VISUALISATION AdoScript

3. EXTERNAL COUPLING ADOXX FUNCTIONALITY

Sample on Visualisation with ADOscript

1. Count how many objects of class E have been modelled in actual model
2. Create a new model in a selected modelgroup with Target-Result as an object
3. The radius of the target result is the count of modelled Es.

=> The more Es have been modelled, the bigger is the resulting circle.

Visualisation AdoScript - Example

```
## Get active Model
CC "Modeling" GET_ACT_MODEL
SETL id_startmodel:(modelid)

# make an info box for debuggin reasons - convert value of id_actmodel
into a string
CC "AdoScript" INFOBOX ("Hello " + STR(id_startmodel) + "!")
title:"Start model id!"

## count how many objects of class "E" have been modelled in that model

# get the id of class "E"
CC "Core" debug GET_CLASS_ID classname:"E"
SETL id_class:(classid)

#---------------------------------------- This GET_CLASS_ID sets
following global variables
#---------------------------------------- [ecode:intValue]
[classid:intValue]

# get all objectss of class "E"
CC "Core" debug GET_ALL_OBJS_OF_CLASSID modelid:(id_startmodel)
classid:(id_class)
```

Visualisation AdoScript – Example (cont'd)

```
IF (LEN (objids) = 0)
{
  CC "AdoScript" ERRORBOX ("You have no instances of class '" + (clname)
+ "'!")
  EXIT
}
SETL debug count_of_objects: (tokcnt(objids))

CC "AdoScript" INFOBOX ("Hello " + STR(count_of_objects) + "!")
title:"Count of objects of class E!"

## Creating a new model
CC "CoreUI" MODEL_SELECT_BOX mgroup-sel without-models
title:"Zielmodellgruppe"
                              boxtext:"Selektieren Sie die Ziel-
Modellgruppe in der Datenbank:"

# ---------------------------------------- This MODEL SELECT BOC sets a
couple of global variables
# ---------------------------------------- [ modelids: idList |
threadids: idList ] [ mgroupids: idList ] [ appmodelids: idList ] [
extraValues ]
# ---------------------------------------- the global variable
mgroupids is used in CREATE MODEL
```

Visualisation AdoScript - Example (cont'd)

```
CC "Core" CREATE_MODEL modeltype:"Result-Type 1"
                       modelname:"My First own result"
                       version:"1.0"
                       mgroups:(mgroupids)

# open the new created model AND to make the new model ACTIVE
IF (ecode = 0)
{
   CC "Modeling" CREATE_WINDOW_FOR_LOADED_MODEL modelid:(modelid)
}

## Create objects in the new model

# get the model ide of the new model
CC "Modeling" GET_ACT_MODEL
SETL id_resultmodel:(modelid)

# make an info box for debuggin reasons - convert value of id_actmodel
into a string
CC "AdoScript" INFOBOX ("Hello " + STR(id_resultmodel) + "!")
title:"Result model id!"
```

Visualisation AdoScript - Example (cont'd)

```
# get the id of class "Result-of-Count"
CC "Core" debug GET_CLASS_ID classname:"Result-of-Count"
SETL id_class:(classid)

# create the object
CC "Core" debug CREATE_OBJ modelid:(id_resultmodel) classid:(id_class)
objname:"A new Result-of-Count"
SETL id_object:(objid)

IF (ecode != 0) {
    CC "AdoScript" ERRORBOX ("The object could not be created. \n"+
                             "Maybe one with the same name already
exists?")
}

# get the attribute "number of counts" of the class
CC "Core" GET_ATTR_ID classid:(id_class) attrname:"number of counts"
SETL id_attr:(attrid)
```

Visualisation AdoScript - Example (cont'd)

```
IF (ecode != 0)
{
   CC "AdoScript" ERRORBOX "The selected object does not contain an
attribute called \"Name\"!"
   EXIT
}

# set the name of the selected object
CC "Core" debug SET_ATTR_VAL objid:(id_object) attrid:(id_attr)
val:(count_of_objects)
IF (ecode != 0)
{
   CC "AdoScript" ERRORBOX "Could not set the attribute value!"
   EXIT
}

##
```