

Entity Relationship Modelling the Identities of Things

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2014-08-07

Scott's "Venn" Diagram

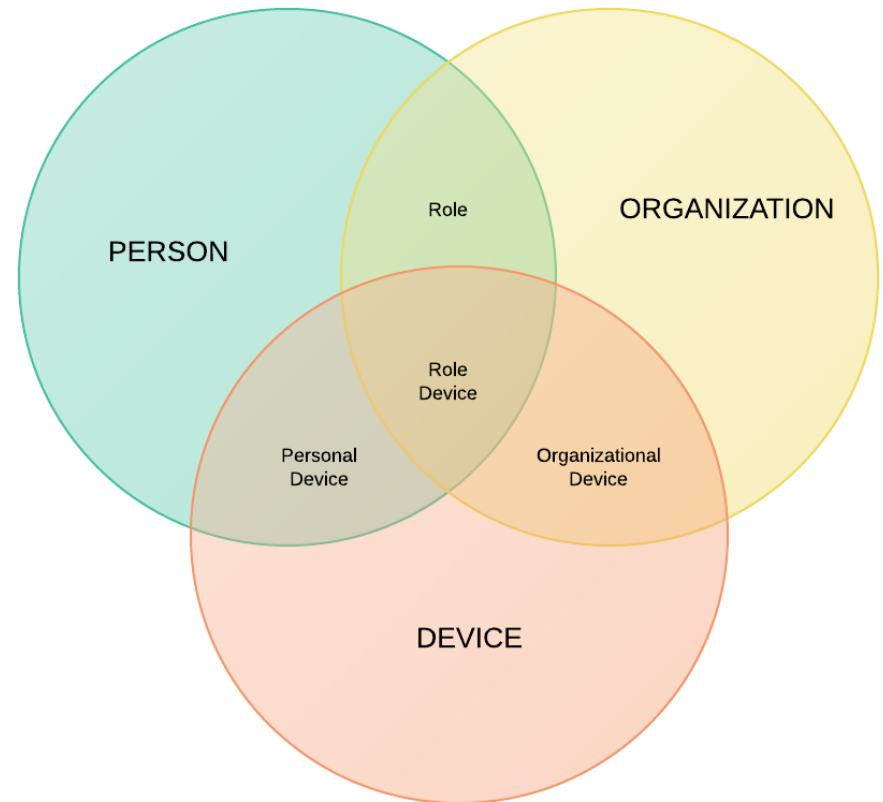
Inspired by Sal D'Agostino's June 2014 contribution to WG-UMA
Sent to WG-UMA and to DG-IDOT in July 2014.

Not actually a Venn diagram – otherwise a
"Personal Device" would be both a Person
and a Device.

The circles reflect entity types: PERSON,
ORGANIZATION (ORG) and DEVICE.

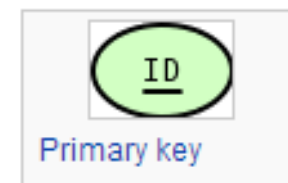
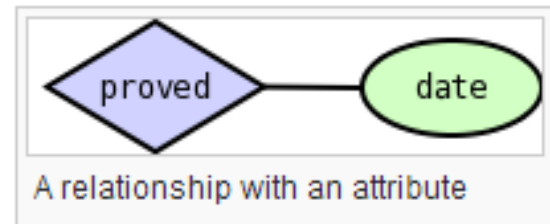
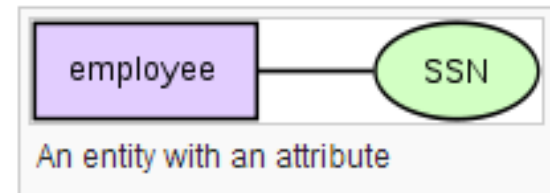
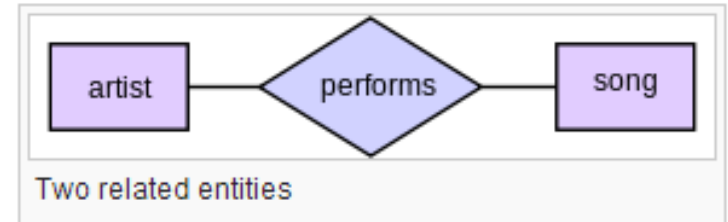
Intersection regions represent *relationships*
between entities – a ROLE is a relationship
between the PERSON filling the role and the
ORG.

Given that we're describing entities and
relationships, let's try **entity relationship
modeling** instead.



Entity Relationship Models

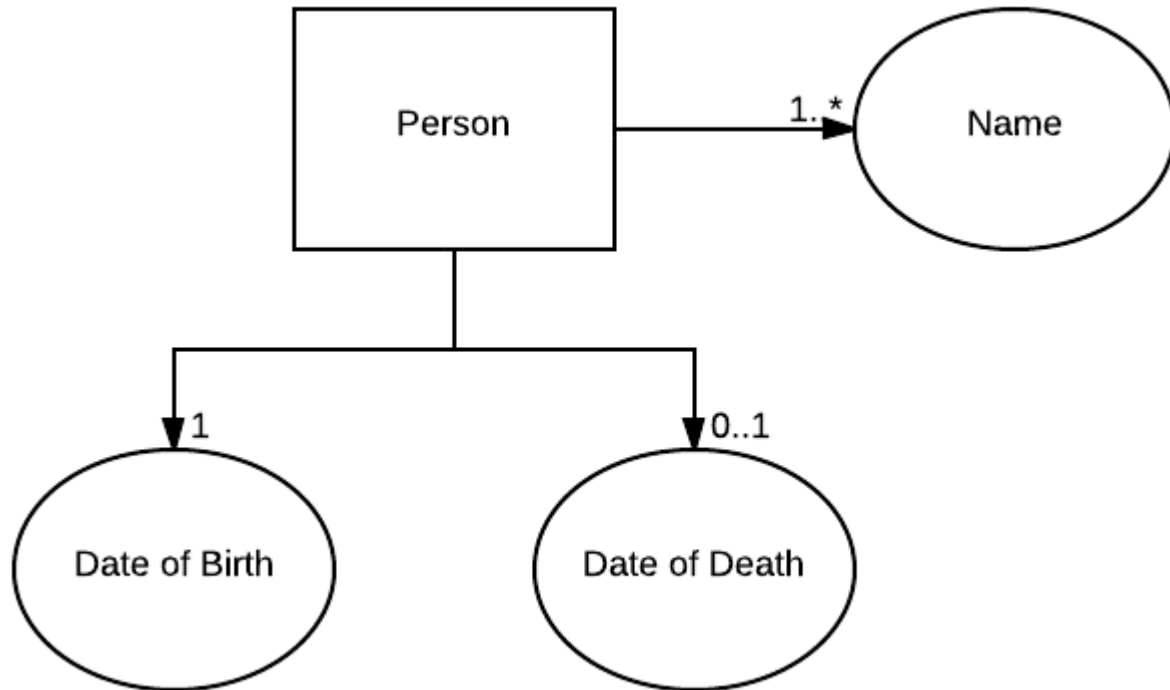
Entity Relationship Models are used business process engineering and software engineering. These examples give the basic syntax used in this presentation.



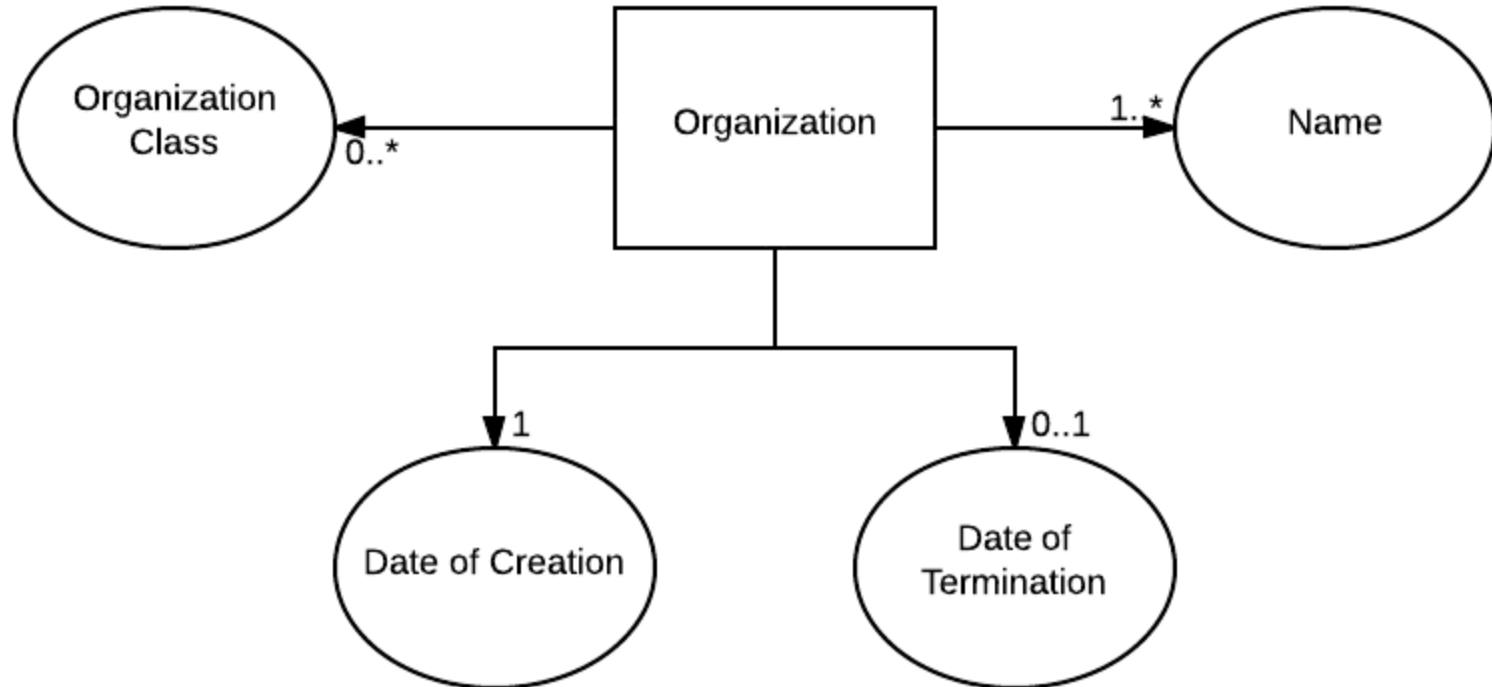
Source:

http://en.wikipedia.org/wiki/Entity%E2%80%93relationship_model

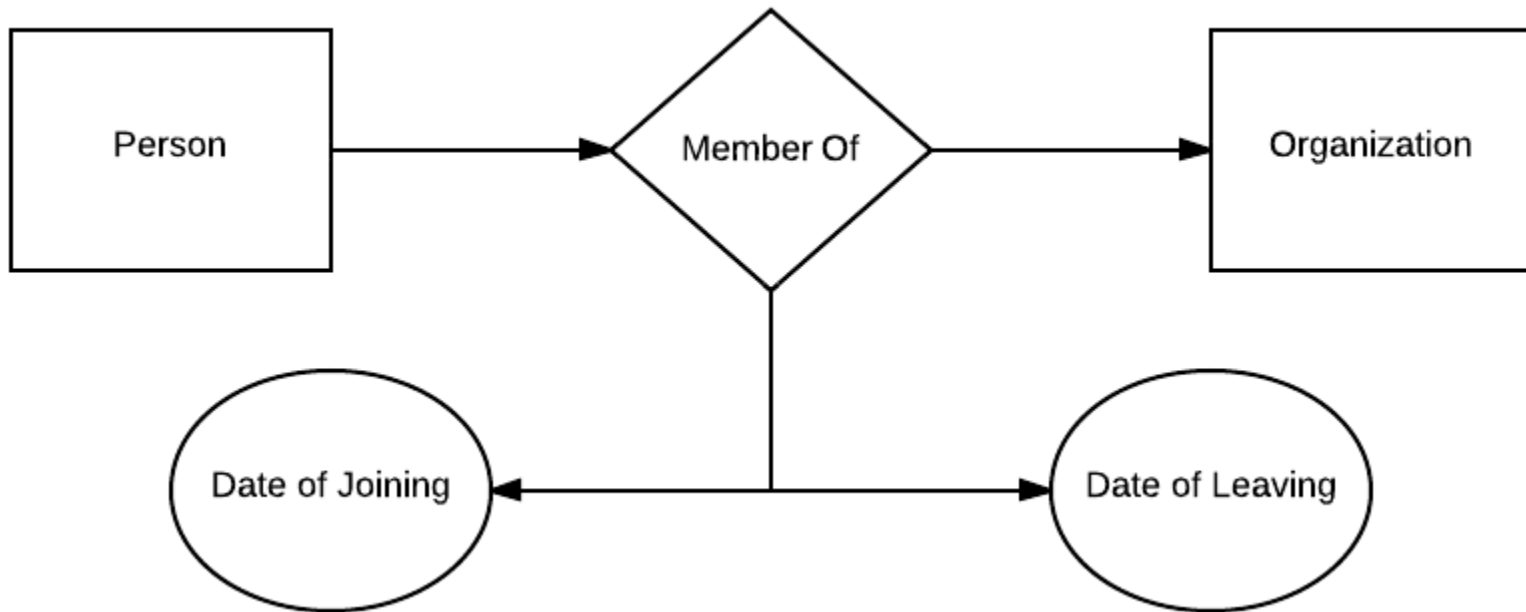
Person



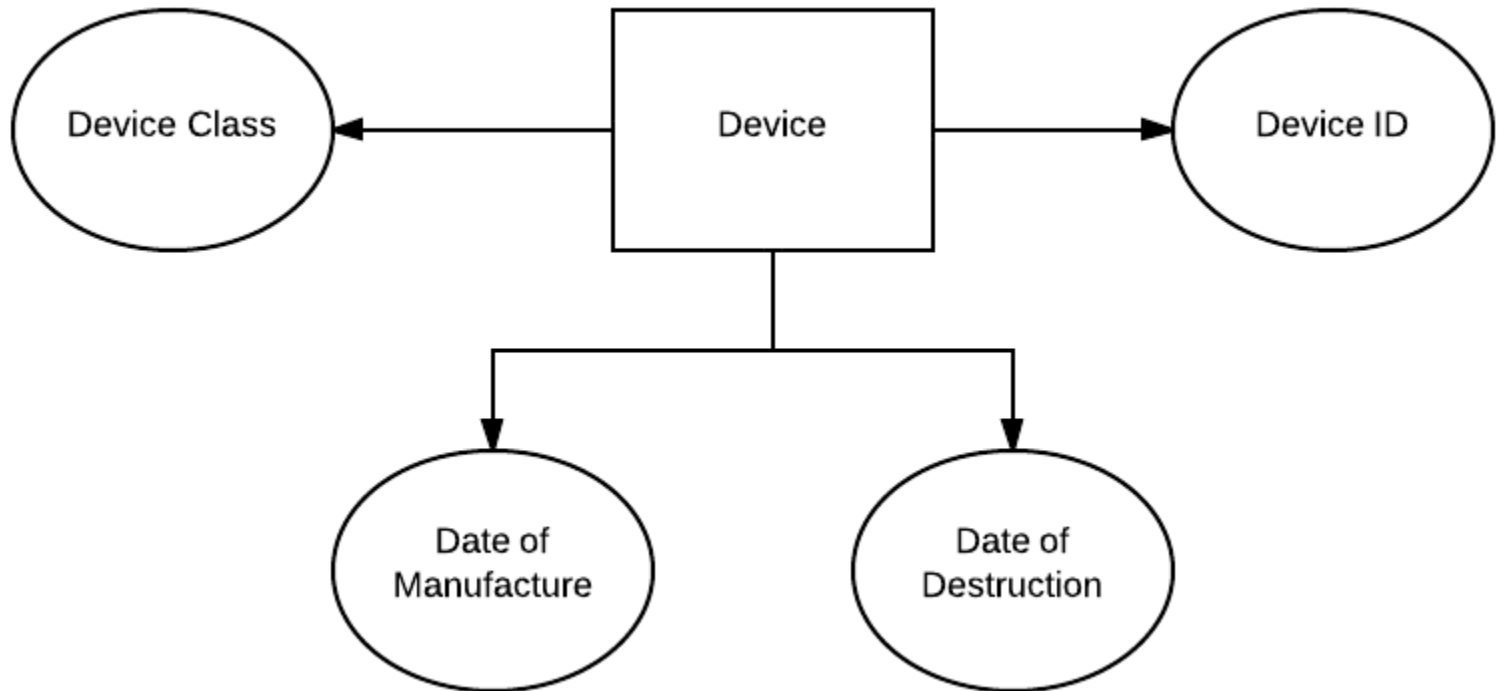
Organization



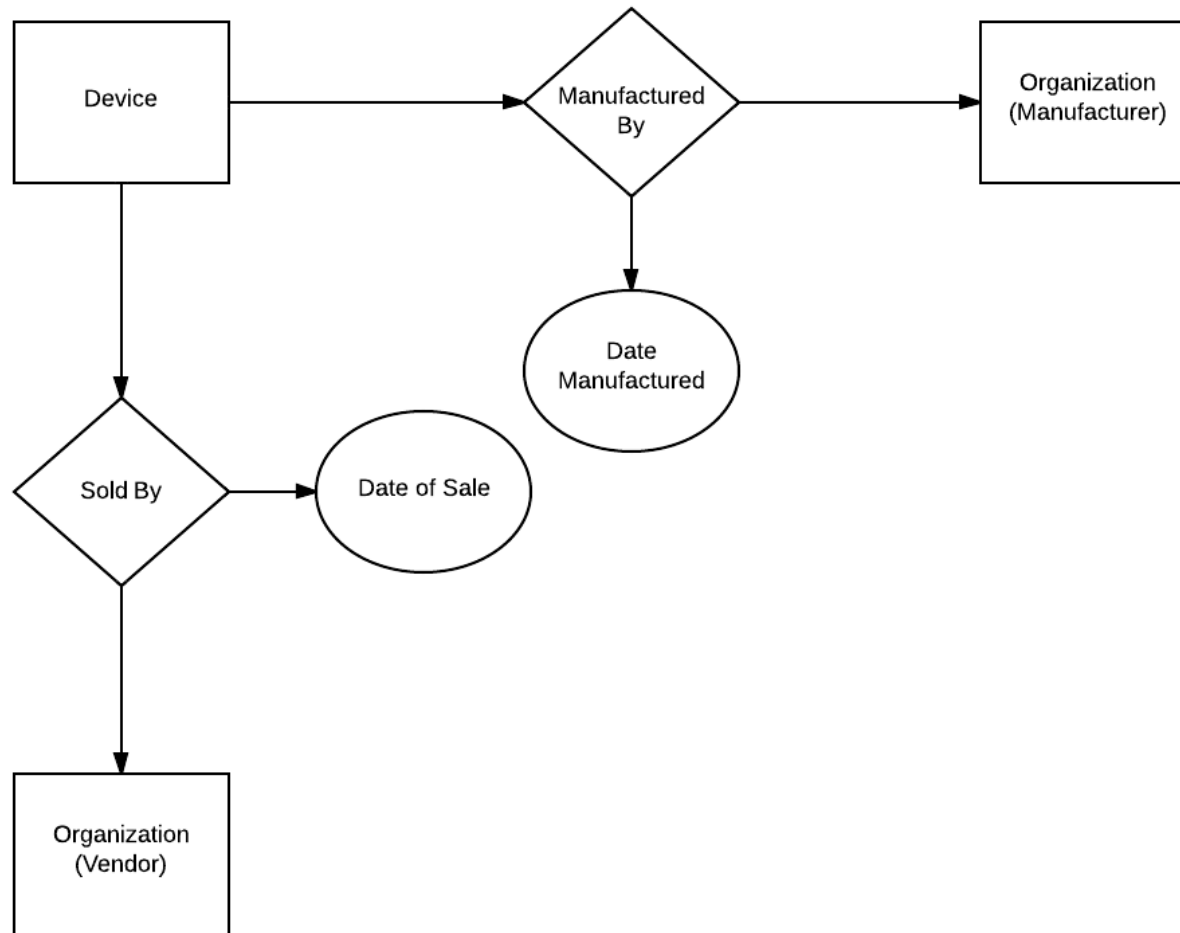
Organization Membership Relationship



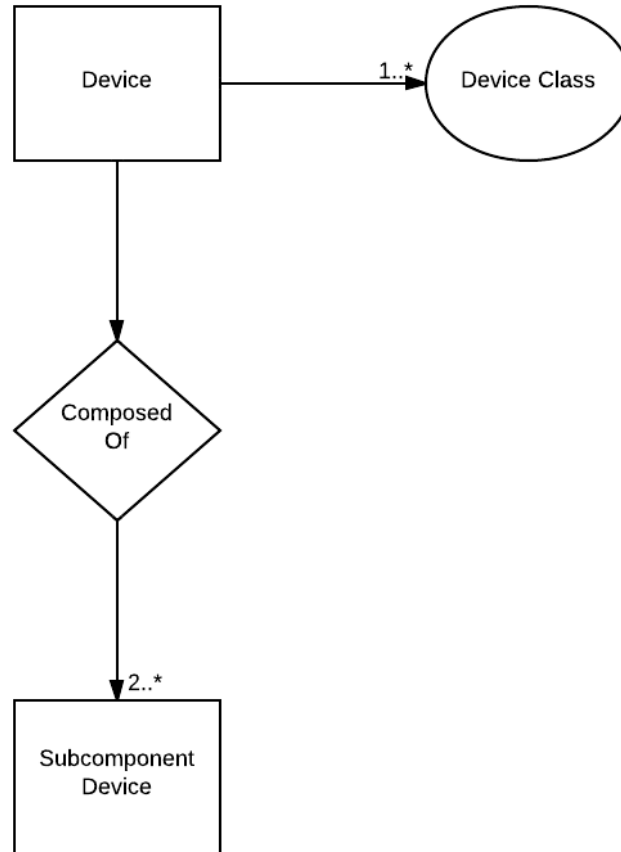
Device



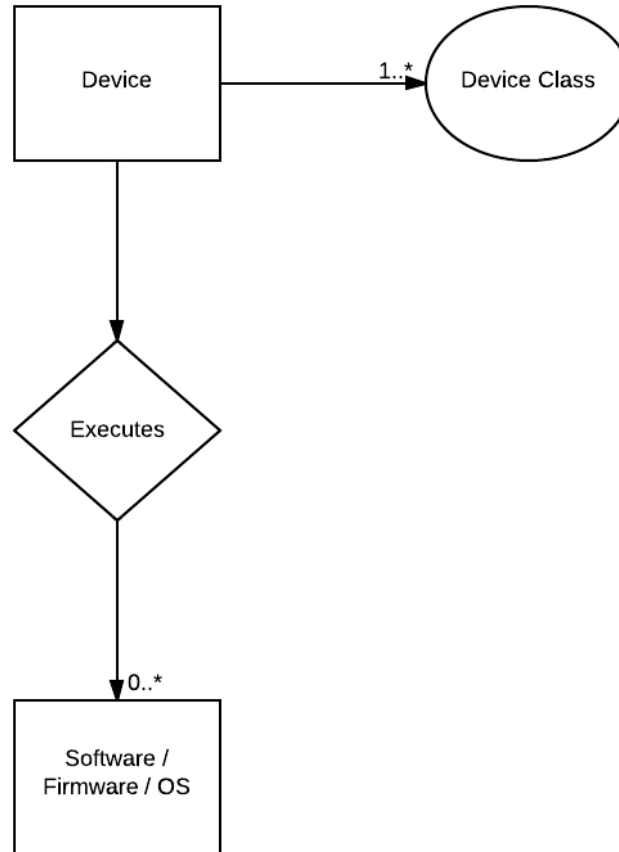
Device Manufacture and Sale



Device Decomposition



Device Software Execution



Device Ownership

