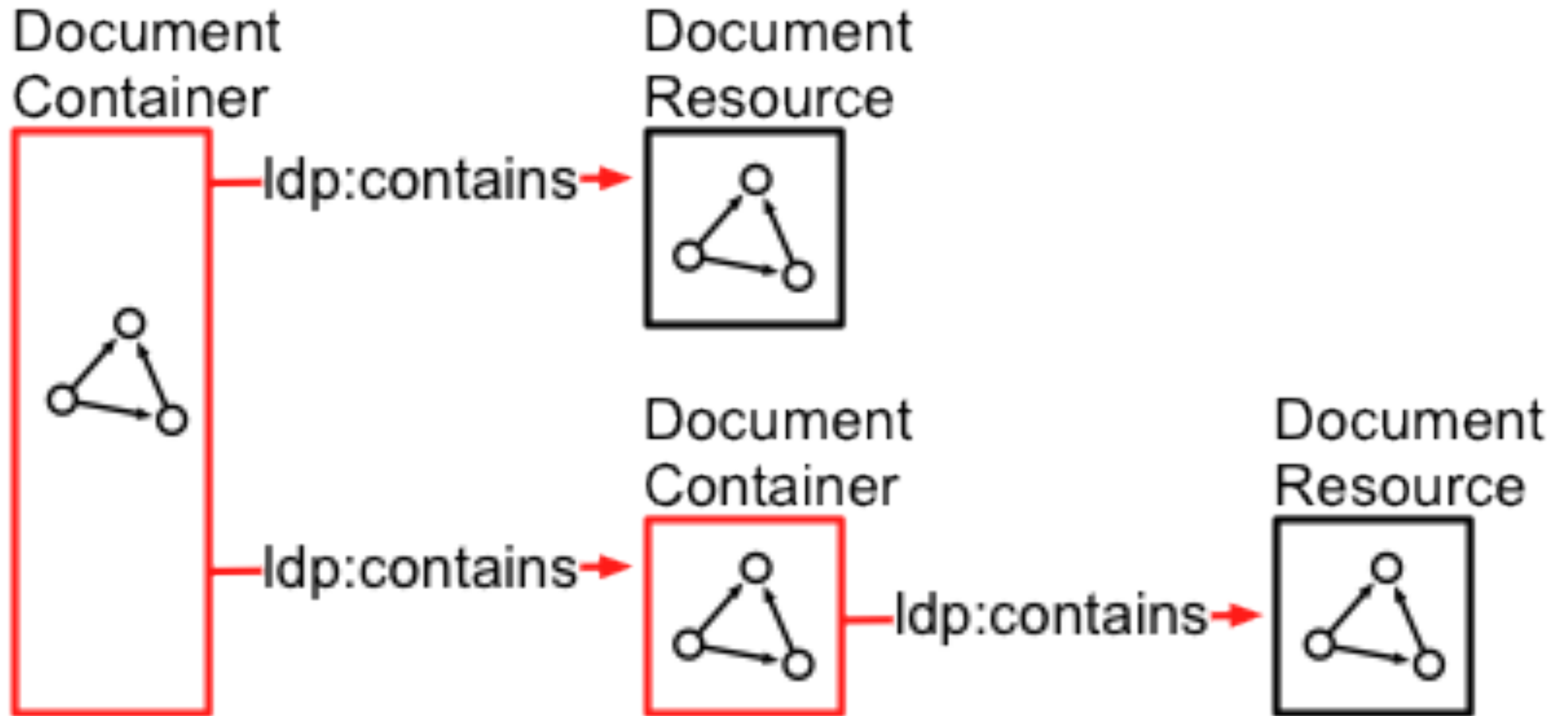


How does SOFA work?



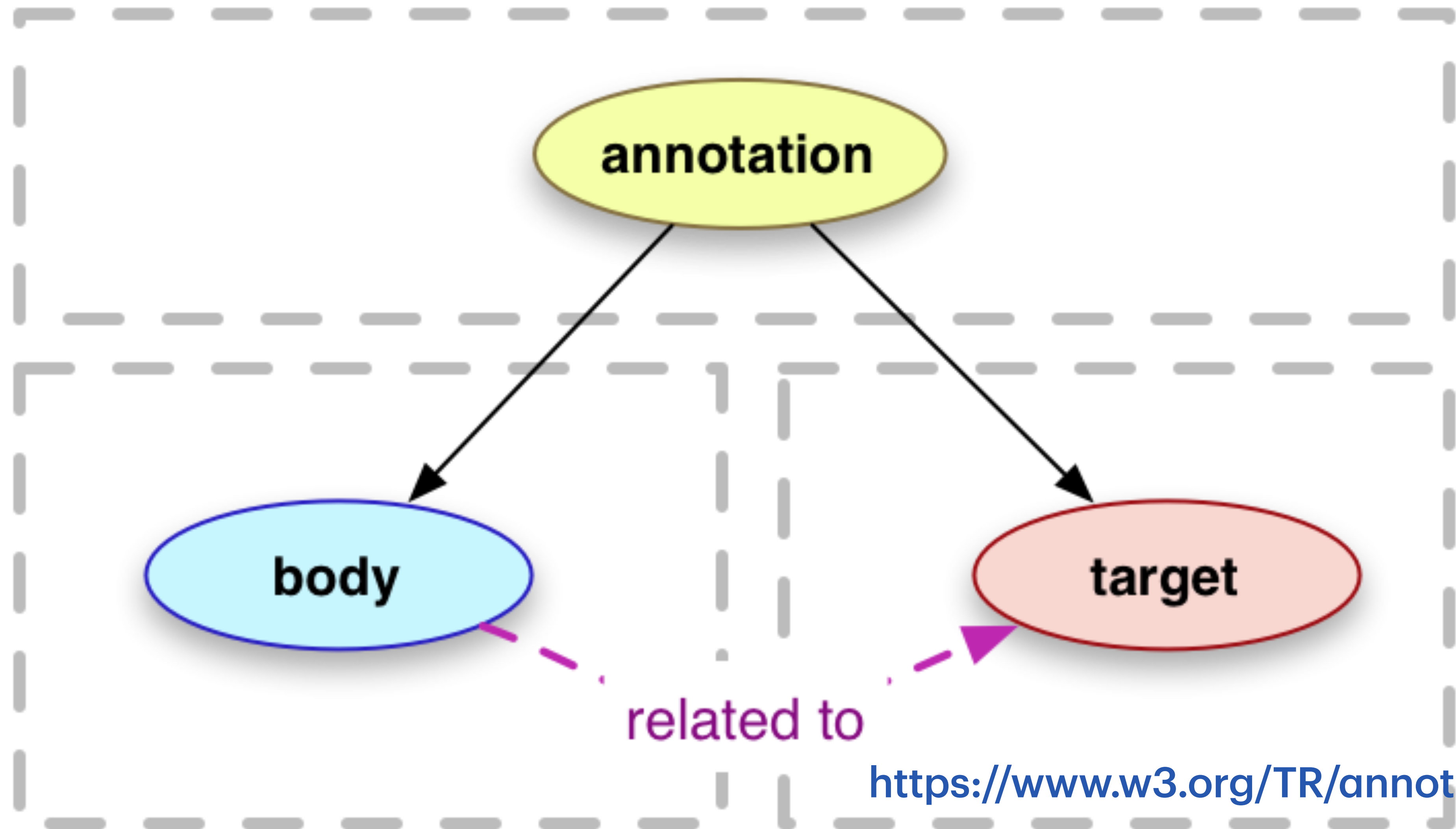
MELD elements (1)

Linked Data Platform containers



MELD elements (2)

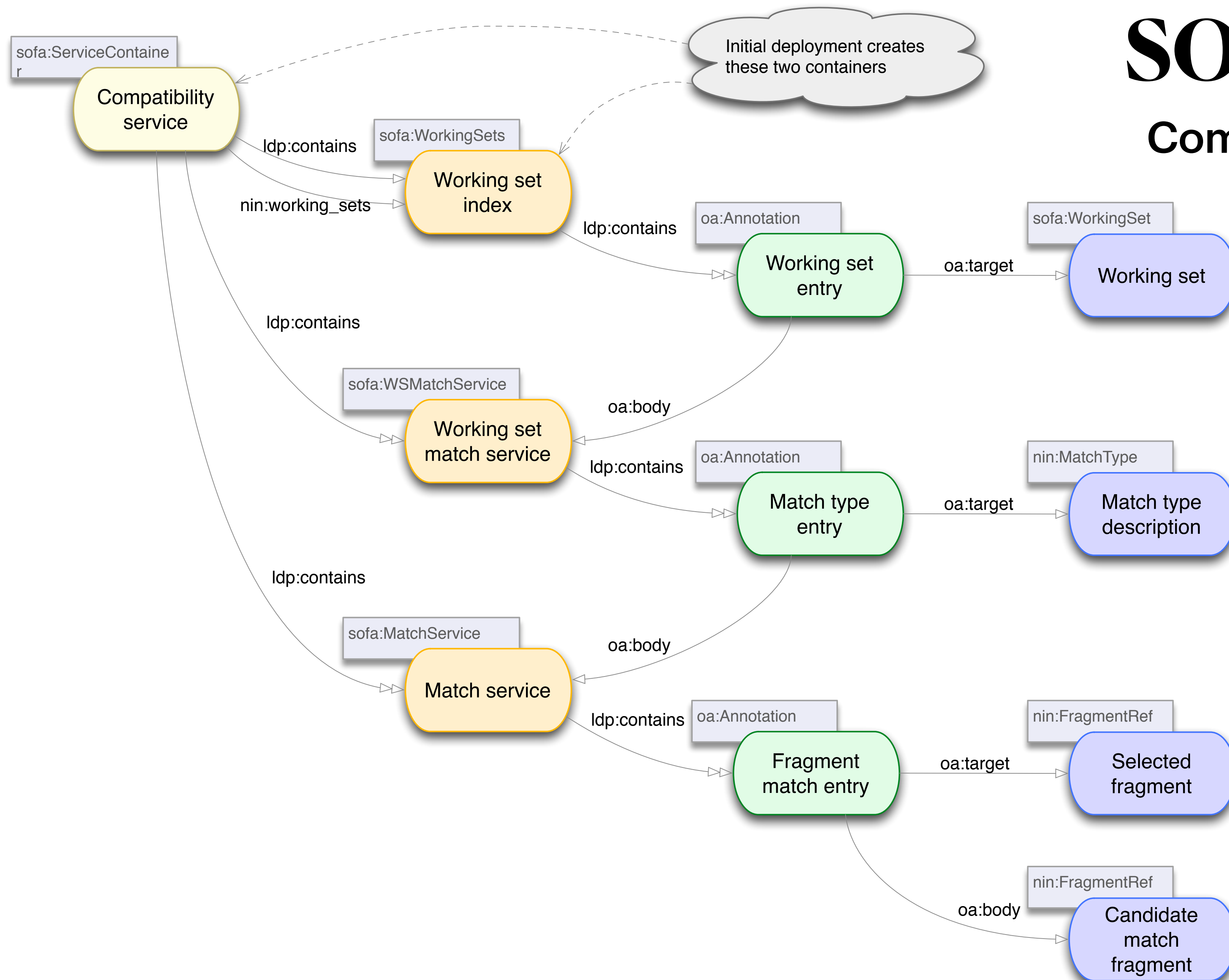
Web Annotations



<https://www.w3.org/TR/annotation-model/>

SOFA use of MELD

Compatibility service data model

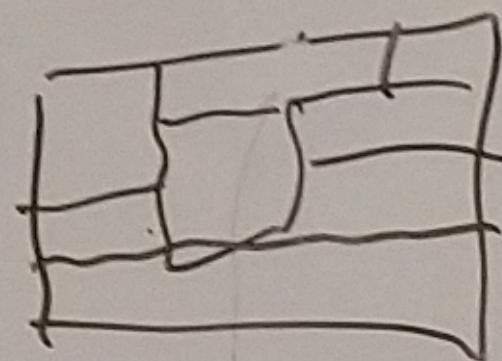


SOFA outputs

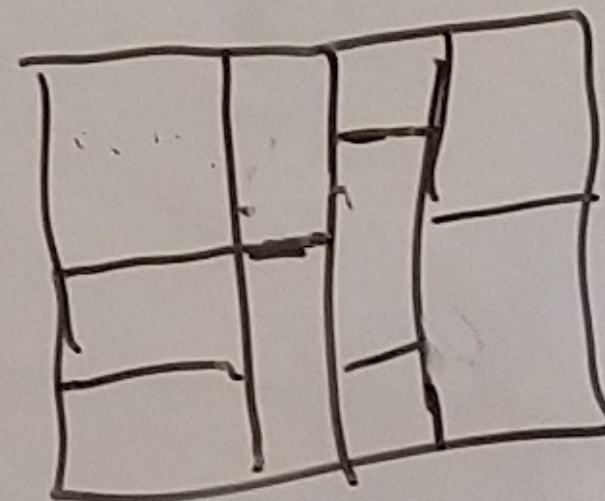
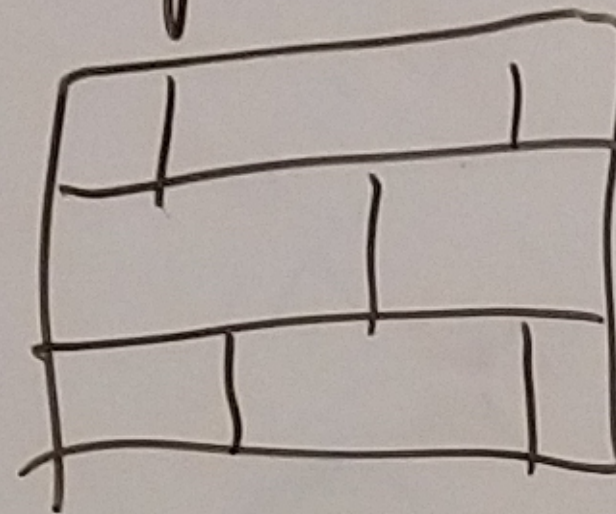
Quilts, grids and sequences: SOFA generates grids and/or sequences

Container

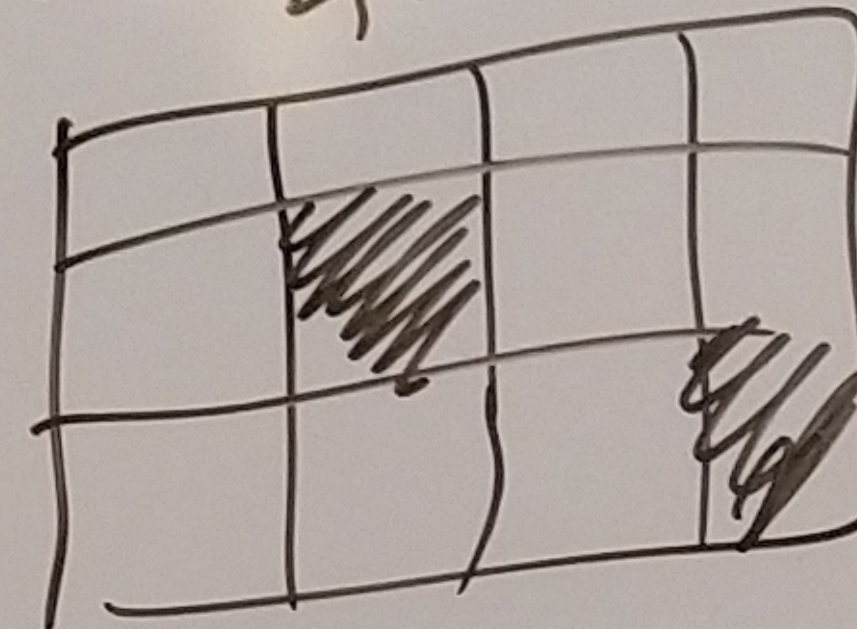
Quilt



Col[*]
sequences



Sparse
Grid



Grid

