

How to agree to disagree

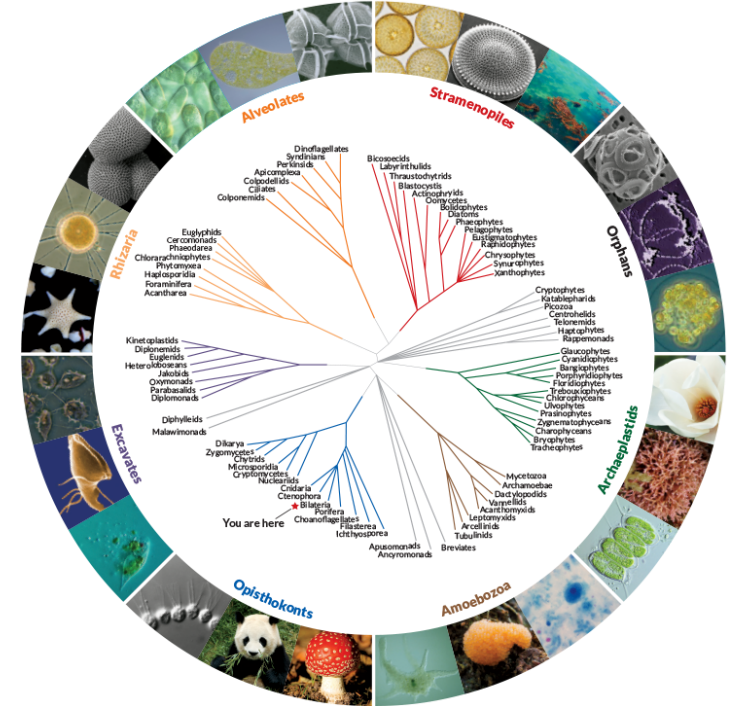
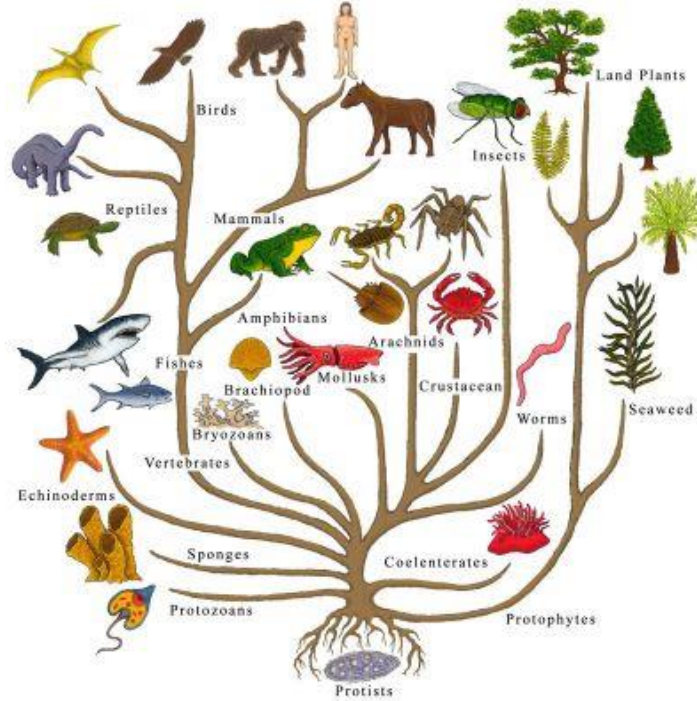
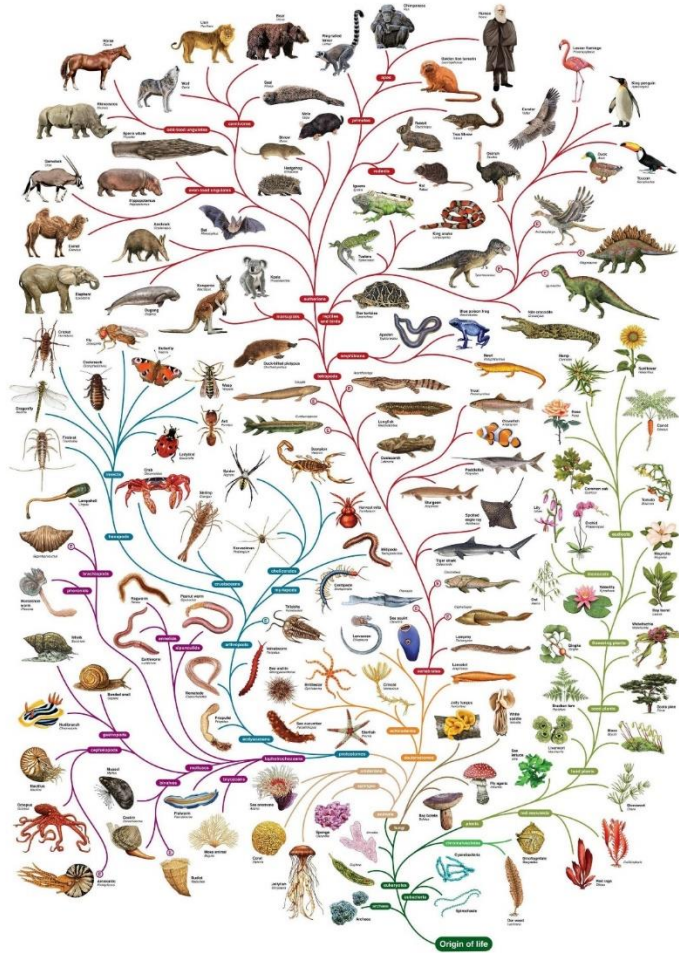
(on data solution automation)



Roelant Vos

Budapest Data Forum - 2022

Reality?



'Inspired laziness'

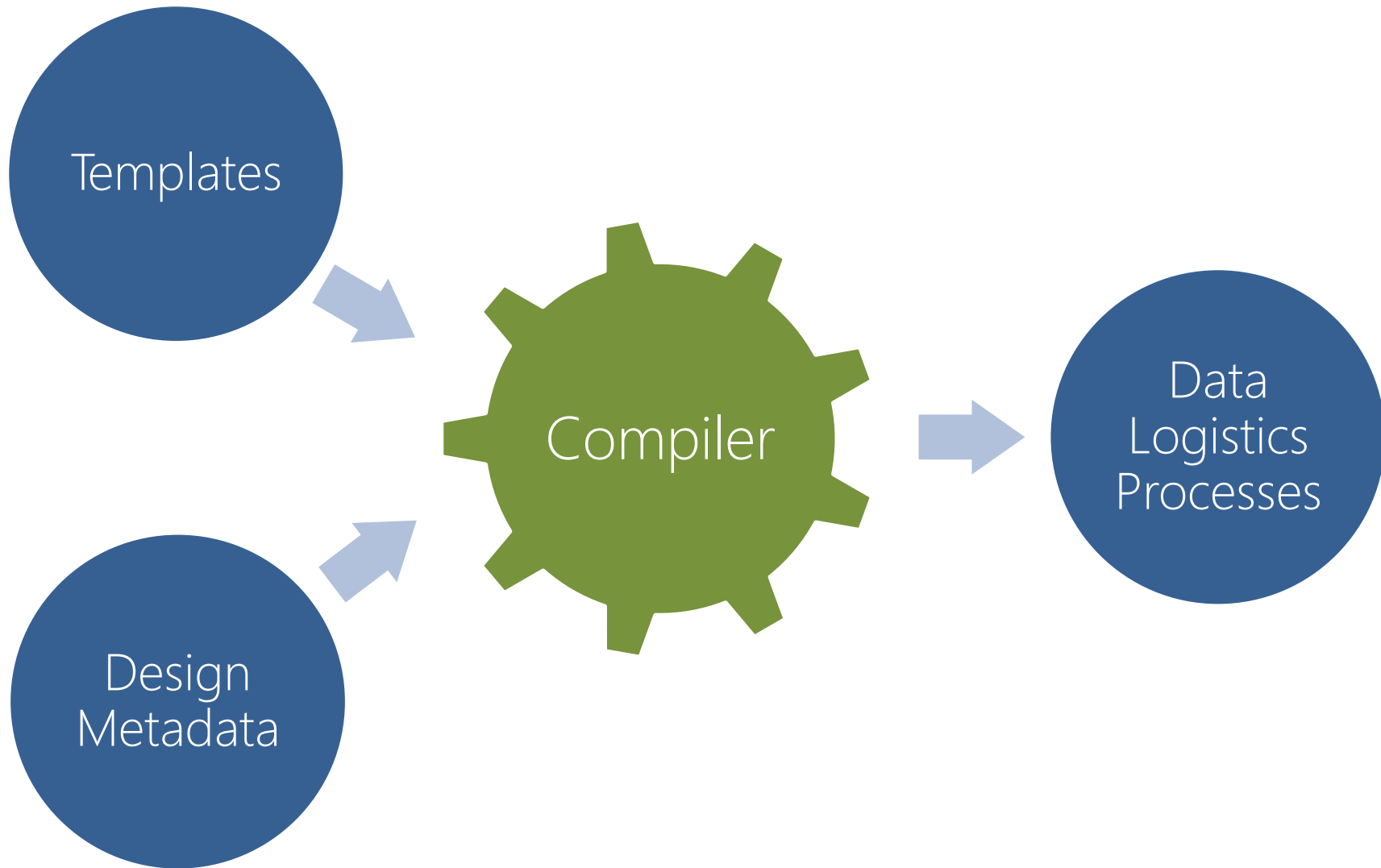
- Only lazy programmers want to write tools that *might replace them*
- Only lazy programmers will *avoid writing monotonous, repetitive code*
- The tools and processes inspired by laziness *speed up production*
- However, for a lazy programmer to be a good programmer, he or she must be *incredibly 'unlazy'* when it comes to learning how to stay lazy

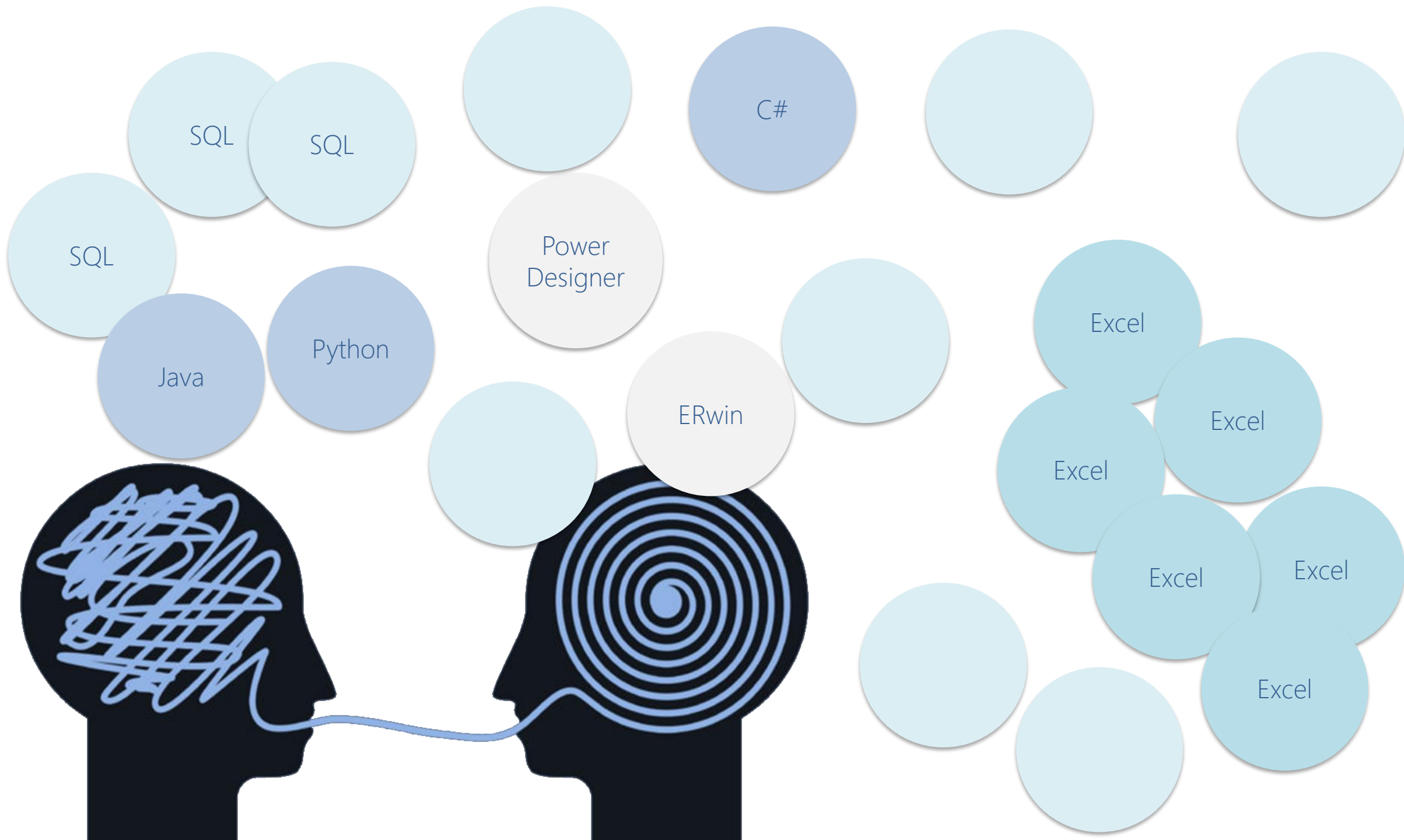


www.roelantvos.com/blog

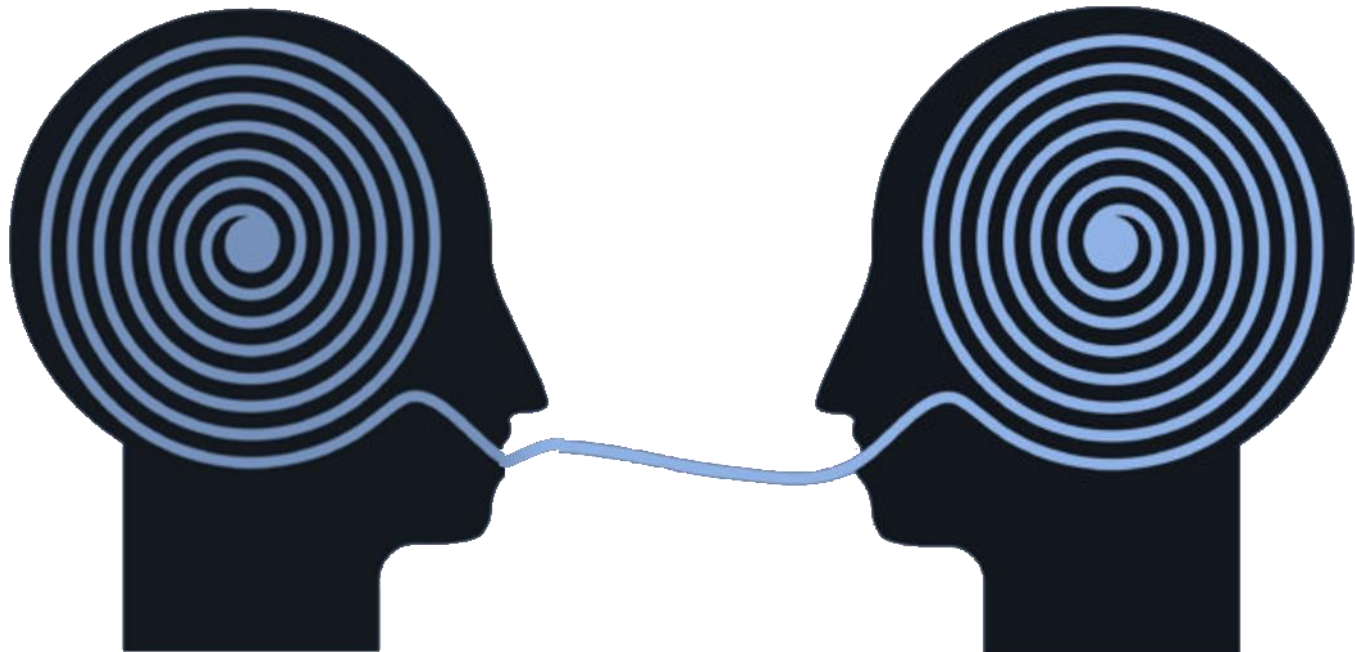
<https://github.com/RoelantVos>

www.varigence.com/blog





Imagine how much can we accomplish
when we can work together?

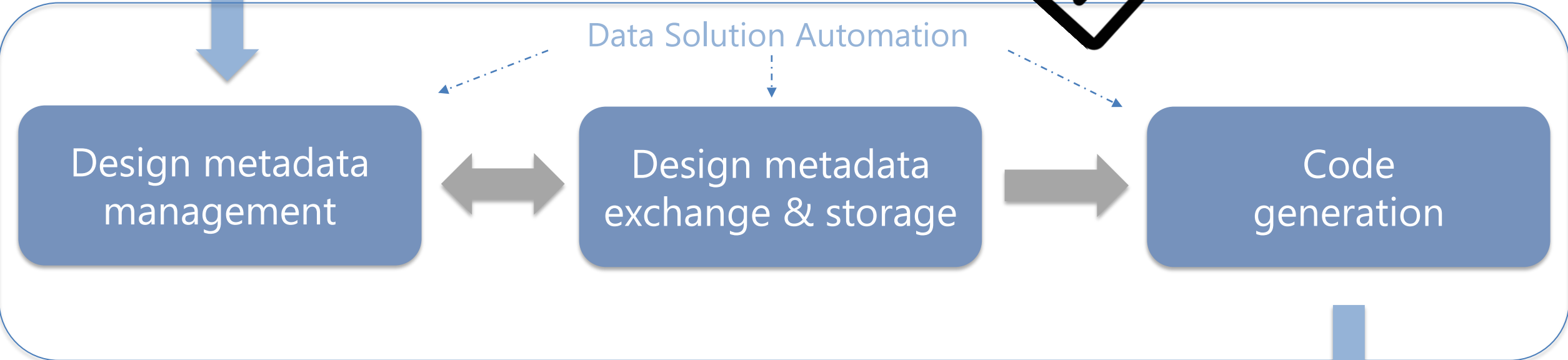


Design
metadata

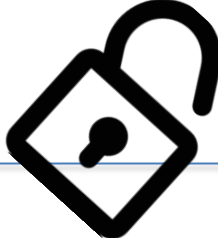


Artifacts

Design metadata



Data Solution Automation



Design metadata management



Design metadata exchange & storage



Code generation



Artifacts

Data Solution Automation

Design metadata
management



Design metadata
exchange & storage



Code
generation

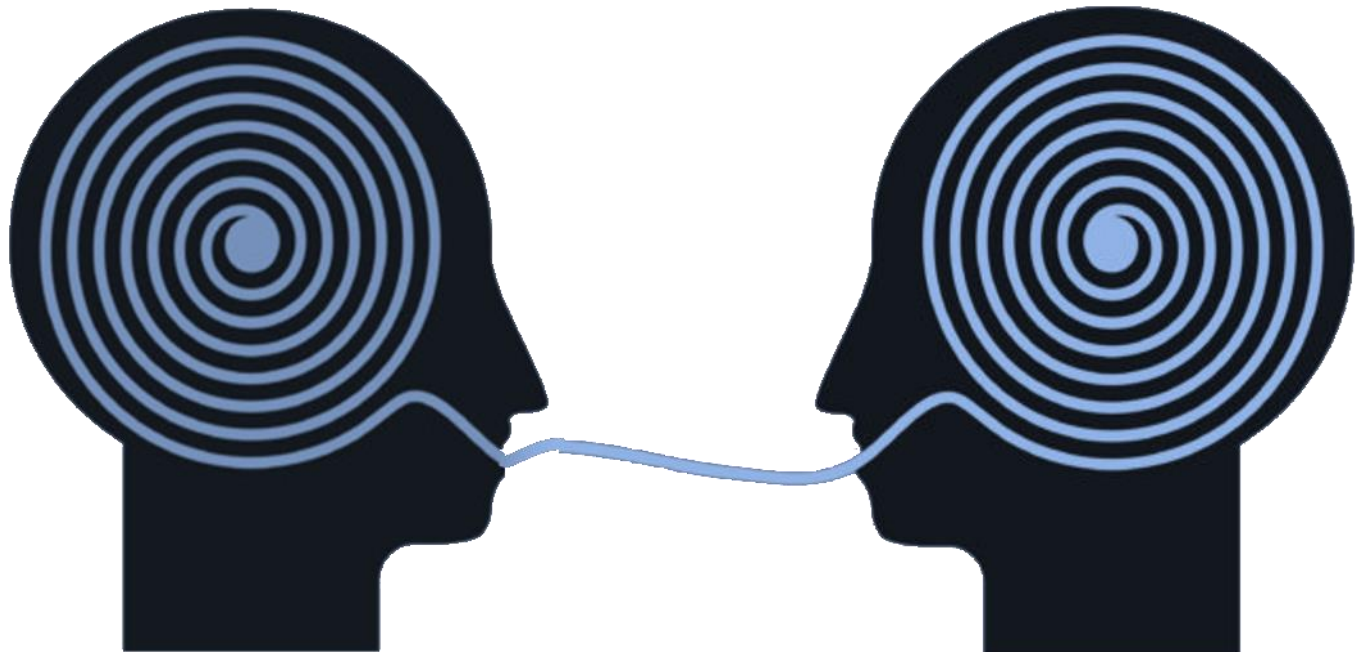
- 3rd party automation software e.g. BimlFlex
- Homebrew e.g. TEAM, Excel
- Database
- Modelling tool with macros e.g. Powerdesigner

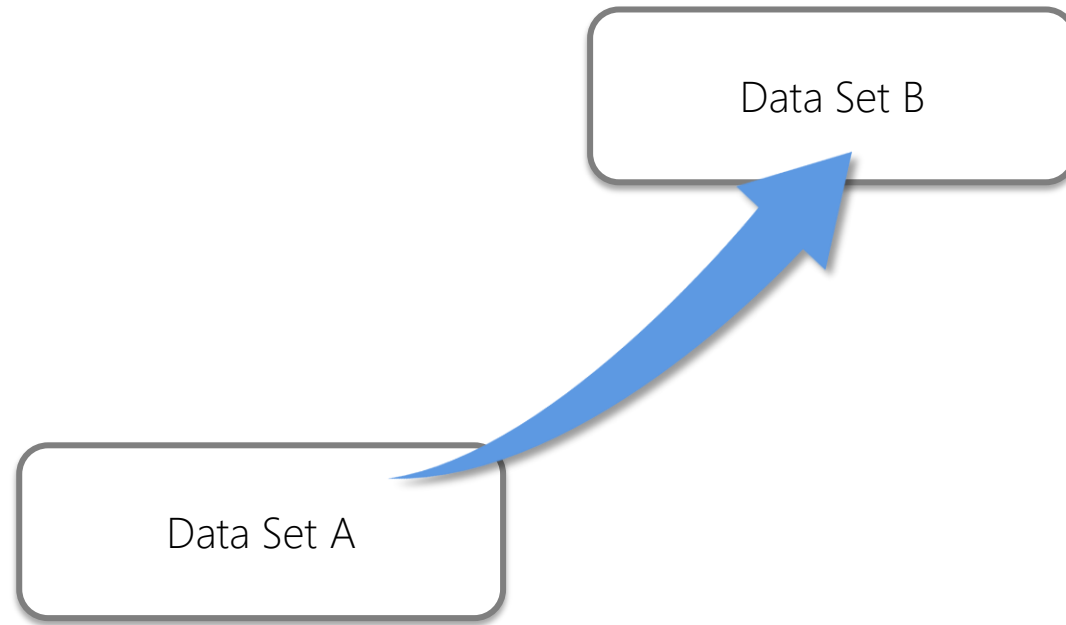
Schema for Data Solution Automation (Json / XML / Yaml / etc.)

As long as it's file based to go into version control.

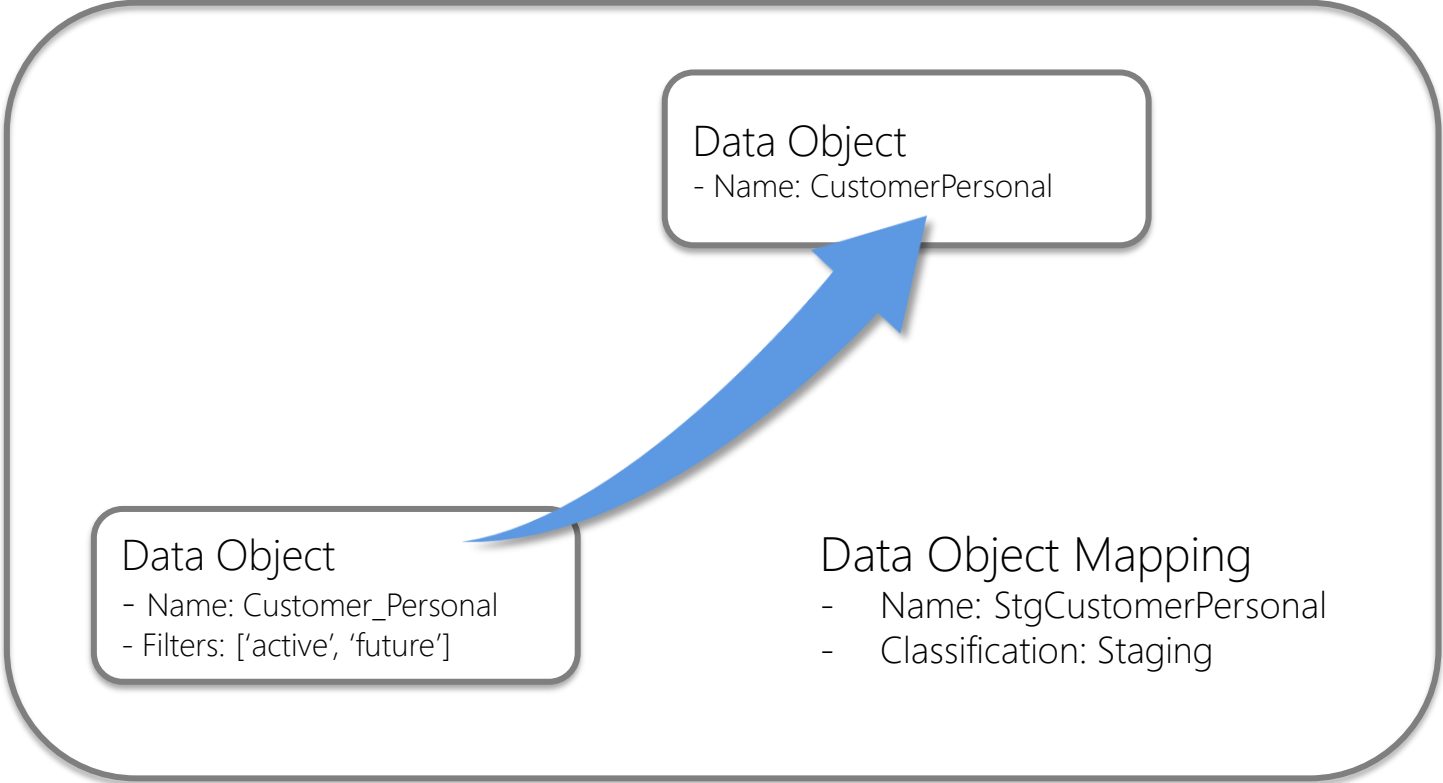
- Templating engines
 - Handlebars
 - Pebble
 - Scriban
 - Jinja
- Compilers
 - Biml
- SDKs
- Proprietary
 - SQL-based
 - C#, Python, Java

So, what do we need to record?





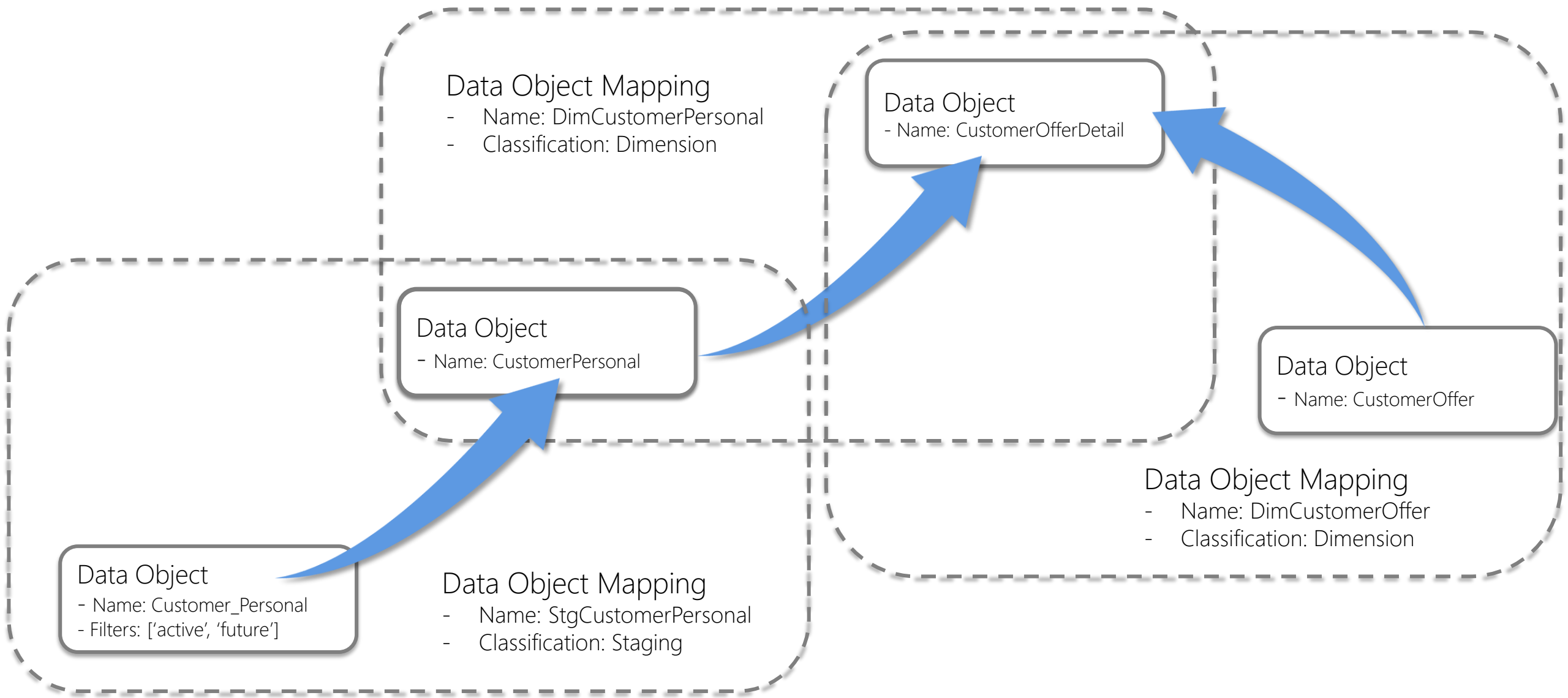
But, what is A and what is B?

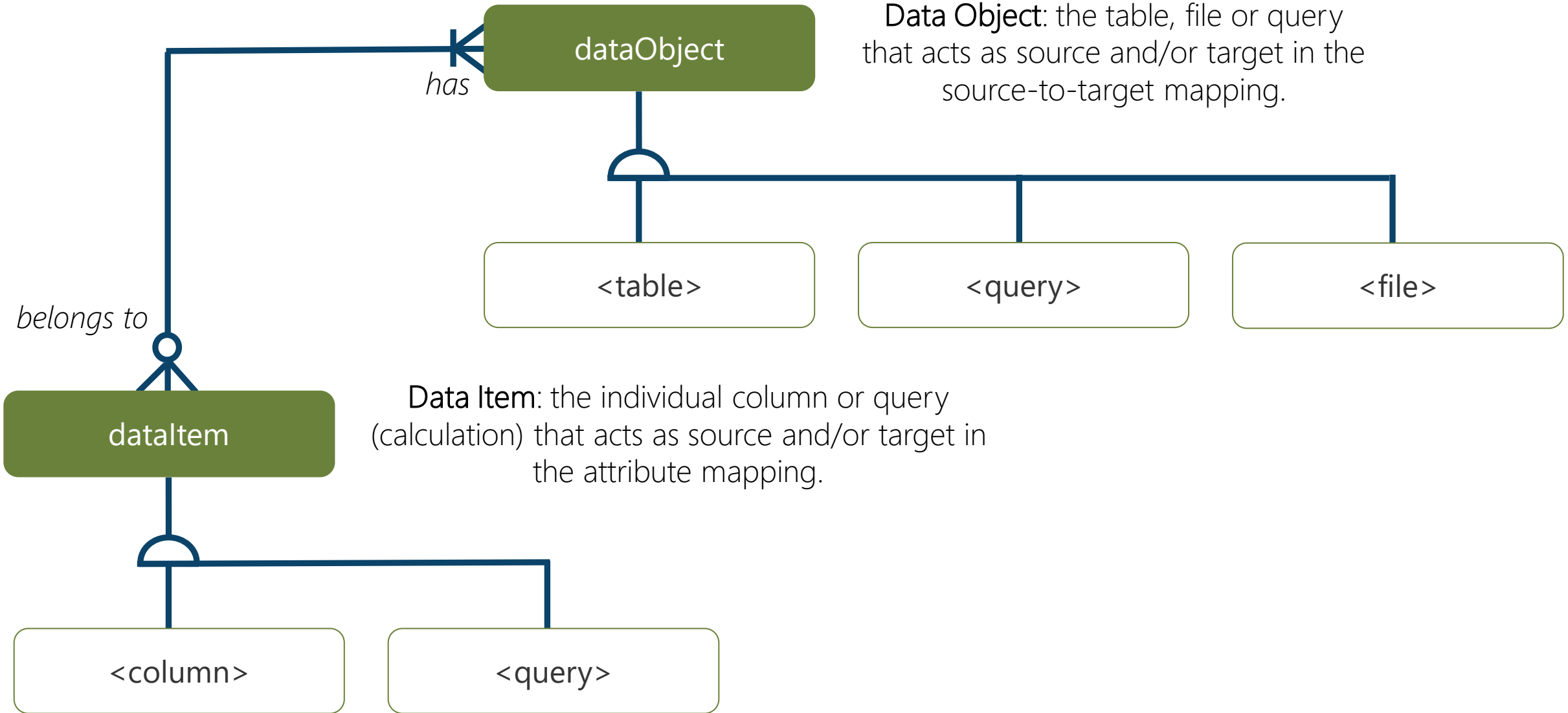


Data Object
- Name: CustomerPersonal

Data Object
- Name: Customer_Personal
- Filters: ['active', 'future']

Data Object Mapping
- Name: StgCustomerPersonal
- Classification: Staging





dataObjectMapping

sourceDataObject(s) : dataObject

maps to

targetDataObject : dataObject

businessKeyDefinition

- Filter Criteria
- Classification

dataItemMapping

sourceDataItem(s) : dataItem

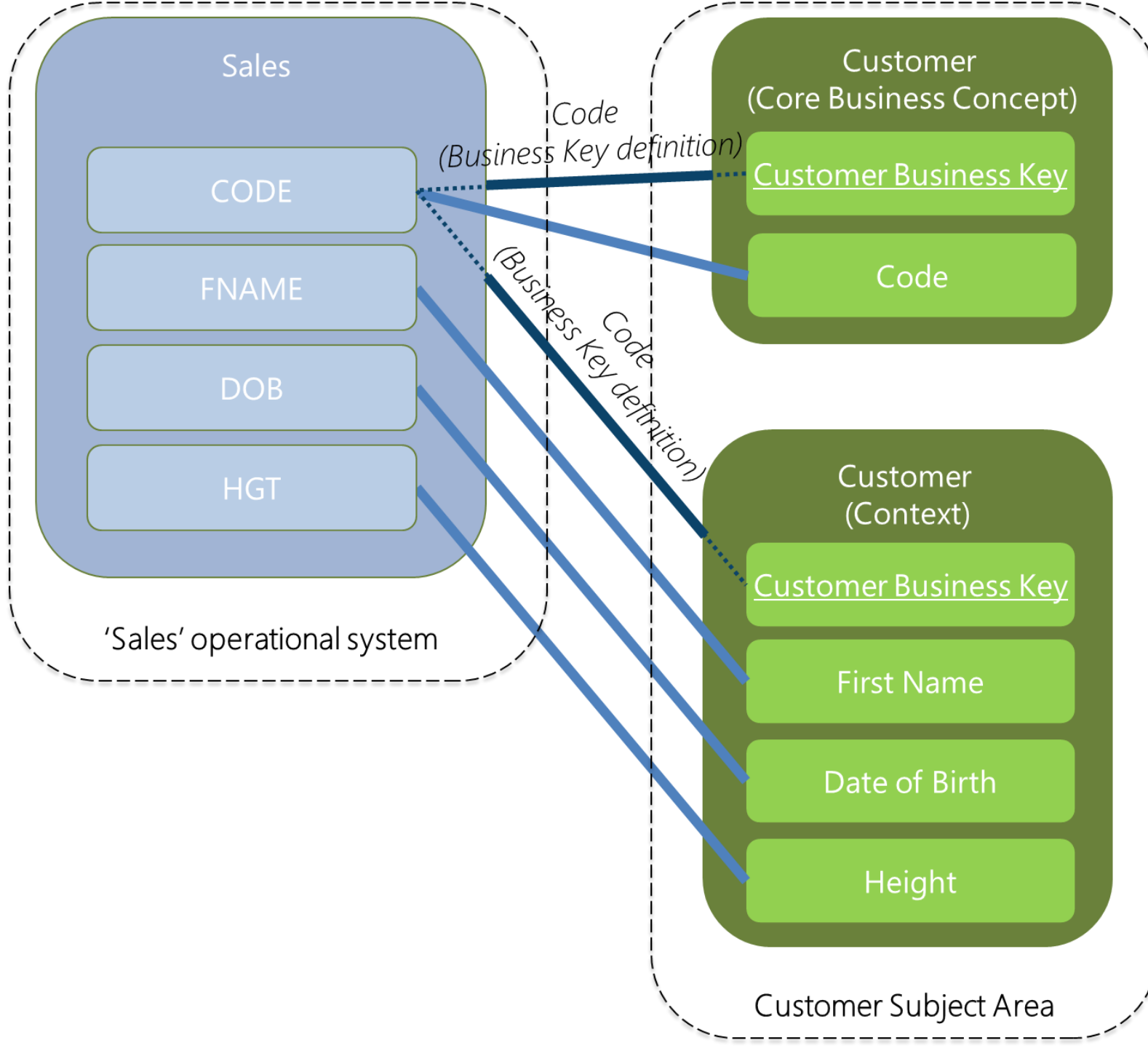
maps to

targetDataItem : dataItem

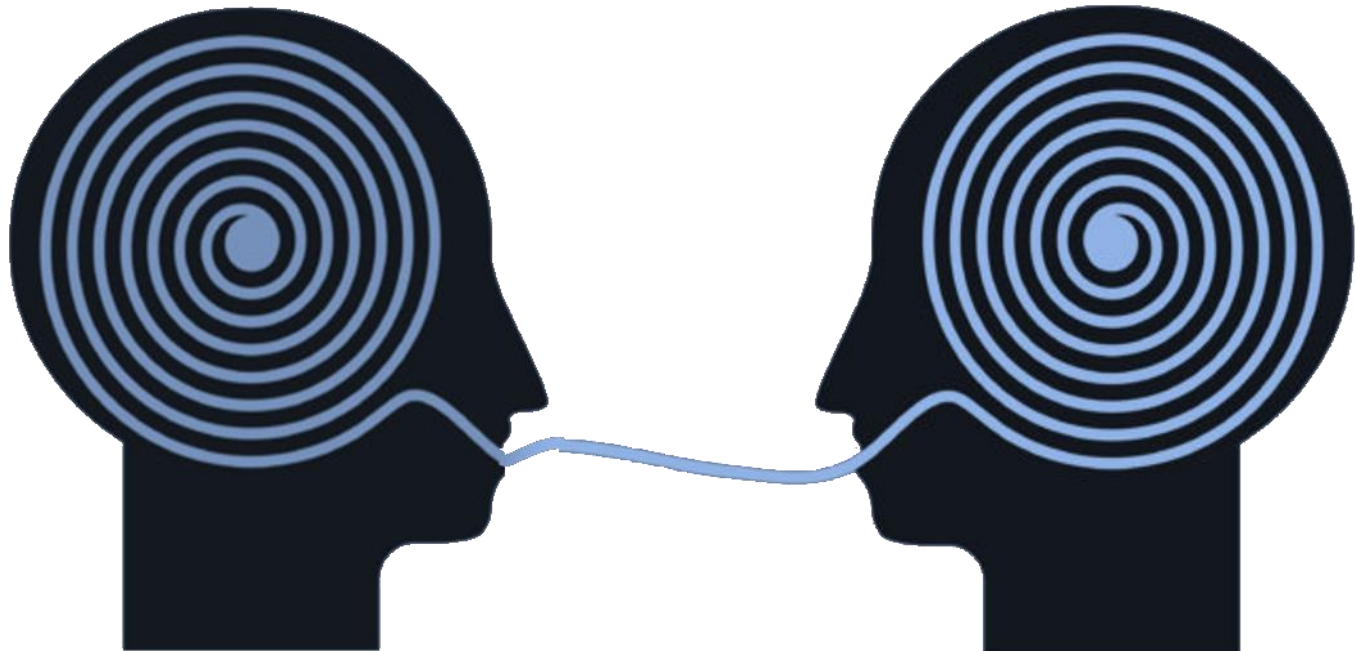
Sales (Operational System)



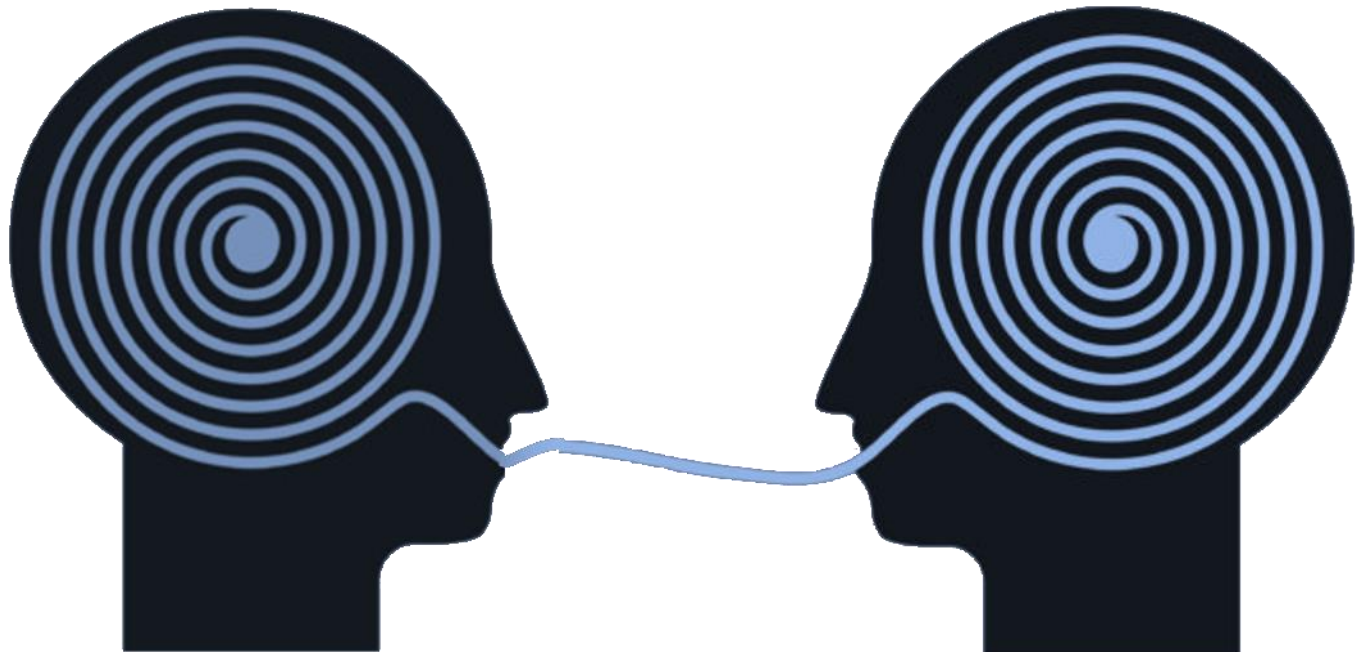
Customer (Subject Area)



Demonstration



Missing something?



```
"extension": {
  "$id": "#/definitions/extension",
  "title": "Key/Value pair extensions",
  "description": "Free-format key/value pair that can be used for additional context.",
  "type": "object",
  "required": [ "key" ],
  "properties": {
    "key": {
      "$id": "#/definitions/extension/properties/key",
      "title": "Extension key",
      "description": "The Key in a Key/Value pair.",
      "type": "string"
    },
    "value": {
      "$id": "#/definitions/extension/properties/value",
      "title": "Extension value",
      "description": "The Value in a Key/Value pair.",
      "type": "string"
    },
    "description": {
      "$id": "#/definitions/extension/properties/description",
      "title": "Extension description",
      "description": "Any additional information to explain the intent of extension key/value pair.",
      "type": "string"
    }
  }
}
```

Thank you!



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www.roelantvos.com/blog

<https://github.com/RoelantVos/Data-Warehouse-Automation-Metadata-Schema>

