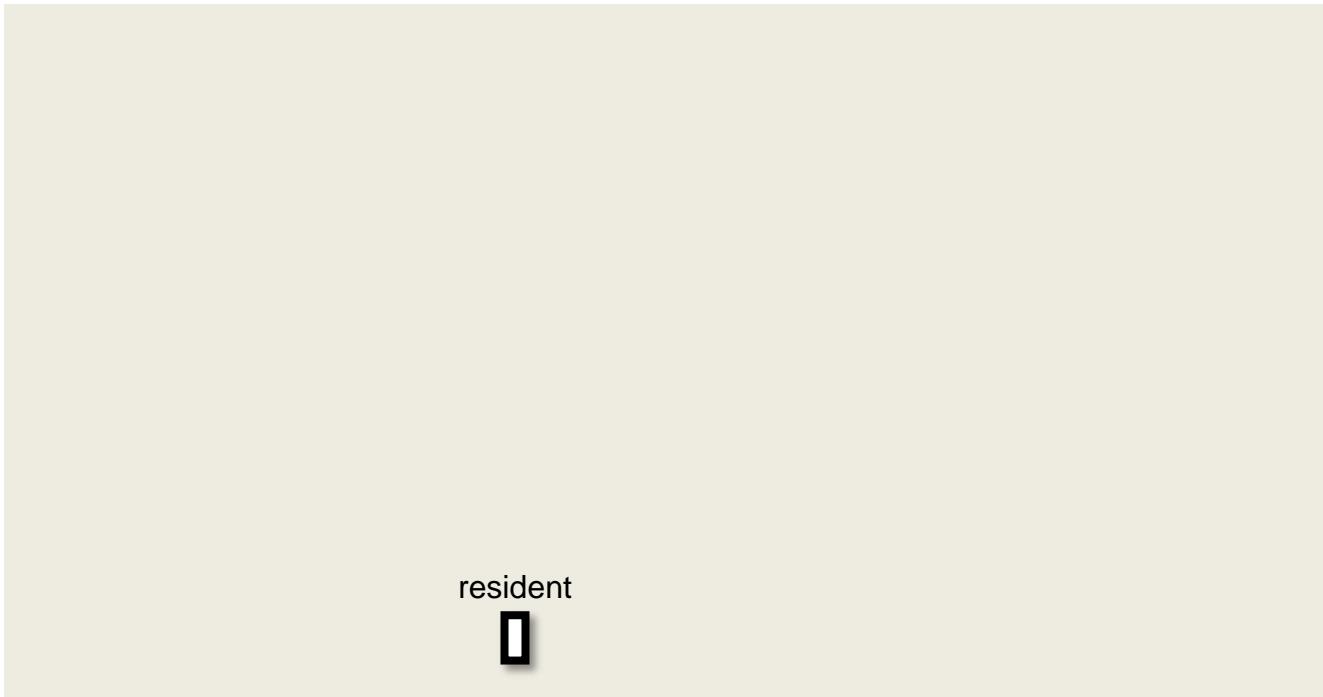


a modeling case

# Resident

designing a contextual-semantic diagram with metapattern

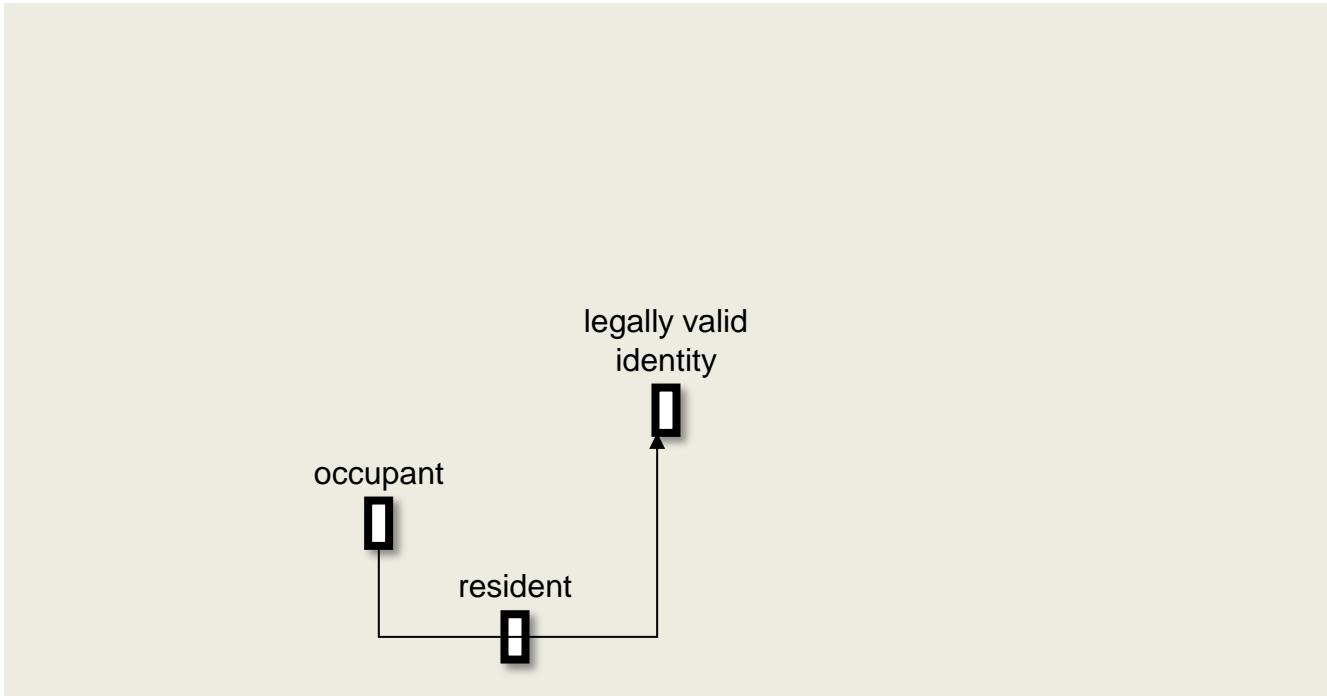


For **every** concept,  
basic questions according to metapattern read:  
— Regarding relevant scope, does the concept  
require disambiguation?  
— If so, what (other) concepts supply its context?

step 1  
A **resident** is an **occupant** allocated  
a **legally valid identity**. So ...

# Resident

designing a contextual-semantic diagram with metapattern — step 2



Now, what about **occupant**?

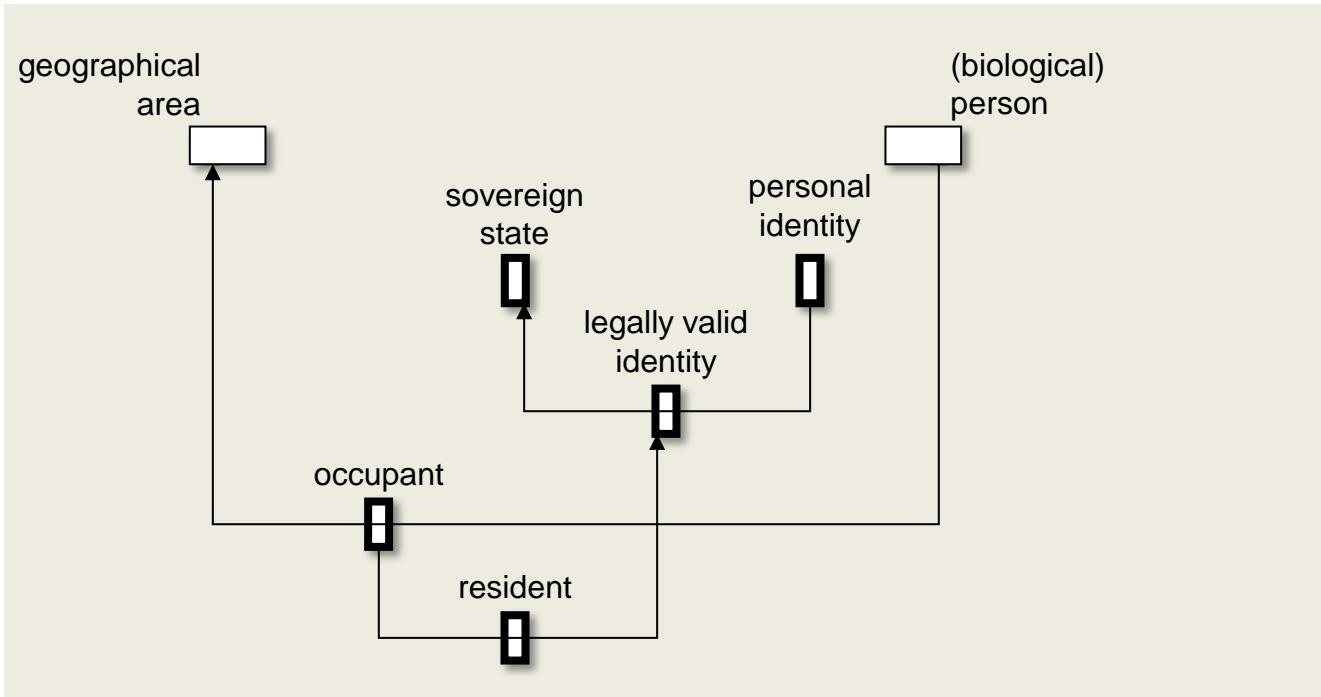
An **occupant** is a **(biological) person** living in a **geographical area**.

And what about **legally valid identity**?

A **legally valid identity** is a **personal identity** warrented by a **sovereign state**. So ...

# Resident

designing a contextual-semantic diagram with metapattern — step 3



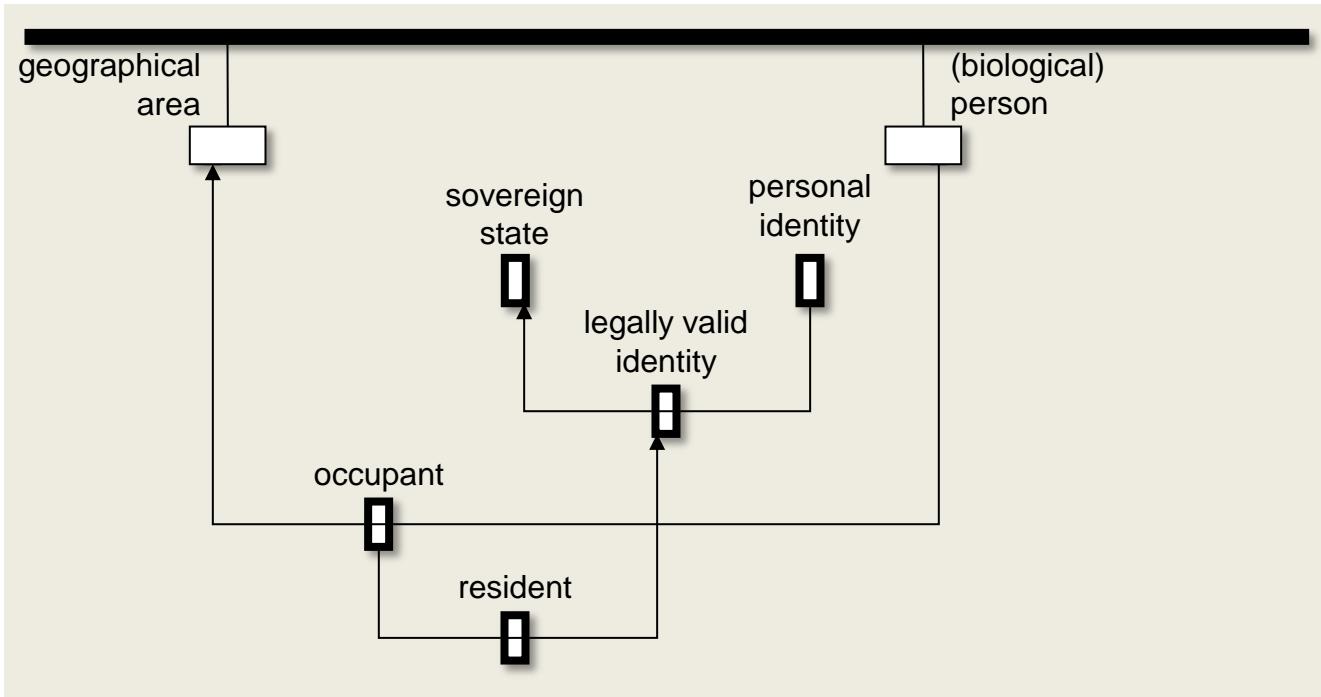
So far in this modeling case, please note, each design step doubles the number of further concepts eligible for contextual disambiguation. Does this progression continue indefinitely?

No!

Taking e-government for the relevant scope, **geographical area** is (seems?) sufficiently differentiated. It is therefore directly derived from the so-called **horizon**, figuring as the ultimate context. In this case, the same applies for **(biological) person**. So ...

# Resident

designing a contextual-semantic diagram with metapattern — step 4

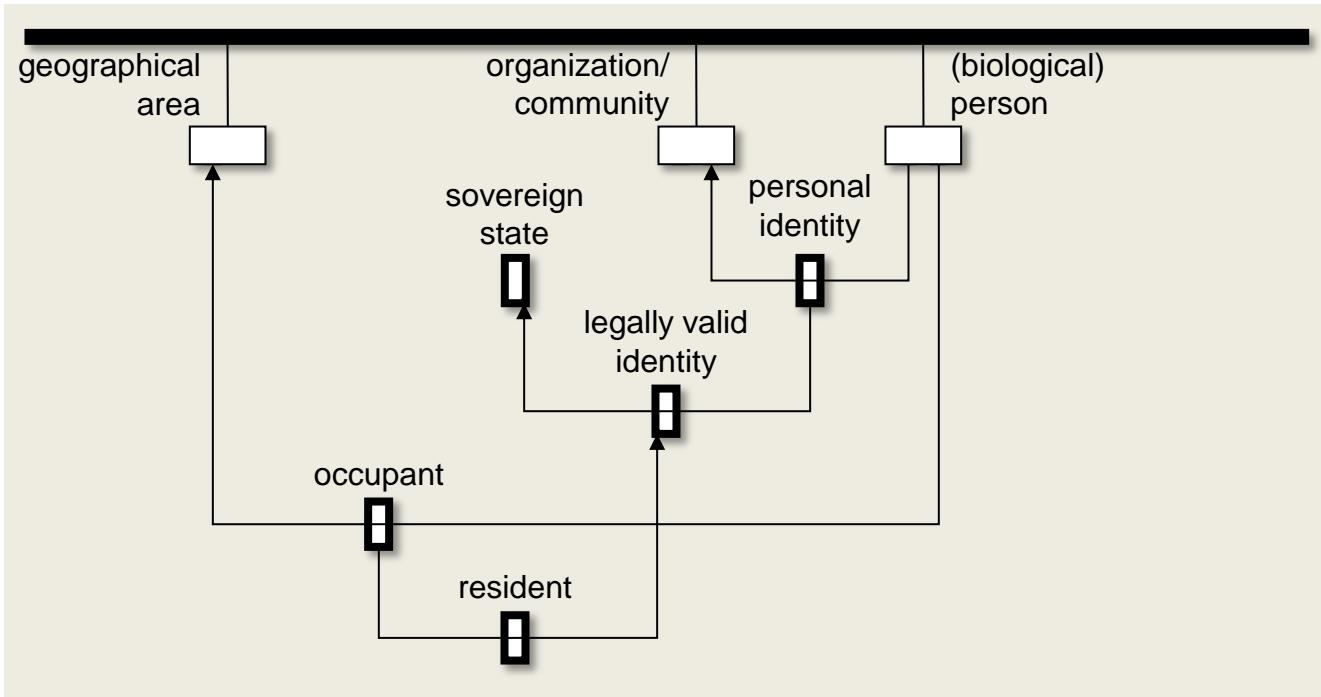


As it turns out with this modeling case, contextualizing **personal identity** also doesn't result in doubling further concepts. For a **personal identity** is how a **community** (also read: **organization**) positions a **(biological) person**.

One of those concepts, that is, **(biological) person** already appears in the diagram and is therefore available for contextualizing other concepts. So ...

# Resident

designing a contextual-semantic diagram with metapattern — step 5

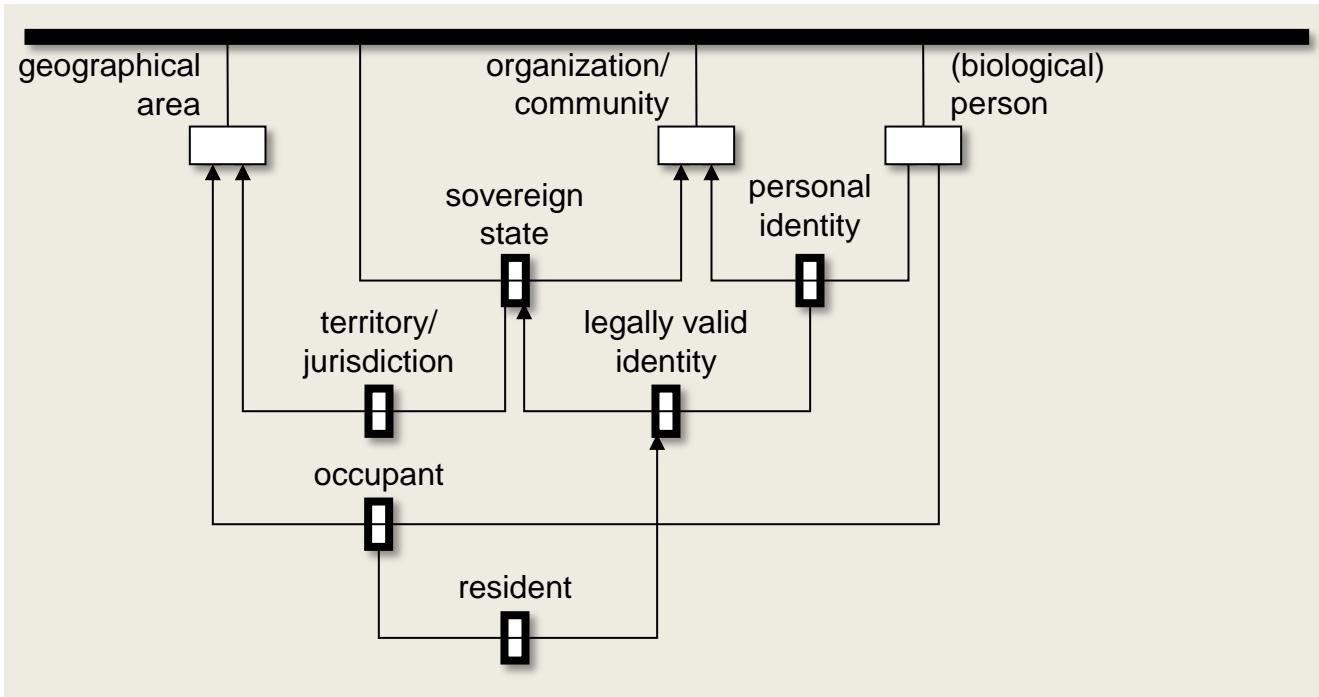


Next, it is readily recognizable that a **sovereign state** may be considered some manifestation of an **organization/community**, as no additional concept is required for contextualizing **sovereign state**, its other connection is directly to the **horizon**.

Starting from concepts so far included, more contextualized concepts may be added. It could be relevant, for example, to indicate that a **geographical area** is a **territory/jurisdiction** of a **sovereign state**. So ...

# Resident

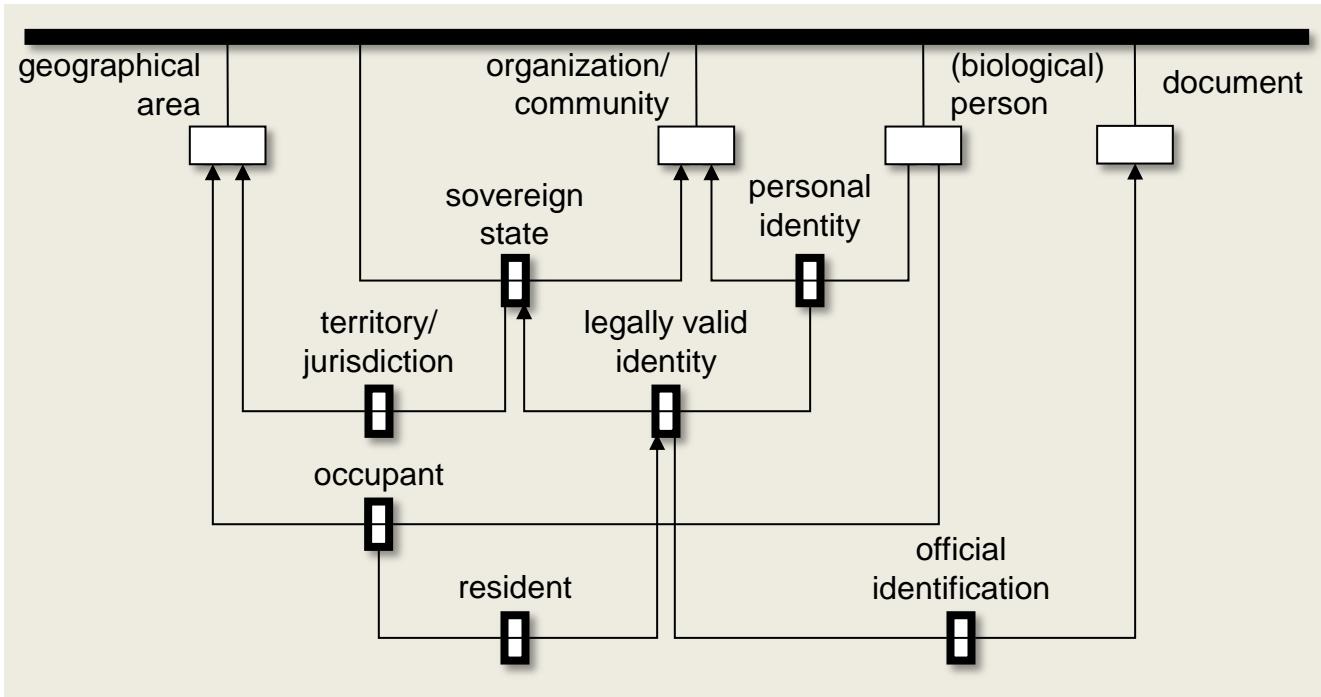
designing a contextual-semantic diagram with metapattern — step 6



Then, for example, how does a passport fit?  
More generally speaking, it is a **document** in its capacity as an **official identification** as proof of a **legally valid identity**. So ...

# Resident

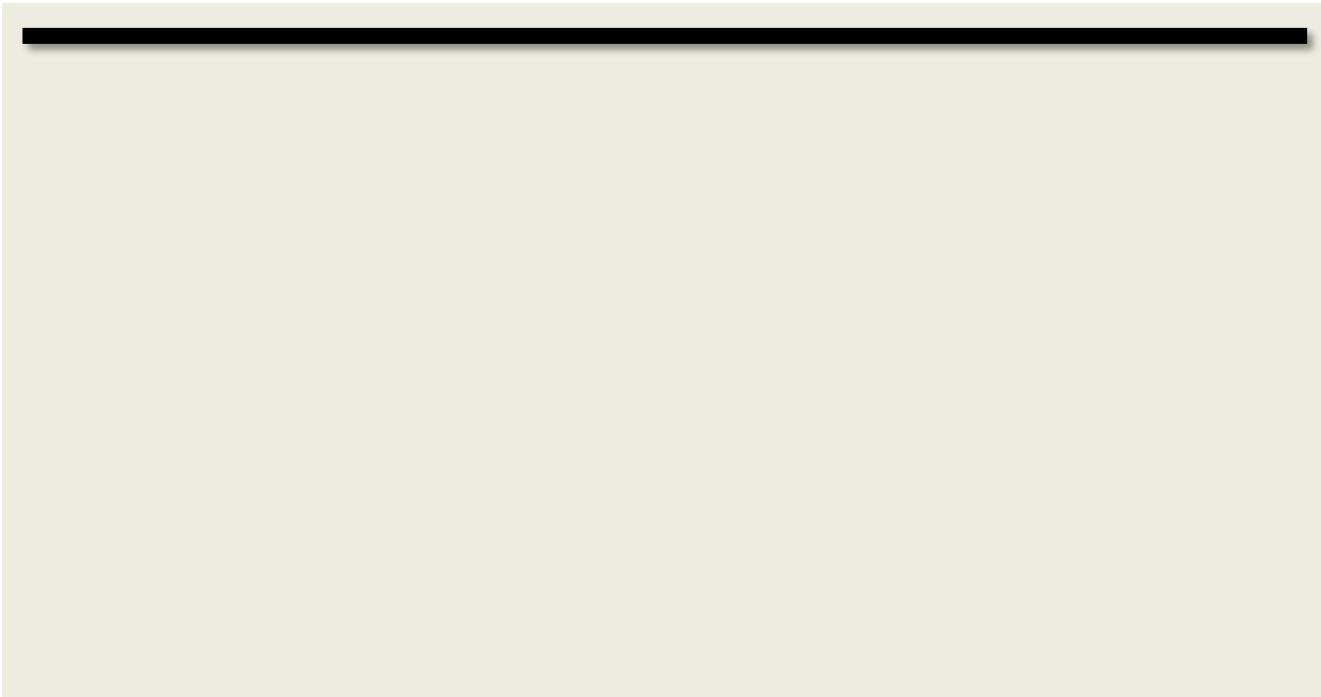
designing a contextual-semantic diagram with metapattern



Above, the final diagram is shown for this modeling case.  
The steps taken suggest that design is largely a bottom-up process.  
An experienced modeler, however,  
iterates between bottom-up and top-down differentiation.  
How the same diagram develops from a top-down approach  
is shown in the remaining slides.

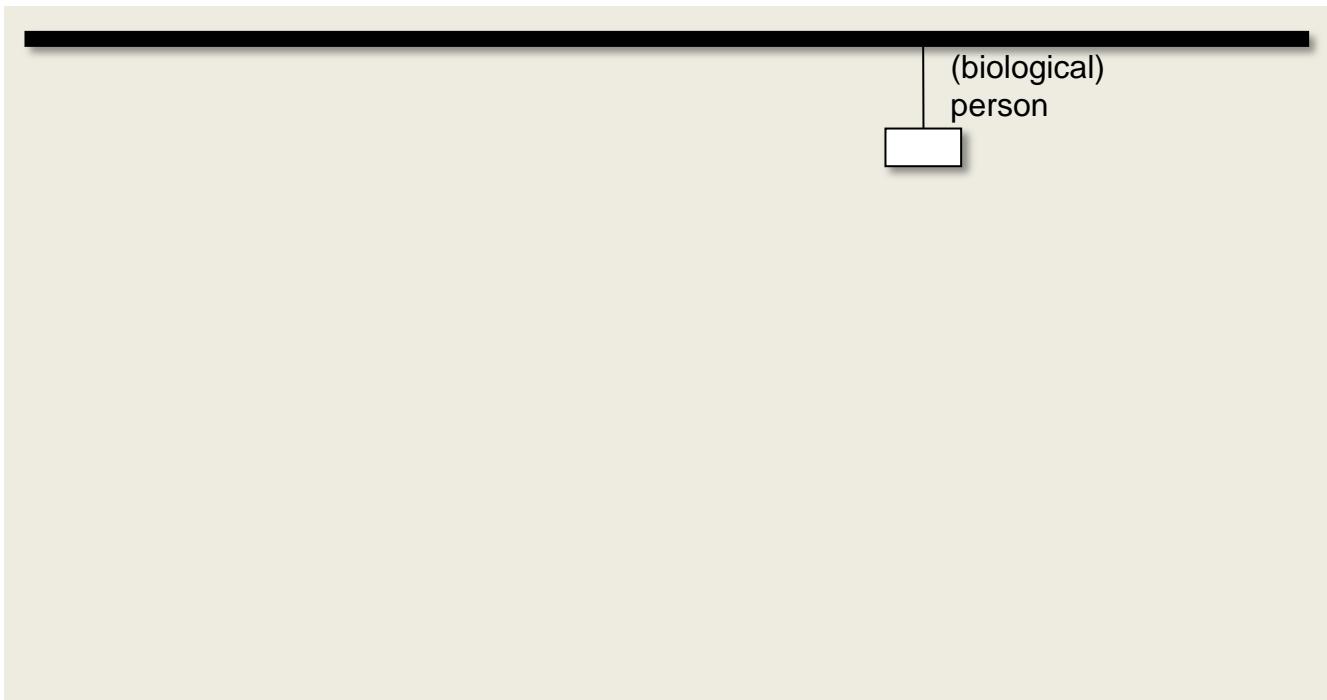
# Designing a contextual-semantic diagram with metapattern

resident



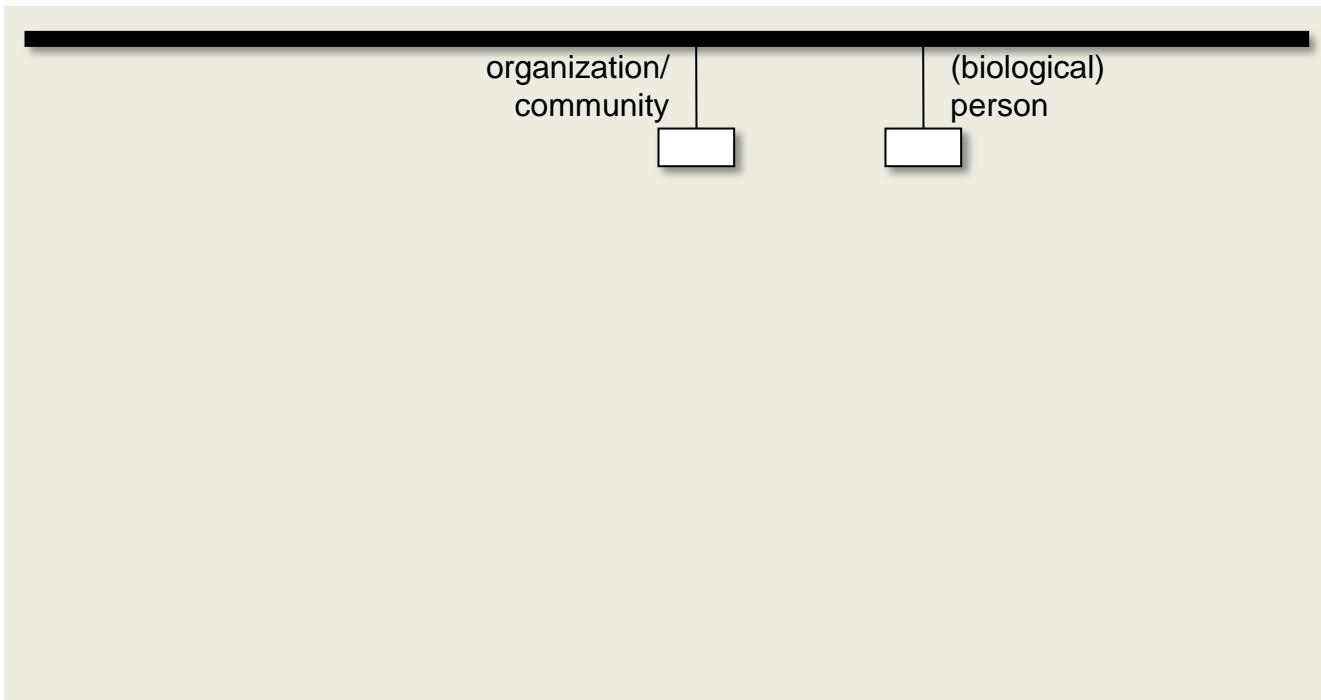
# Designing a contextual-semantic diagram with metapattern

resident



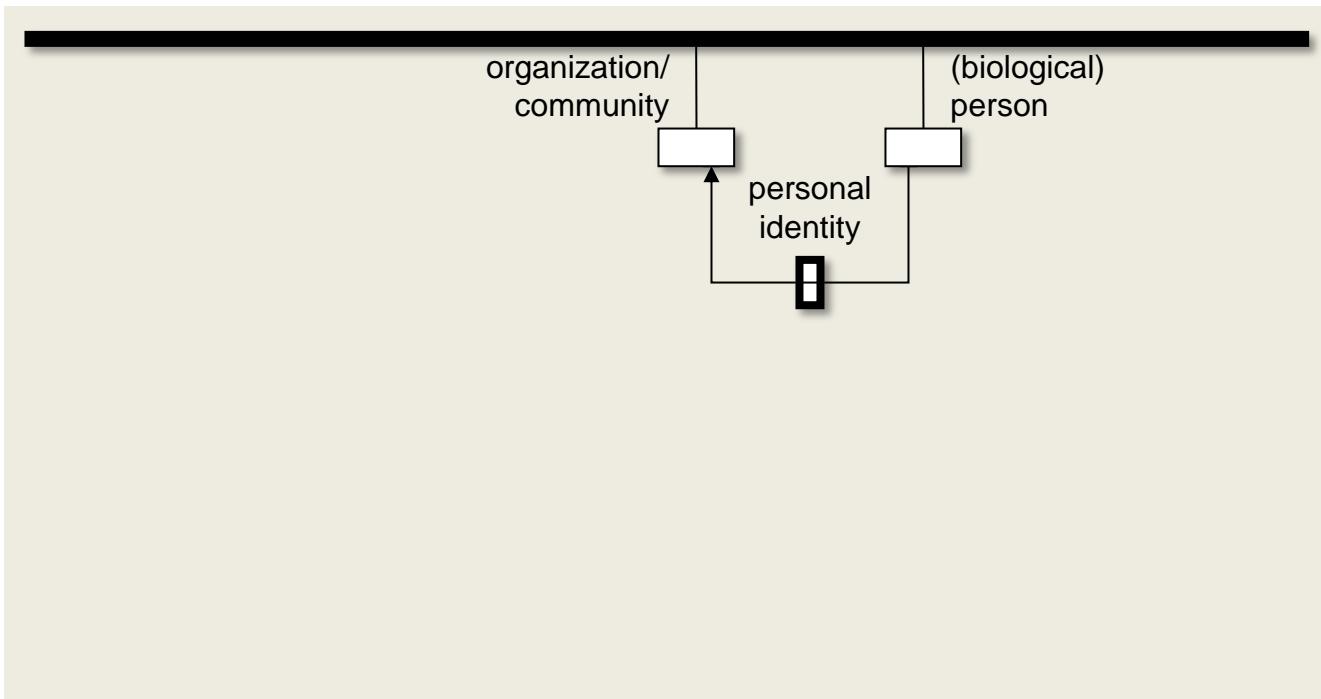
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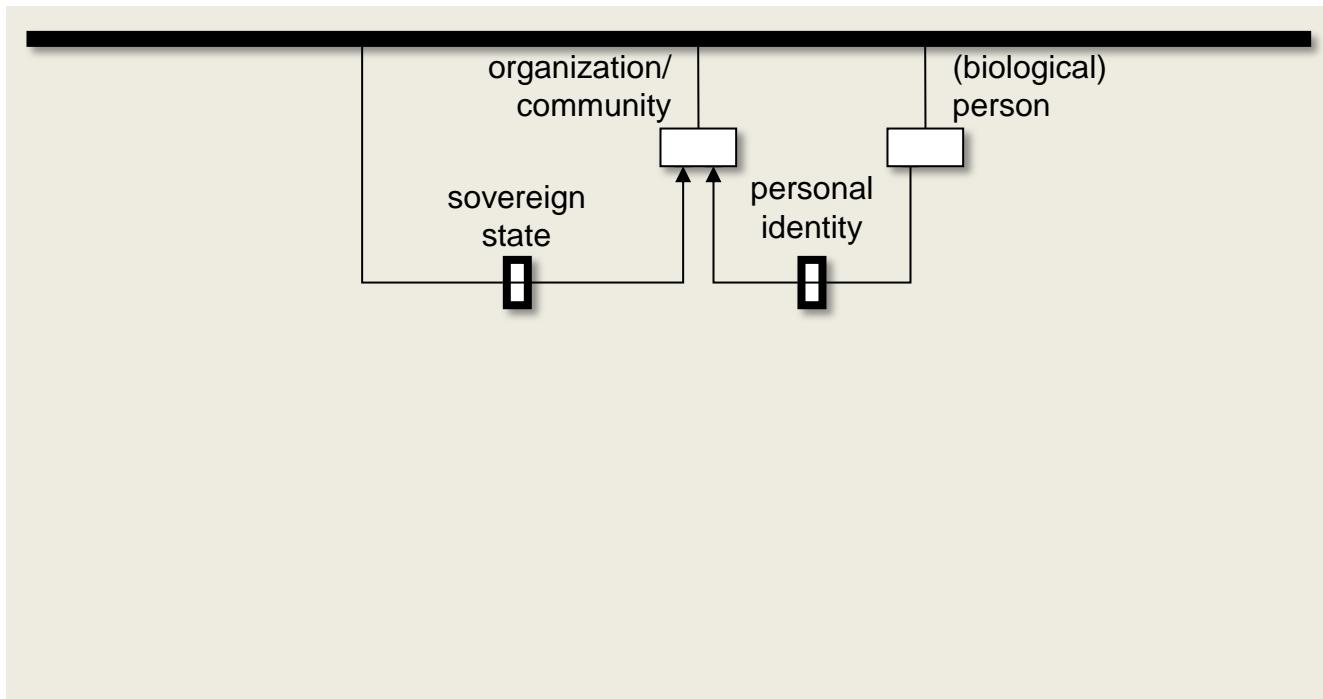
# Designing a contextual-semantic diagram with metapattern

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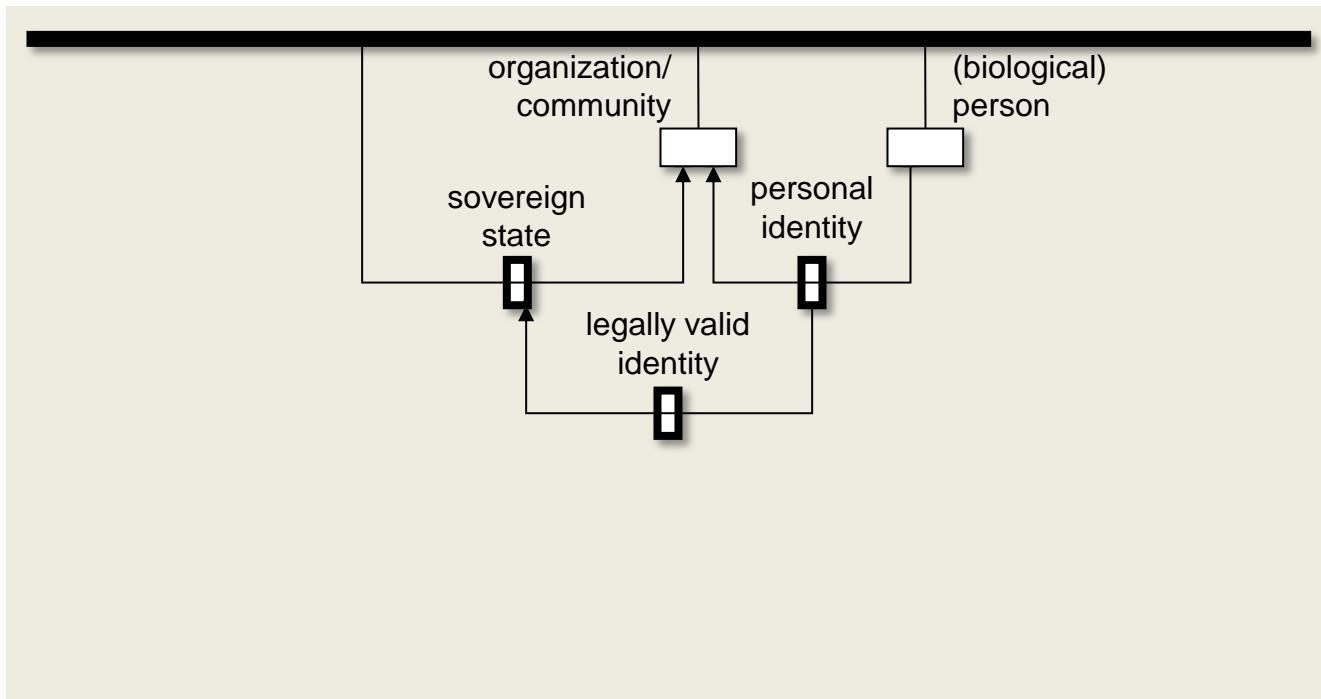
# Designing a contextual-semantic diagram with metapattern

resident



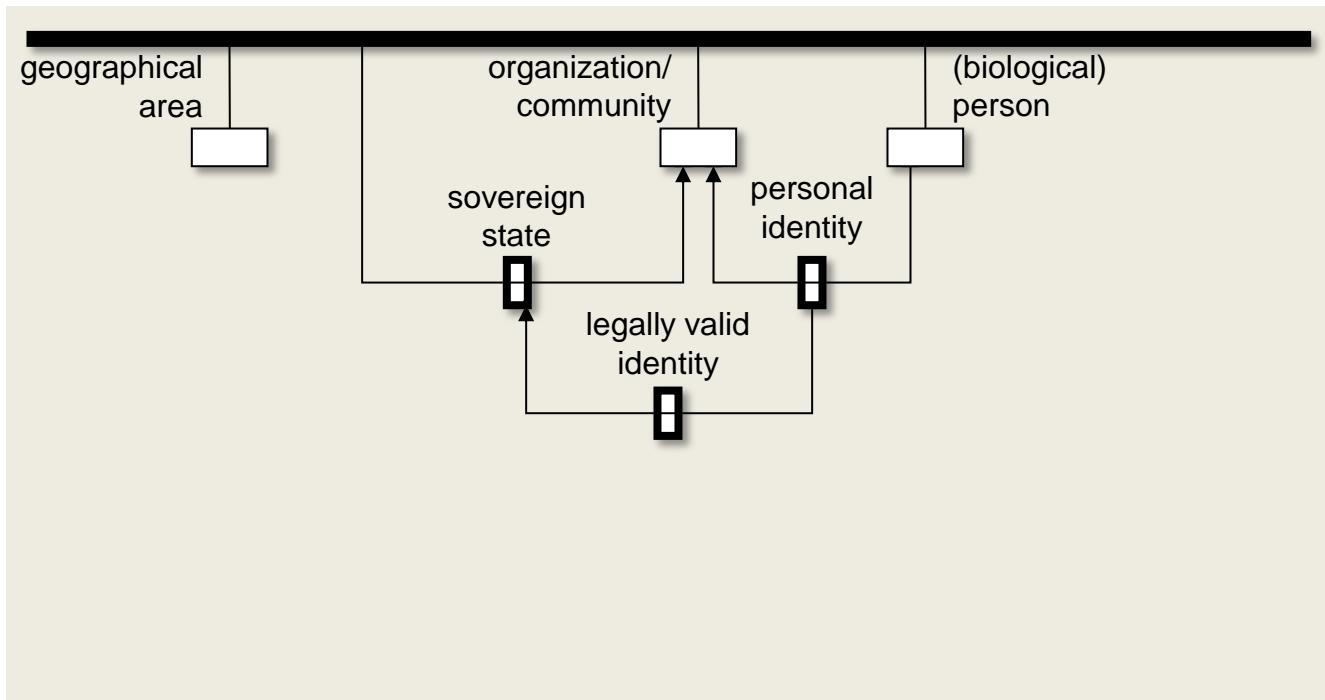
# Designing a contextual-semantic diagram with metapattern

resident



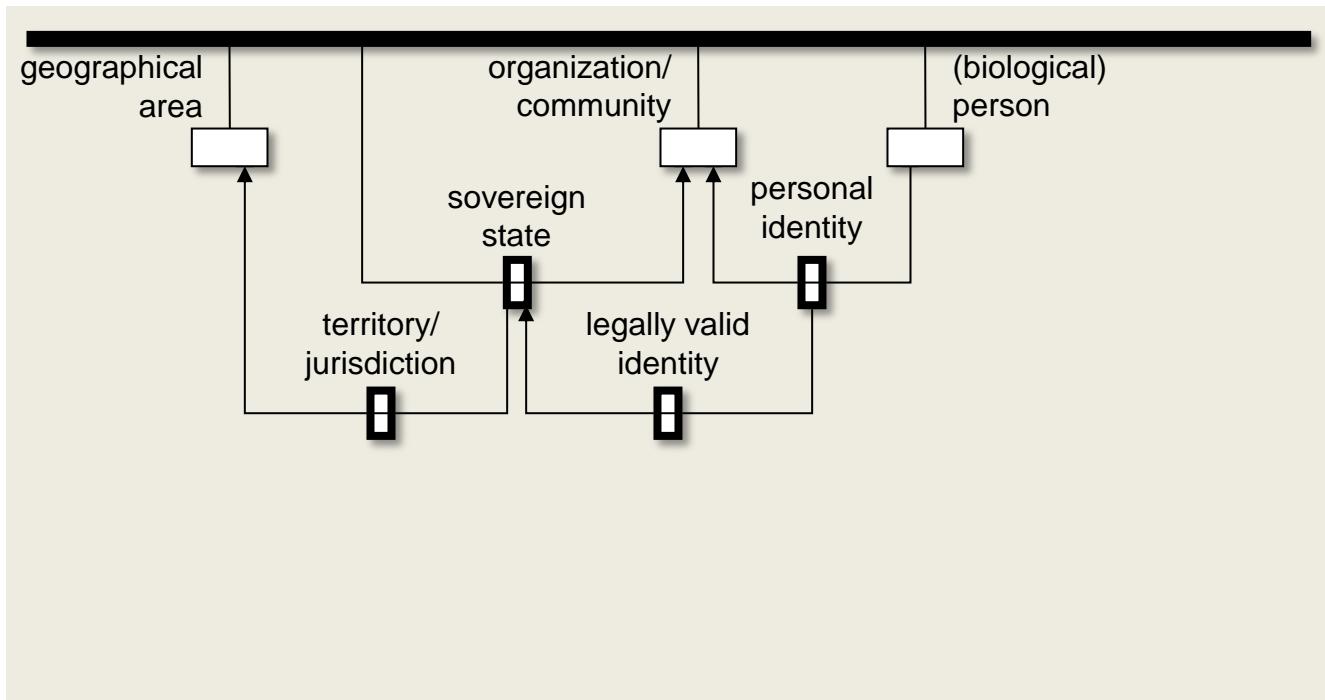
# Designing a contextual-semantic diagram with metapattern

resident



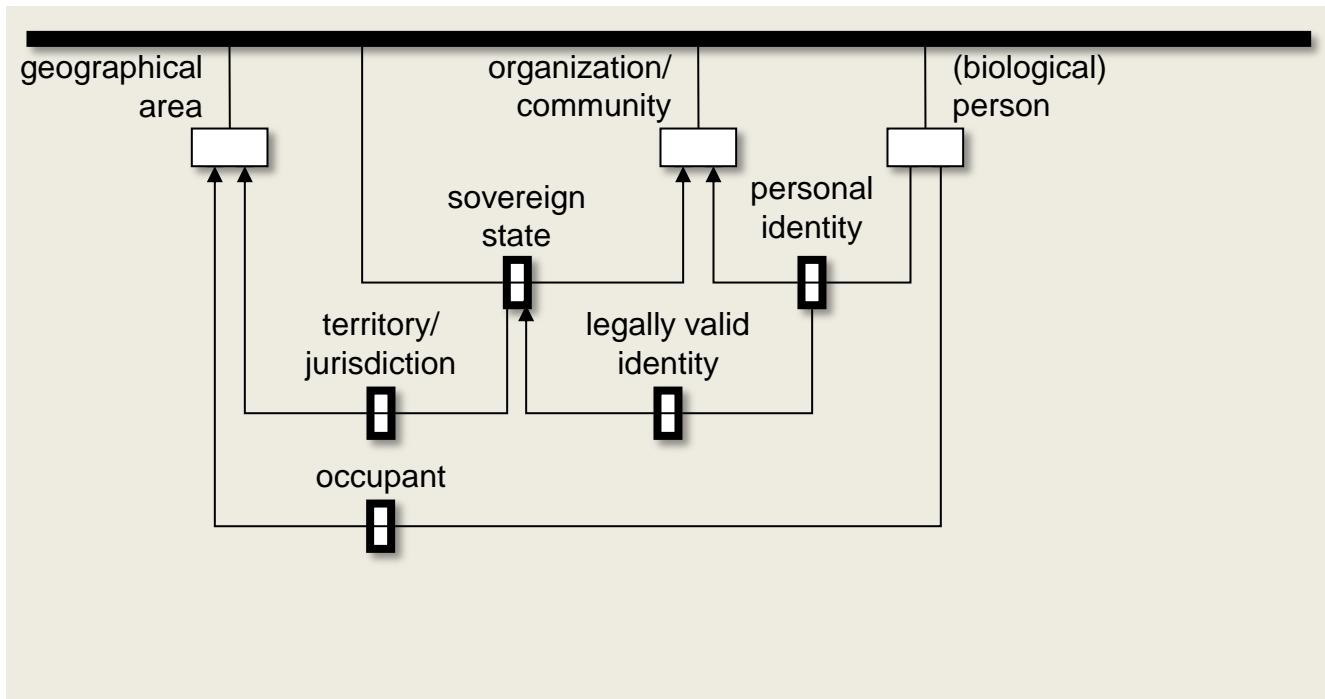
# Designing a contextual-semantic diagram with metapattern

resident



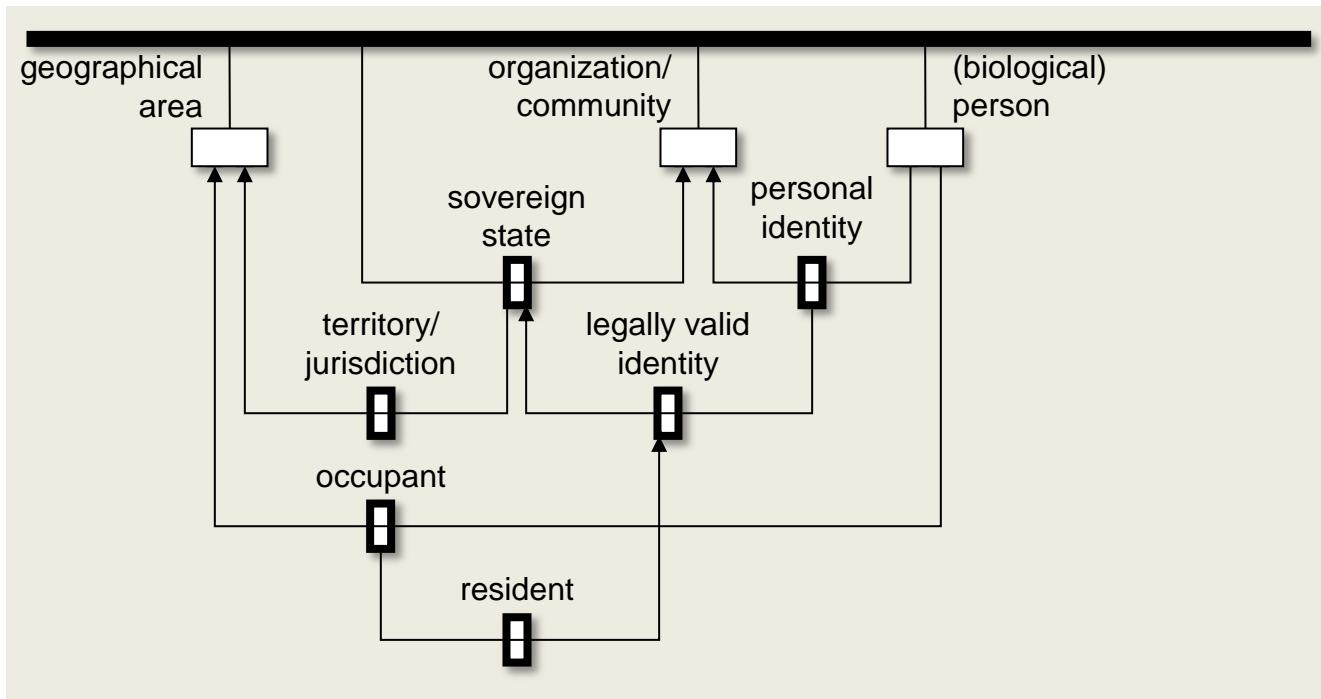
# Designing a contextual-semantic diagram with metapattern

resident



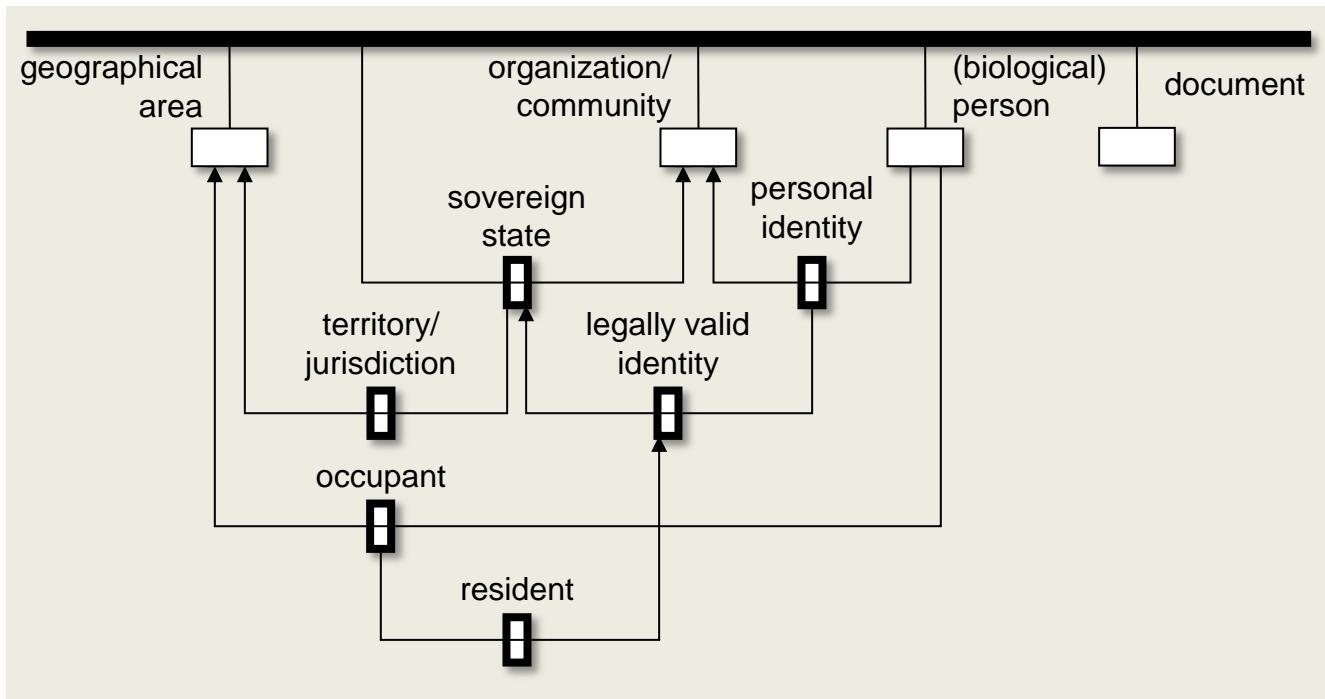
# Designing a contextual-semantic diagram with metapattern

resident

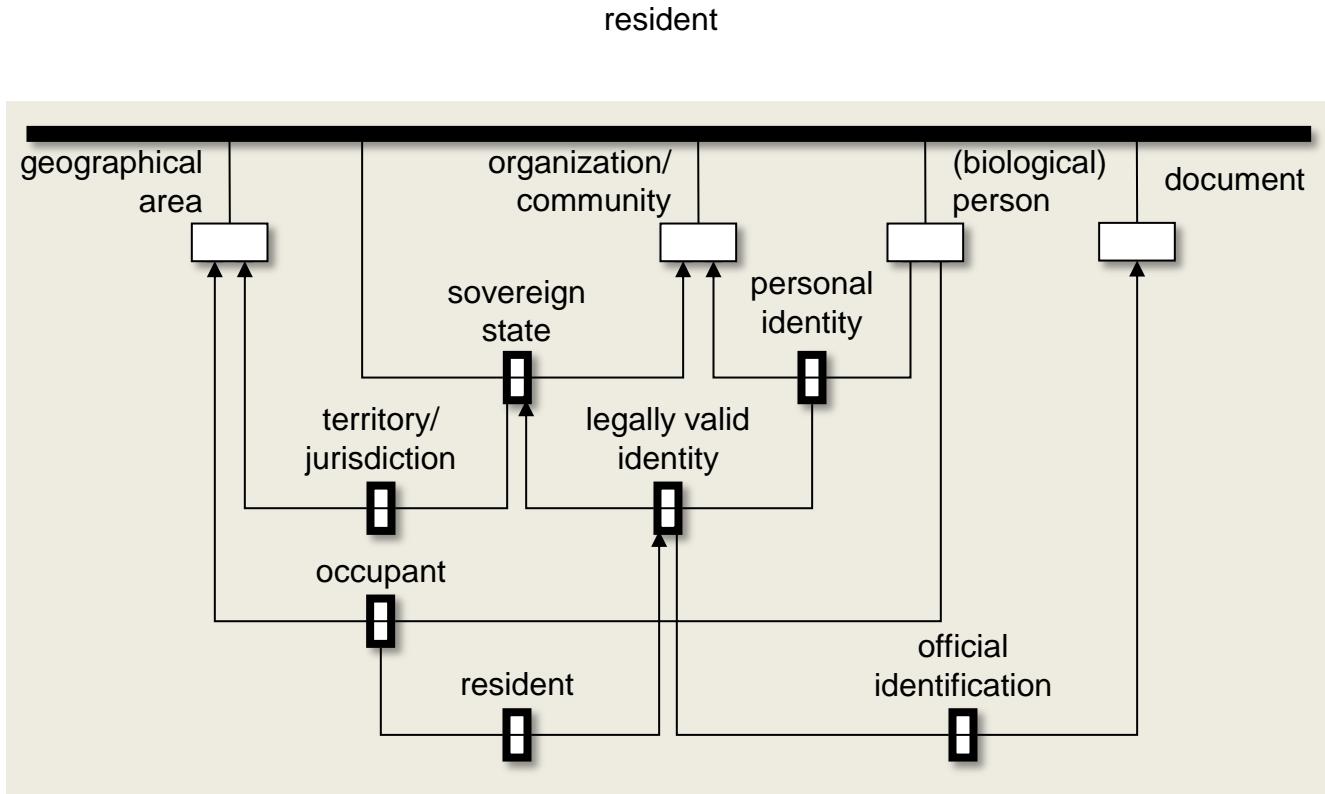


# Designing a contextual-semantic diagram with metapattern

resident



# Designing a contextual-semantic diagram with metapattern



end

~~end~~

begin

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