

A Language Built in its Native Framework

The Labnaf Strategy & Architecture Framework

Labnaf Language Transformer User Guide

See also the "Labnaf Language Transformer - Reference Guide"

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www.labnaf.one

WARNING

NEVER use the language transformer on your production repository before performing all necessary tests.

ALWAYS <u>test</u> your language transformer commands <u>using a</u> <u>repository backup.</u>

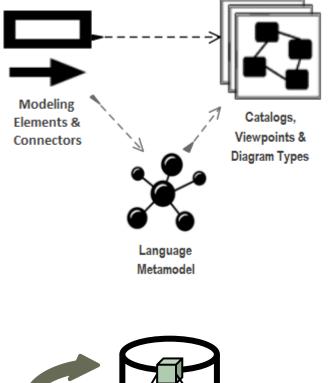
ALWAYS carefully check the resulting transformations and possible side effects. For example items could be deleted because you misspelled a type.

ALWAYS remember that type and stereotype names are <u>case sensitive</u>.

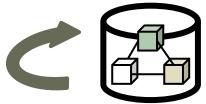
The Labnaf Language Transformer has been tested using Sparx Systems' Enterprise Architect versions 13.5 to 15.1

Labnaf Customization Steps

 Customize the language following your organization requirements

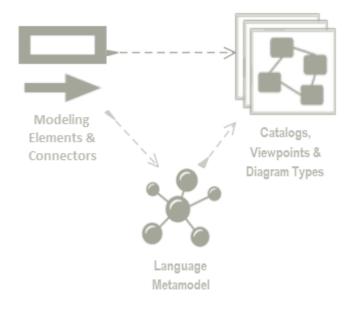


2. Adapt existing repository content

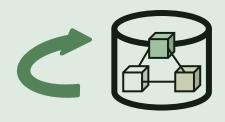


Labnaf Language Transformer

1. Customize the language



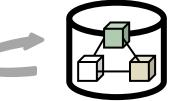
2. Adapt existing repository content



The Language Transformer adapts the language in existing repository content

- ChangeElementType
- ChangeConnectorType
- ChangeDiagramType
- ChangeDiagramTypesDefinedInCsv
- SynchronizeStereotypesExtended
- TemplateMetamodelFromActiveMetamodel
- TvRename
- TvDelete

See the Language Transformer Reference Guide for command specific information.

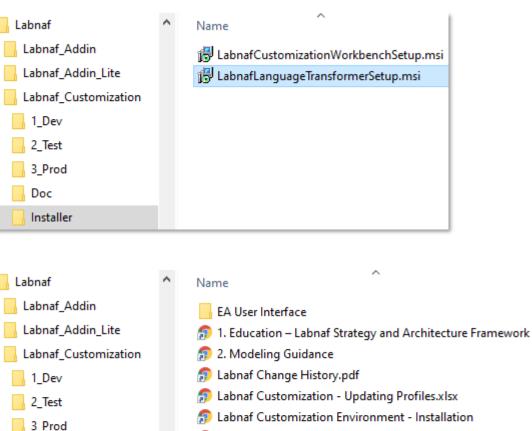


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Prerequisites

Install the Language Transformer

Unzip the sample language transformations



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Installer

Labnaf_Migration

Labnaf_PowerShell

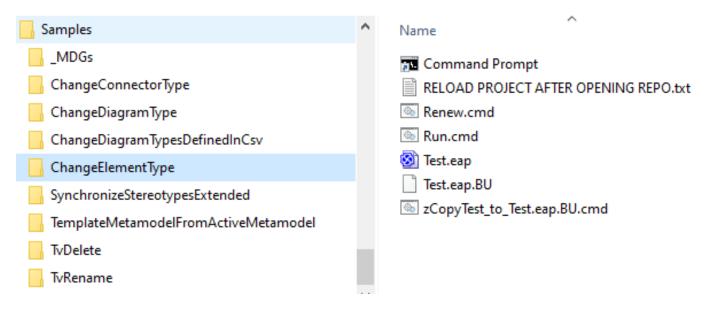
EA User Interface

SampleLanguageTrans

- 🐢 Labnaf Customization Workbench User Guide
- n 😥 Labnaf Language Transformer Reference Guide
- 🗊 Labnaf Language Transformer User Guide
- 🗊 Labnaf License Management
- n 🗊 Labnaf System Requirements
- n Optimizing EA's User Interface for Labnaf
- SampleLanguageTransformations.zip

Prerequisites

Review the content of the Sample language transformations folder that you unzipped



For each Language Transformer command, there is a sample folder with an example. Folder names are language transformer command names.

The folders have a common structure. The file names are about the same. The content of the "Run.cmd" and "Test.eap" files are specific to each folder/command.

Development Lifecycle

- To transform a language in a repository, you will need a combination of transformer commands.
- We advise to address each command separately and in that order:
 - ChangeElementType
 - ChangeConnectorType
 - ChangeDiagramType or ChangeDiagramTypesDefinedInCsv
 - TvRename
 - TvDelete

The development lifecycle is the same for each command.

Develop and Test Your Script

Adapt the test data as needed

- Execute **Renew.cmd**
 - to copy the backup database into a fresh **Test.eap**
- Open and edit Test.eap.
 - Replace the content by you own test data
 - Close Test.eap
- Execute "zCopyTest_to_Test.eap.BU.cmd"
 - to create a new backup database from Test.eap. So you will then be able to Renew the test database with your own data before running each test.

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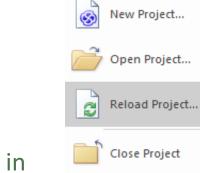
Develop and Test Your Script (cont.)

Edit and run the test script

- Edit **Run.cmd.** Put your own transformation commands
- Execute Run.cmd

See the language transformation results

- Open Test.eap
- In Sparx EA
 - Reload the project
 - => the shapes are updated in the diagram
 - Remove the shapes from the diagram and move the back in the diagram
 - => the icons are updated in the project browser



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Test on real data

- Backup your PROD repository into an Access repository (EAP).
- Replace "Test.eap" by that backup repository.
- Execute the transformation script "Run.eap" and see the result

Run your transformation script on the PROD repository

- Ensure nobody is working on the repository
- Make a backup of you PROD repository
- Replace "Test.eap" by a shortcut to your PROD repository.
- Execute the transformation script "Run.eap" and see the results

To align the tag grouping **in the repository** with the tag grouping **in your MDG**

- TemplateMetamodelFromActiveMetamodel (can also be used to create a new metamodel from scratch)
- Use SynchronizeStereotypesExtended

To create a new metamodel from scratch

Use TemplateMetamodelFromActiveMetamodel