

An Overview of the EglDoc Tool

Louis Rose

[lmr109\[at\] cs.york.ac.uk](mailto:lmr109@cs.york.ac.uk)

Department of Computer Science,
The University of York

Introduction

The purpose of this document is to provide an overview and a usage example of the EglDoc tool, which allows the generation of meta-model documentation that may be viewed in a web browser. The tool may be used to produce documentation for any MOF 2.0 (EMF) conformant meta-model. EglDoc may be downloaded from <http://www.eclipse.org/gmt/epsilon/doc/examples.php>

Generating documentation

In order to generate documentation, invoke the following command:

```
> java -jar EglDoc.jar MetaModelPath
```

Where the last argument is the path to the meta-model file from which documentation should be generated.

Once the command completes successfully, the current working directory will contain a number of html files. Each contains details of a package or classifier in the meta-model, and may look similar to the following when viewed in a web browser:

OO Meta-Model

Controls
☒ Show inherited features

Packages
 OO

Datatypes
 Boolean
 String
 VisibilityEnum

Classes
 AnnotatedElement
 Annotation
 Attribute
 Class
 Classifier
 Datatype
 ExternalClass
 Feature
 Model
 NamedElement
 Operation
 Package
 PackageableElement
 Parameter
 Reference
 StructuralFeature

Package: OO
Class Attribute
 Inherits from: StructuralFeature

Attributes

	Name	Type	Changeable	Required	Description
↑	isMany	Boolean	true	true	
↑	name	String	true	true	
↑	visibility	VisibilityEnum	true	true	

References

	Name	Type	Changeable	Required	Ordered	Unique	Cardinality	Description
↑	annotations	Annotation	true	false	false	true	0..*	
↑	owner	Class	true	true	false	true	1..1	
↑	type	Classifier	true	true	false	true	1..1	

Generated using EglDoc
 Validate XHTML | CSS

The sidebar to the left allows navigation between elements of the meta-model.

Controlling the Output Destination

The destination switch may be used to specify an alternative directory into which the documentation should be generated. For example, the following command may be used to generate documentation directly to the c:\web directory:

```
> java -jar EglDoc.jar -destination c:/web/ MetaModelPath
```

Using GraphViz to Generate a Class Diagram

EglDoc optionally supports the ability to generate a class diagram from input meta-models, which are then embedded into the documentation. In order to utilise this functionality, EglDoc must be able to invoke the dot executable, which is part of the GraphViz tool¹.

If GraphViz is installed on your system, documentation containing embedded class diagrams may be generated by using a command such as:

```
> java -jar EglDoc.jar -dot c:/Graphviz/bin/dot.exe MetaModelPath
```

Annotating Meta-Models for Richer Documentation

EglDoc supports annotation of meta-model elements, via the doc annotation. The details with the following keys can be interpreted by EglDoc:

Key	Applies To	Value	Description
description	EClass EDataType EAttribute EOperation EReference EEnumLiteral	Any text.	Provides a textual description of the annotated element.
version	EClass EDataType	Any text.	Indicates the current version of the annotated element. Equivalent to the Javadoc @version tag.
see	EClass EDataType	A comma separated list of EClassifier elements.	Denotes those classifiers that have documentation that is related to that of the annotated element. Equivalent to the Javadoc @see tag.

¹ Graphviz may be downloaded from: <http://www.graphviz.org/>