the configuration of fop

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1. install asciidoc and fop

• install some softwares run command:

\$ emerge asciidoc fop source-highlight

2. configuration of fop for outputing chinese pdf

2.1. use the TTFReader to make font metrics

use the TTFReader to make font metrics. (see: setup fop font [http://xmlgraphics.apache.org/fop/0.95/fonts.html])

· about TTFReader

In my enviorment, use it easily by a shell.(save the following as a shell)

```
#!/bin/sh
java -cp /usr/share/fop/lib/fop.jar:\
```

```
/usr/share/avalon-framework-4.2/lib/avalon-framework.jar:\
/usr/share/commons-logging/lib/commons-logging.jar:\
/usr/share/commons-io-1/lib/commons-io.jar:\
/usr/share/xmlgraphics-commons-1.3/lib/xmlgraphics-commons.jar\
org.apache.fop.fonts.apps.TTFReader $*
```

make font metrics

```
$ ./TTFReader -ttcname SimSum /usr/share/fonts/MS_fonts/simsun.ttc ./simsun.xml
$ ./TTFReader /usr/share/fonts/MS_fonts/msyh.ttf ./msyh.xml
$ ...(make others fonts metrics)
```

• register Fonts with FOP make a the file named *fop.xconf* look like listed. [see: fop.xconf]

```
<fonts>
<!-- embedded fonts -->
    <font metrics-url="/etc/fop/simsun.xml" kerning="yes"</pre>
                    embed-url="/usr/share/fonts/MS_fonts/simsun.ttc">
   <font-triplet name="SimSun" style="normal" weight="normal"/>
    <font-triplet name="SimSun" style="normal" weight="bold"/>
    <font-triplet name="SimSun" style="italic" weight="normal"/>
    <font-triplet name="SimSun" style="italic" weight="bold"/>
</font>
<font metrics-url="/etc/fop/simhei.xml" kerning="yes"</pre>
                    embed-url="/usr/share/fonts/MS fonts/simhei.ttf">
    <font-triplet name="SimHei" style="normal" weight="normal"/>
    <font-triplet name="SimHei" style="normal" weight="bold"/>
    <font-triplet name="SimHei" style="italic" weight="normal"/>
    <font-triplet name="SimHei" style="italic" weight="bold"/>
    </font>
<font metrics-url="/etc/fop/wqy-zenhei.xml" kerning="yes"</pre>
                    embed-url="/usr/share/fonts/wqy-zenhei/wqy-zenhei.ttc">
    <font-triplet name="WenQuanYi Zen Hei" style="normal" weight="normal"/>
    <font-triplet name="WenQuanYi Zen Hei" style="normal" weight="bold"/>
    <font-triplet name="WenQuanYi Zen Hei" style="italic" weight="normal"/>
    <font-triplet name="WenQuanYi Zen Hei" style="italic" weight="bold"/>
</font>
<font metrics-url="/etc/fop/wqy-zenhei-mono.xml" kerning="yes"</pre>
                    embed-url="/usr/share/fonts/wqy-zenhei.ttc">
    <font-triplet name="WenQuanYi Zen Hei Mono" style="normal" weight="normal"/>
    <font-triplet name="WenQuanYi Zen Hei Mono" style="normal" weight="bold"/>
    <font-triplet name="WenQuanYi Zen Hei Mono" style="italic" weight="normal"/>
    <font-triplet name="WenQuanYi Zen Hei Mono" style="italic" weight="bold"/>
<font metrics-url="/etc/fop/msyh.xml" kerning="yes"</pre>
                    embed-url="/usr/share/fonts/MS_fonts/msyh.ttf">
    <font-triplet name="Microsoft YaHei" style="normal" weight="normal"/>
    <font-triplet name="Microsoft YaHei" style="normal" weight="bold"/>
    <font-triplet name="Microsoft YaHei" style="italic" weight="normal"/>
    <font-triplet name="Microsoft YaHei" style="italic" weight="bold"/>
</font>
<font metrics-url="/etc/fop/wqy-microhei.xml" kerning="yes"</pre>
                    embed-url="/usr/share/fonts/wqy-microhei/wqy-microhei.ttc">
   <font-triplet name="WenQuanYi Micro Hei" style="normal" weight="normal"/>
    <font-triplet name="WenQuanYi Micro Hei" style="normal" weight="bold"/>
    <font-triplet name="WenQuanYi Micro Hei" style="italic" weight="normal"/>
    <font-triplet name="WenQuanYi Micro Hei" style="italic" weight="bold"/>
</font>
<font metrics-url="/etc/fop/wqy-microhei-mono.xml" kerning="yes"</pre>
```

3. Configure the style sheet

• see fop.xsl file.

```
<?xml version='1.0'?>
<xsl:stylesheet version="1.0"</pre>
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    xmlns:fo="http://www.w3.org/1999/XSL/Format">
<xsl:import href="/usr/share/asciidoc/docbook-xsl/fo.xsl"/>
<xsl:param name="paper.type" select="'A4'"/>
<!--<xsl:param name="110n.gentext.language" select="'zh_cn'"/>-->
<xsl:param name="body.font.family">
        Microsoft YaHei,
        WenQuanYi Zen Hei,
        SimSun, Courier
        </xsl:param>
<xsl:param name="monospace.font.family">
        Microsoft YaHei,
        Courier,
        WenQuanYi Zen Hei Mono
        </xsl:param>
<xsl:param name="title.font.family">
        WenQuanYi Micro Hei Mono,
        Courier,
        SimHei
</xsl:param>
</xsl:stylesheet>
```

4. Use it

• set option --xsl-file and --fop-opts, if it contain chinese character.