



 **EGF Exercices – Pattern – UC2**
EGF 0.2.4

Benoît Langlois – Thales/EPM

Understanding how to develop patterns with EGF

Correction of the exercises

- ▶ Download the `org.eclipse.egf.usecase.pattern.uc2-egf0.2.4.zip` file on the [EGF wiki](#)

Prerequisite

- ▶ Installation of `egf 0.2.4`
- ▶ Understanding how to work with factory components, patterns
- ▶ Understanding the « reuse and customization » EGF tutorial

Problem Statement

- ▶ Writing a first factory component *Pattern_UC2_1_Main*:
 - ▶ containing two patterns for class and attribute
 - ▶ which displays for each class and attribute of an ecore file a message like
« Class [Class name]: Main: [Attribute name]_attribute »
- ▶ Next, writing a second factory component *Pattern_UC2_1_SinglePatternSubstitution* which:
 - ▶ redefines the attribute pattern
 - ▶ displays for each class and attribute of an ecore file a message like
« Class [Class name]: Sub1:[Attribute name]_attribute »

Learning

- ▶ Understanding the mechanism of Pattern substitution

Difficulty

- ▶ 3/5

Correction

- ▶ *Pattern_UC2_1_SinglePatternSubstitution.fcore*

Problem Statement

- ▶ Writing a factory component *Pattern_UC2_2_MergingPatternSubstitution*:
 - ▶ containing two patterns for class and attribute
 - ▶ which displays for each class and attribute of an ecore file a message like
« Sub2 Class [Class name]: Sub1:[Attribute name]_attribute+Sub2 »

Learning

- ▶ Understanding the merge of Pattern substitution

Difficulty

- ▶ 3/5

Correction

- ▶ `Pattern_UC2_2_MergingPatternSubstitution.fcore`