

Developing Components

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Developing Components

Introduction

Kabeja is split into different types of components. Examples for components are the PostProcessors, SAXGenerators, SAXFilters, SAXSerializers. This separation should help you to add more functionality to Kabeja.

The Kabeja project started as dxf2svg conversion tool, this explains the used name "DXFDocument" below. In a later release we will change this to a more generic name. We adapted the pipeline processing from the Web Development Framework [Cocoon](#). So you will find similarities here.

Parser

A Parser will create the data ([DXFDocument](#)) for the next step of processing. The Kabeja project provides at the moment only a DXF parser.

See [Parser](#)

PostProcessor

A PostProcessor will process on the ([DXFDocument](#)) and can change, add or remove data from the CAD data.

See [PostProcessor](#).

SAXGenerator

A SAXGenerator converts the given CAD data ([DXFDocument](#)) to XML (SAX events).

See [SAXGenerator](#).

SAXFilter

A SAXFilter will work on the XML SAX events and can change, add or remove XML SAX events.

See [SAXFilter](#).

SAXSerializer

A SAXSerializer will output the XML SAX events to a given stream.

See [SAXSerializer](#).

StreamGenerator

A StreamGenerator will output the CAD data ([DXFDocument](#)) direct to a given stream.

At the moment this kind of component is not supported in the processing system. This will be added in the next release.

See [StreamGenerator](#).

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Component Configuration

You can register your component in the processing configuration file ("conf/process.xml"). Add your component in the right section and put your component.jar into the "dist/lib" directory of kabeja. Then you only need a processing pipeline, where you use the component.

```
<?xml version="1.0" encoding="UTF-8"?>
<processing xmlns="http://kabeja.org/processing/1.0"
  xmlns:xi="http://www.w3.org/2001/XInclude">
  <!--+
    | The processing configuration
    +-->
  <configuration>
  <!--+
    |not yet implemented, but will follow: the parser configuration
    |<xi:include href="parser.xml"/>
    +-->

  <postprocessors>
  <postprocessor class="org.kabeja.processing.BoundsDebugger" name="bounds.debugger"/>
  ...
  </postprocessors>

  <filters>
  <filter class="org.kabeja.batik.tools.ImageBase64Encoder" name="image"/>
  ...
  </filters>

  <serializers>
  <serializer class="org.kabeja.xml.SAXPrettyOutputter" name="svg"/>
  ...
  </serializers>

  <generators>
  <generator class="org.kabeja.svg.SVGGenerator" name="svg"/>
  </generators>
```