

Photos of cats, Chubby the cat, London cat photos, My photos from 2017

1 *Messy data can be organised into a series of tags and put into a spreadsheet*

<b>ID</b>	Chubby.001.jpg
<b>Creator</b>	Kristen Schuster
<b>Location</b>	London
<b>Name</b>	Chubby
<b>Subjects</b>	Cats — pictorial works, fire engines
<b>Date</b>	September, 2017

2 *Organising content with a series of tags can help us identify how we would like to structure our data using a technical standard like XML*

```
<photo>
<id>Chubby.001.jpg</id>
<creator type="personal">
  <display>Kristen Schuster</display>
  <firstName>Kristen</firstName>
  <lastName>Schuster</lastName>
</creator>
<location type="taken">
  <display>London</display>
  <location source="TGN" id="7013066">
    London (inhabited place)
  </location>
</location>
<subjects type="descriptive">
  <subject source="LCSH" id="sh2008100217">
    cats—pictorial works
  </subject>
  <subject source="AAT" id="300212734">
    fire engines
  </subject>
</subjects>
<date type="taken"> September, 2017</date>
</photo>
```

3 *We can take our idiosyncratic schema and map it onto a widely adopted standard like Dublin Core*

## Transforming 'messy data' into structured data using schema and metadata standards

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**Start here!**

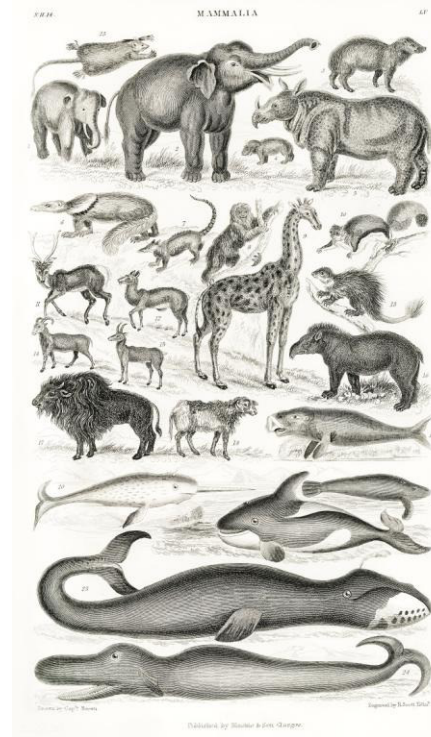
*Say you have a collection of photos, and you know how they are organised, and why you have kept them (out of all the possible photos you have taken). Now you need to organise*

```
<dc:creator>Kristen Schuster</dc:creator>
<dc:date>September, 2017</dc:date>
<dc:coverage>London</dc:coverage>
<dc:identifier>Chubby.001.jpg</dc:identifier>
<dc:subject>Cats—pictorial works</dc:subject>
<dc:subject>fire engines</dc:subject>
```



**Animal is a category**

There are many different types of animals!



**Mammal IsA Animal**

**A mammal is a type of animal**

All mammals are animals, but not all animals are mammals

**Bunny IsA Mammal, so Bunny IsA Animal**

**A Bunny is a mammal and, therefore, is a animal:**

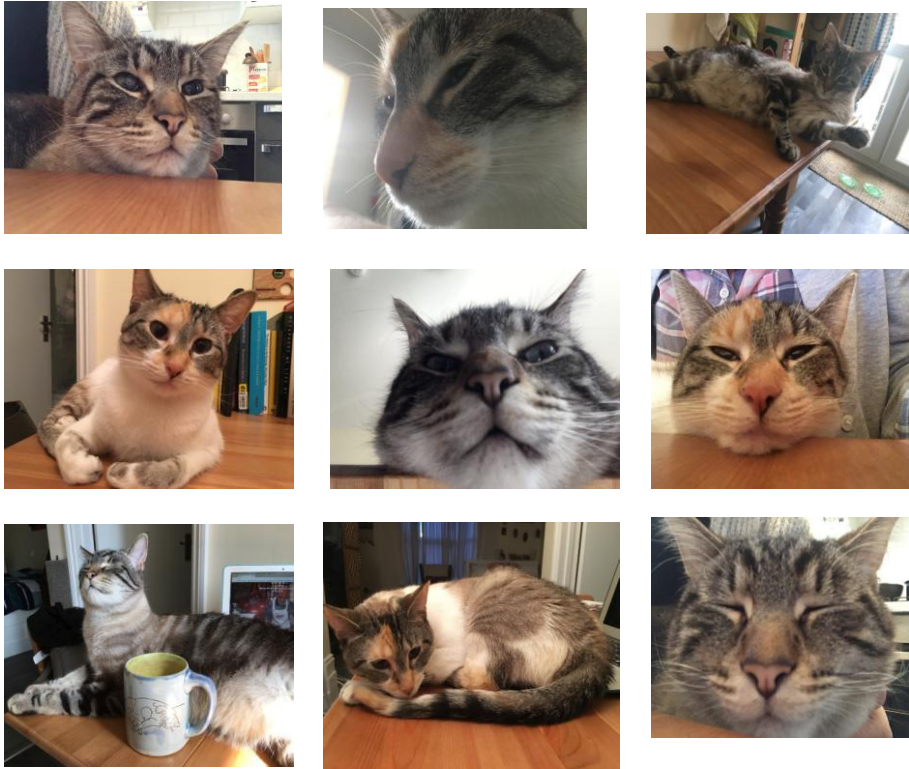
All bunnies are animals, and all bunnies are mammals

## Relational Declarations and IsA:

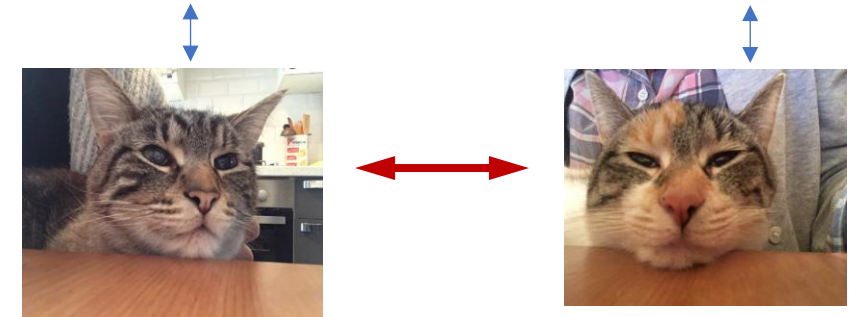
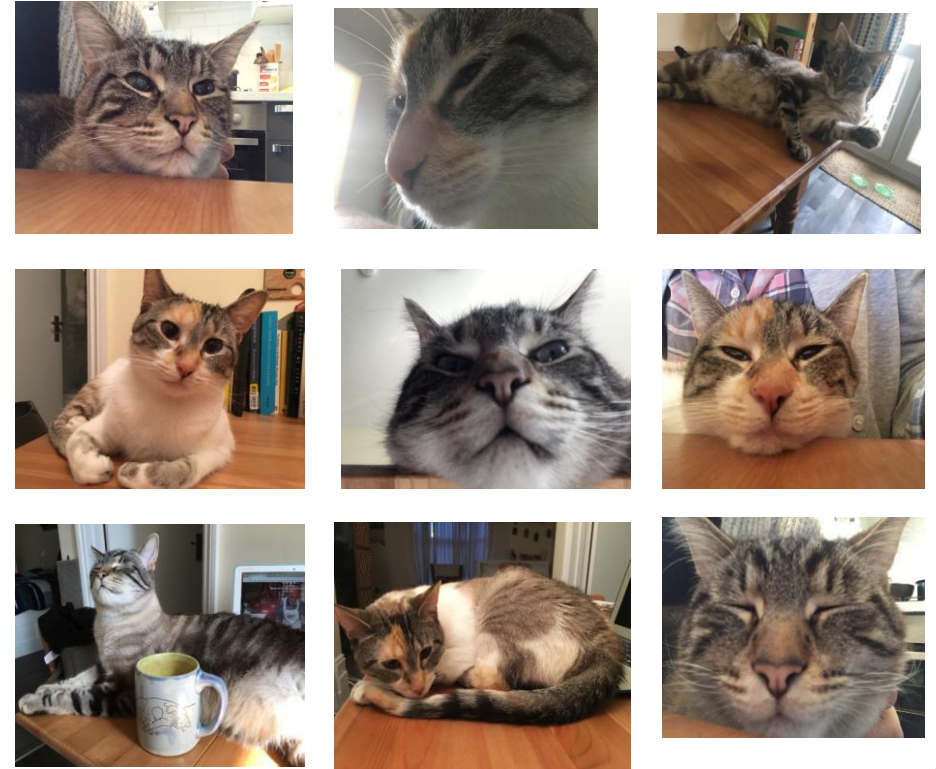
How all bunnies are mammals,  
but not all mammals are  
bunnies

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**NOT**



*Each photo is a part of this album.  
Which is to say: They are related because they are part of the same group of images.*

*Why not? It would be redundant because we have already shown that these cats belong to a group of images, just like we don't need to specify that bunnies are animals because we have demonstrated they are mammals.*