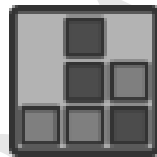


# ADAMS

Advanced **D**ata mining **A**nd **M**achine learning **S**ystem

Module: adams-meta



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# Chapter 1

## Dynamic use of templates

The templating mechanism described in the “core-module” manual, shows how to speed up the inception of new flows. But the templates can also be used in a dynamic way at runtime using the following actors:

- *TemplateStandalone* – for templates that generate standalones
- *TemplateSource* – for templates that generate sources
- *TemplateTransformer* – for templates that generate transforming sub-flows
- *TemplateSink* – for templates that generate sinks

The sub-flow generation is done in a lazy way, i.e., only when the aforementioned template actor is executed, the template is generated. The sub-flow is used till either the end of the flow execution or if a variable changes that is attached to the template itself. In the latter case, the sub-flow gets re-generated the next time the template actor gets executed. This dynamic sub-flow generation in conjunction with variable use, allows to adapt and change the flow at runtime. The example *adams-core-template.flow* demonstrates this.





## Chapter 2

# Copying global actors

Global actors can not only be used as synchronization points in the flow. It is also possible to *copy* them, using them as templates. If you don't want to use external flows, but still need to use the same sub-flow multiple times and avoid the bottle neck of synchronous execution, then you can use one of the following actors to create a copy of the global at the very same location:

- *CopyGlobalStandalone* – copies a global standalone
- *CopyGlobalSource* – copies a global source
- *CopyGlobalTransformer* – copies a global transformer
- *CopyGlobalSink* – copies a global sink



# Bibliography

- [1] *ADAMS* – Advanced Data mining and Machine learning System  
<http://adams.cms.waikato.ac.nz/>