

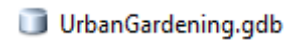
# Data Modelling in ArcMap for the Example „Urban Gardening“

(based on ArcMap version 10.2 of Esri)

## 1. Creating a file geodatabase

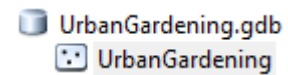
In a first step, a **File Geodatabase** with the name UrbanGardening.gdb is created.

*Catalog Window: right click on folder > New > File Geodatabase*



## 2. Creating a new feature class

In the next step, a new (point) **feature class** with the name UrbanGardening is added to the file geodatabase:



- type: *Point Features*
- coordinate system: *Projected Coordinate Systems > World > WGS 1984 Web Mercator (auxiliary sphere)*

For this feature class the following attributes are defined. The attribute names are specified in English and German (see image):

Field Name	Data Type
OBJECTID	Object ID
SHAPE	Geometry
City_Stadt	Text
Date_Datum	Date
Location_Lage	Text
Type_Art	Text
Size_Groesse	Text

## 3. Defining the different „domains“

For the defined ranges of location, type and size, for each case, a domain is created under **Database Properties** (level: file geodatabase). In order to allocate each domain to the according field easily, the *Field Name* corresponds to the *Domain Name*.

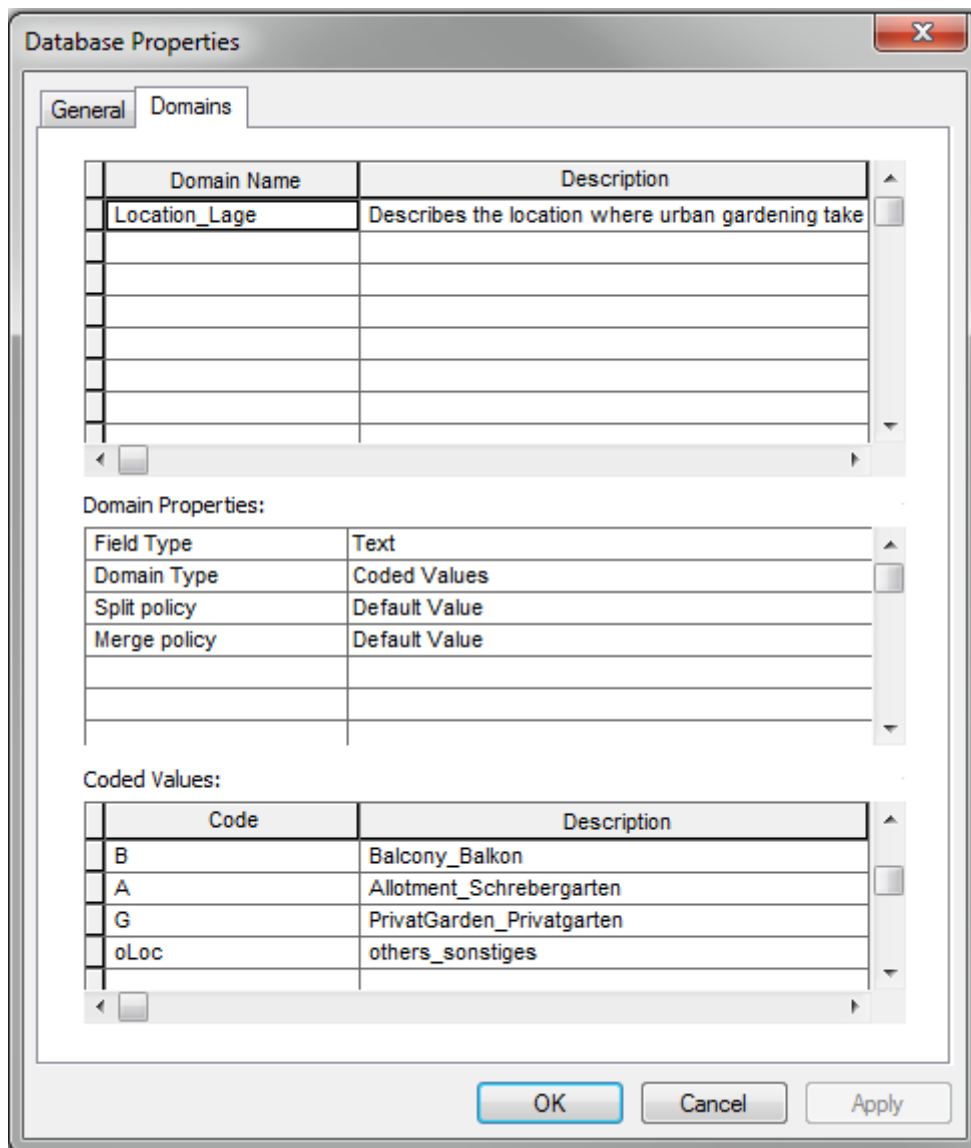
*Catalog Window: right click on UrbanGardening.gdb > Properties > Domains*

You can find detailed instructions on how to create domains in the ArcGIS resources, keywords: A quick tour of attribute domains

<http://resources.arcgis.com/en/help/main/10.2/index.html#//001s00000001000000>

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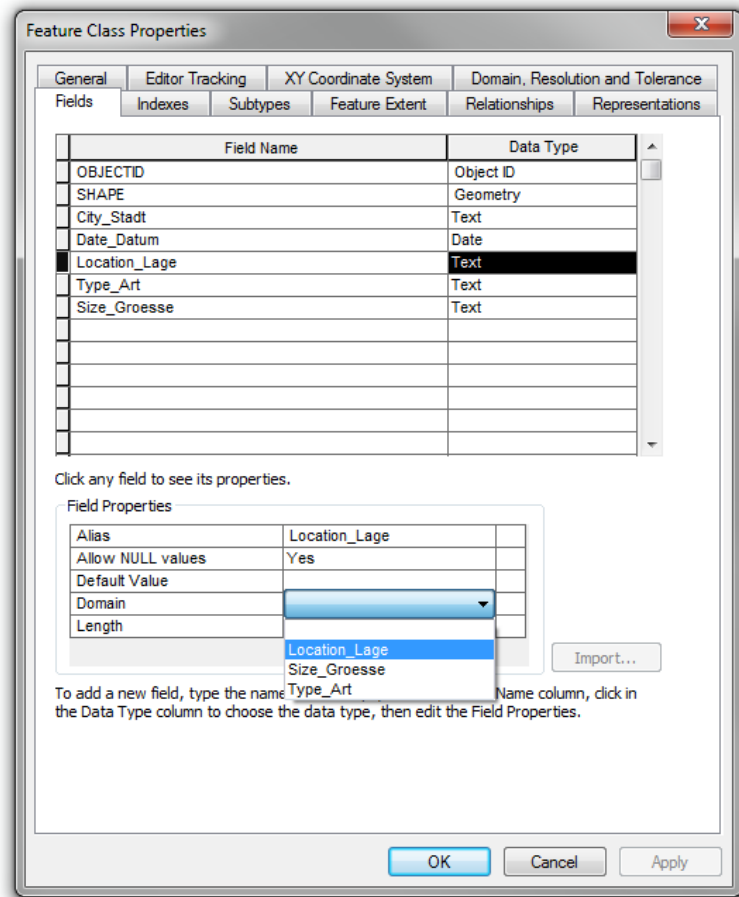
In the following image, you can see the structure of the domain *Location\_Lage*. For the pre-defined values, please, take a look at the conceptual data model.



With the same procedure the domains for *Type\_Art* and *Size\_Groesse* are defined.

#### 4. Assigning domain - attribute

In the next step, the assignment of the three domains to their respective attribute is carried out in the **Feature Class Properties** und **Fields > Field Properties**. It is important, that the respective attribute is chosen in the top field. The following image shows this for the attribute *Location\_Lage*.



#### 5. Reassessing the dataset

Finally, the new dataset is loaded into the Table of Contents (TOC) in ArcMap and the attribute table is used to control for correctness.