

# Chapter 1

## Code Sample

```
;; Jess cannot support multiple interface inheritance, so must refer to
;; EMF-created Impl classes directly
(import org.openiaml.model.test.iaml.impl.*)
(deftemplate BooleanPropertyImpl      (declare (from-class BooleanPropertyImpl)))
(deftemplate CheckboxImpl             (declare (from-class CheckboxImpl)))
(deftemplate PageImpl                 (declare (from-class PageImpl)))

;; factory
(deftemplate IamlTestFactoryImpl      (declare (from-class IamlTestFactoryImpl)))

;; invalid package imports are OK
(import org.openiaml.model.test.iaml.invalid.*)

;; uncomment to print out debug of engine activity
/watch all)

(defrule model-completion-example
  "Example rule of model completion."
  (BooleanPropertyImpl (OBJECT ?property))
  (PageImpl (OBJECT ?container))
  (IamlTestFactoryImpl (OBJECT ?factory))
  (test
    ((?container getChildren) contains ?property)
  )
  (test
    (eq (?property getEditor) nil)
  )
  =>
  ((System.out) println "Creating checkbox for:")
  ((System.out) println ?property)
  (bind ?o (?factory createCheckbox))    ;; need to use EMF factory to create new instances
```

```

    (?o setFor ?property)
    (?o setIsGenerated TRUE)
    ((?container getEditors) add ?o)    ;; add to model
    (add ?o)                            ;; add to working memory
    ((System.out) println "Done")
)

(defglobal ?*time* = (time))
(set-reset-globals FALSE)
(defun run-n-times (?n)
  (while (> ?n 0) do
    (reset)
    (bind ?n (- ?n 1))))

(run-n-times 1)

(printout t "Elapsed time: " (integer (- (time) ?*time*)) crlf)
;; (exit)

```

# **Bibliography**