

Classes and properties



# The importance of class structure in Document object type

- Class is probably the most important metadata for the document
  - Always mandatory to be filled
  - Views document in correct virtual folders and views
  - Requires the user to add additional relevant metadata:
    - Every quote is related to a customer or prospect
    - Every contract is effective on a certain date



## Examples of class names

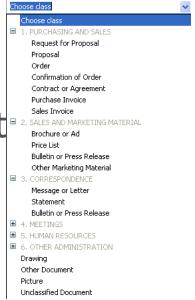
- ► Brochure
- Memo
- Manual or guide
- Drawing
- Report
- ► Contract
- ► Plan



### Class groups

Although class groups do not affect metadata structure or finding documents, it is usually good to create 5 to 10 of them

- Eases finding the class when saving
- Name class groups according to funct Sales Invoice 2. SALES AND MARKETING MATERIAL BROWN OF A PRINT OF A PRIN
  - Meetings
    - Memo, Meeting minutes
  - Production





## Typical pitfalls when designing class structure

- Creating too specific class names
  - specifying document should be done with properties instead of classes
    - e.g. report type or meeting type
  - selecting the correct class from a long list may be difficult
  - unambiguousness of class selection ruined
    - is this document *a memo* or *meeting minutes*?
- Naming class groups according to



### **Properties**

- Properties are class-specific and they are used to specify the object in more detail
  - To which customer / project is this document related?
  - Who is responsible for this agreement?
  - When does this agreement expire?
- ► Typically, a good amount of properties per class is between 5 to 7, with a maximum of 5 mandatory fields



## Data types of the properties

- Property data types in M-Files are the following:
  - Number (integer or real)
  - Text (single-line or multi-line)
    - normal text, email, hyperlink
  - Lookup or Multi-select lookup (drop-down)
  - Date
  - Time



## Value lists 1/2

- Using value lists whenever possible is recommended
  - The likelihood of typing errors and spelling mistakes decrease
  - Eases the use, quick to use
  - Improves abilities to create views
- Example value lists
  - Postal codes and cities





## Value lists 2/2

- Value lists can be hierarchical with another value list or object type:
  - Postal code and city
    - City property is automatically filled after selecting postal code
    - If city is selected first, postal code drop-down list is filtered accordingly
  - Product (object type) and product group (value list)



## Typical pitfalls with class-specific property definitions

- Too many or too few properties per class
  - Too few: difficult to sort and find documents as the number of documents in the vault increases
  - Too many: users think of M-Files as a complex system to use and / or refuse to fill in relevant metadata for objects
- ► The mandatory properties poorly defined:
  - Optional property: user forgets to fill in metadata that is critical in terms of finding documents



## Typical pitfalls with class-specific property definitions

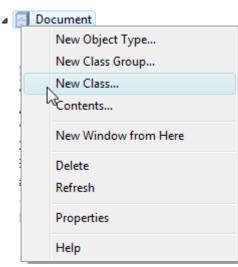
- Wrong data types complicate grouping documents in views
  - Lookup vs. text field
    - Virtual folders in *Customers by city* view
      - New York
      - > NY
      - > N.Y.
  - Text vs. Number
    - If proposal sales value is of data type number, segments

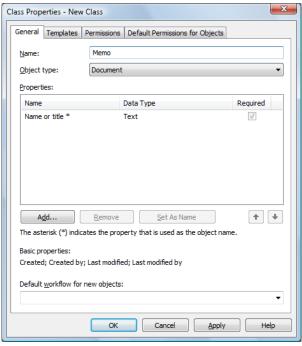


### Excersice 1

Create the following classes in the Training vault:

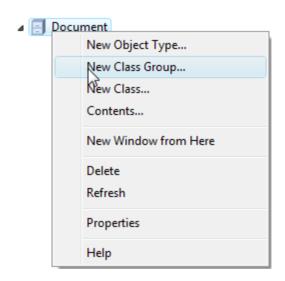
- Meeting minutes
- Proposal
- Order
- Contract
- Memo
- Report

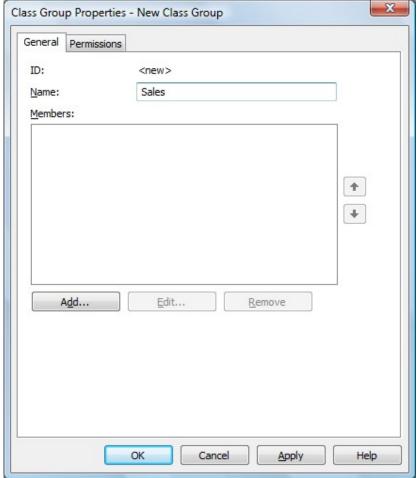






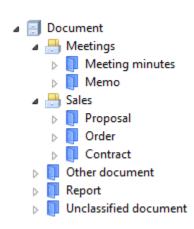
- Create class groups
  - Sales
  - Meetings





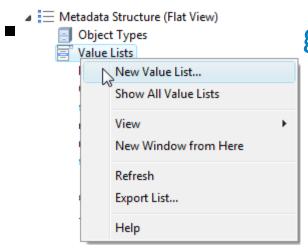


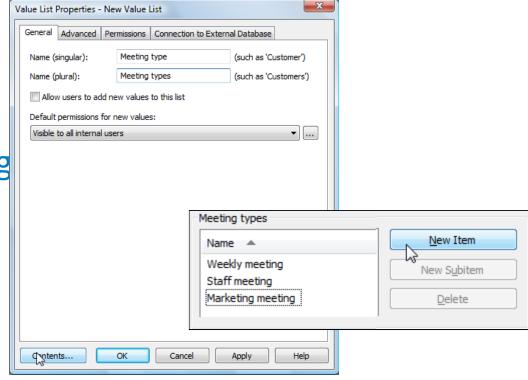
- Move the classes to suitable class groups by dragging and dropping them above the class group:
  - Sales
  - Proposal
  - Order
  - Contract
- Meetings





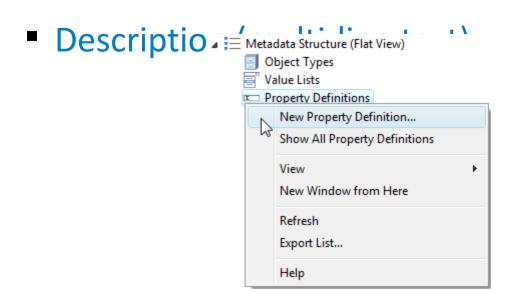
- Create a new value list Meeting types and add the following values in it:
  - Weekly meeting
  - Staff meeting

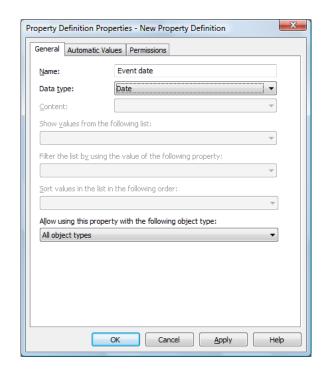






- Create the following properties
  - Event date (date)
  - Document date (date)

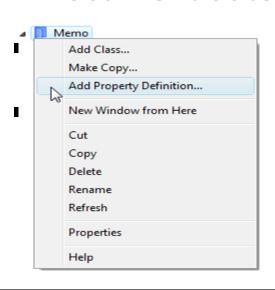


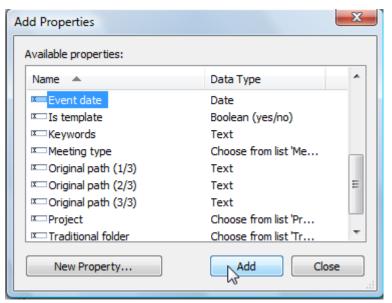




- Add the following properties into the Memo class:
  - Meeting type

Document date [Add Properties







- Select Class Properties of Memo and mark the following properties as required:
  - Event date
  - Meeting type
- Change the order of properties to as follows:
  - Name or title
  - Meeting type
  - Event date