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<?xml version="1.0"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<!-- stylesheet of the data format version 6 --&gt;
&lt;xsl:template match="/"&gt;
&lt;html&gt;
&lt;head&gt;
&lt;title/&gt;

<!-- xxxx style definitions
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxx --&gt;

&lt;style type="text/css"&gt;
    h1 {font-family: Verdana; font-size: 25px; color: #00c; }
    h3 {font-family: verdana; color: #00c}
    p {font-family: Verdana; font-size: 14px; font-weight: bold; }
    span {font-family: Verdana; font-size: 14px; font-weight: normal; }
    table {font-family: verdana; font-size: 14px; border=0;
border-collapse: collapse; }
    th {text-align: left; border: 1px solid gray; padding-left: 5px;
padding-right: 5px}
        th without {text-align: left; border: 0px; padding-left: 5px;
padding-right: 5px}
            th without_in {color: #00c; text-align: left; border: 0px; padding-left: 5px;
padding-right: 5px}
                th.matrix {text-align: left; vertical-align: top; border: 1px solid
gray; padding-left: 0px; padding-right: 5px}
                td {text-align: left; border: 1px solid gray; padding-left: 5px;
padding-right: 5px}
                    td without {text-align: left; border: 0px; padding-left: 5px;
padding-right: 5px}
                        td.matrix {text-align: left; border: 1px solid gray; padding-left: 5px;
padding-right: 5px}
                            td.genotype {font-family: Courier; font-size: 18px; text-align: left;
border: 1px solid gray; padding-left: 5px; padding-right: 5px}
                            td.genotype2 {font-family: Courier; font-size: 18px; text-align: left;
border: 0px; padding-left: 5px; padding-right: 5px}
&lt;/style&gt;
&lt;/head&gt;

&lt;body&gt;
&lt;xsl:apply-templates/&gt;
&lt;/body&gt;
&lt;/html&gt;
&lt;/xsl:template&gt;
</pre>

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<!-- xxxx header
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xxxxxxxxxxxxxxxxxxx --&gt;

&lt;xsl:template match="header"&gt;
&lt;h1&gt;
    &lt;xsl:value-of select="@title"/&gt;
&lt;/h1&gt;

&lt;table&gt;
&lt;tr&gt;
    &lt;th class="without"&gt;Organism: &lt;/th&gt;
    &lt;td class="without"&gt;
        &lt;xsl:value-of select="organism"/&gt;
    &lt;/td&gt;
&lt;/tr&gt;

&lt;tr&gt;
    &lt;th class="without"&gt;Number of populations: &lt;/th&gt;
</pre>

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<td class="without">
    <xsl:value-of select="numPop"/>
</td>
</tr>

<xsl:if test="numReads">
    <tr>
        <th class="without"> Number of reads: </th>
        <td class="without">
            <xsl:value-of select="numReads"/>
        </td>
    </tr>
</xsl:if>

<xsl:if test="aligned">
    <tr>
        <th class="without"> Are sequences aligned: </th>
        <td class="without">
            <xsl:value-of select="aligned"/>
        </td>
    </tr>
</xsl:if>

<xsl:if test="missing">
    <tr>
        <th class="without"> Symbol for missing data: </th>
        <td class="without">
            <xsl:value-of select="missing"/>
        </td>
    </tr>
</xsl:if>

<xsl:if test="gap">
    <tr>
        <th class="without"> Symbol for a gap: </th>
        <td class="without">
            <xsl:value-of select="gap"/>
        </td>
    </tr>
</xsl:if>

<xsl:if test="gameticPhase">
    <tr>
        <th class="without"> Gametic phase: </th>
        <td class="without"> known </td>
    </tr>
</xsl:if>

<xsl:if test="recessiveData">
    <tr>
        <th class="without"> recessive data: </th>
        <td class="without"> yes </td>
    </tr>
</xsl:if>

</table>
</xsl:template>

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<!-- xxxx loci
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<xsl:template match="loci">

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<h3>
<br />
Loci :
</h3>
<p>
<xsl : i f test="Loci Num">
    Number of Loci :
    <span>
        <xsl : val ue-of select="Loci Num" />
        <br />
    </span>
</xsl : i f>

<xsl : i f test="Loci DataType">
    Data type of Loci :
    <span>
        <xsl : val ue-of select="Loci DataType" />
        <br />
    </span>
</xsl : i f>
</p>

<table>
<xsl : for-each select="Locus">
    <tr>
        <th class="wthout_Ind">
            id: <xsl : val ue-of select="@id" />
        </th>
    </tr>

    <xsl : i f test="LocusDataType">
        <tr>
            <td class="wthout"> data type: </td>
            <td class="wthout">
                <xsl : val ue-of select="LocusDataType" />
            </td>
        </tr>
    </xsl : i f>

    <xsl : i f test="LocusChromosom">
        <tr>
            <td class="wthout"> at chromosom: </td>
            <td class="wthout">
                <xsl : val ue-of select="LocusChromosom" />
            </td>
        </tr>
    </xsl : i f>

    <xsl : i f test="LocusLocation">
        <tr>
            <td class="wthout"> Location: </td>
            <td class="wthout">
                <xsl : val ue-of select="LocusLocation" />
            </td>
        </tr>
    </xsl : i f>

    <xsl : i f test="LocusGenic">
        <tr>
            <td class="wthout"> Locus is genic: </td>
            <td class="wthout">
                <xsl : val ue-of select="LocusGenic" />
            </td>
        </tr>
    </xsl : i f>

    <xsl : i f test="LocusLength">
        <tr>
            <td class="wthout"> Length: </td>
            <td class="wthout">

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        <xsl:value-of select="locusLength" />
    </td>
</tr>
</xsl:if>

<xsl:if test="locusLinks">
<tr>
    <td class="without"> links: </td>
    <td class="without">
        <xsl:value-of select="locusLinks" />
    </td>
</tr>
</xsl:if>

<xsl:if test="locusComments">
<tr>
    <td class="without"> comments: </td>
    <td class="without">
        <xsl:value-of select="locusComments" />
    </td>
</tr>
</xsl:if>

<tr>
    <td class="without">
        <br />
    </td>
</tr>

</xsl:for-each>
</table>
</xsl:template>

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<! -- xxxx population
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxx -->

<xsl:template match="population">
<h3>
<br />
Population: <xsl:value-of select="@name"/>
</h3>
<p> Population size:
<span>
<xsl:value-of select="popSize" />
<br />
</span>

<xsl:if test="popGeogCoord">
    Geographical coordination of the population:
    <span>
        <xsl:value-of select="popGeogCoord"/>
    </span>
    <br />
</xsl:if>

<xsl:if test="popLingGroup">
    Linguistic group of the population:
    <span>
        <xsl:value-of select="popLingGroup"/>
    </span>
    <br />
</xsl:if>

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<! -- xxxx loci begin for alignment (variable setting) xxxxxxxxxxxx -->

<xsl : variable name="min">
  <xsl : for-each select="ind/read/start">
    <xsl : sort select=". ." />
    <xsl : if test="position() = 1">
      <xsl : value-of select=". ." />
    </xsl : if>
  </xsl : for-each>
</xsl : variable>

<! -- xxxxxxxxxxxxxxxx -->

<xsl : if test="popNumReads">
  Number of reads:
  <span>
    <xsl : value-of select="popNumReads"/>
  </span>
  <br />
</xsl : if>

<xsl : if test="popLocus">
  Locus:
  <span>
    <xsl : value-of select="popLocus" />
  </span>
  <br />
  <xsl : if test="ind/read/start">
    Locus start:
    <span>
      <xsl : value-of select="$min" />
    </span>
    <br />
  </xsl : if>
</xsl : if>

<! -- xxxx variable if indFreq tag exist or not xxxxxxxx -->

<xsl : variable name="Freq">
  <xsl : choose>
    <xsl : when test="ind/indFreq">
      1
    </xsl : when>
    <xsl : otherwise>
      0
    </xsl : otherwise>
  </xsl : choose>
</xsl : variable>

<! -- xxxxxxxxxxxxxxxxxxxxxxxx -->

</p>
<table>
  <xsl : apply-templates select="id" />
  <xsl : apply-templates select="ind">
    <xsl : with-param name="minimum" select="$min + 1" />
    <xsl : with-param name="frequency" select="$Freq" />
  </xsl : apply-templates>
</table>
</xsl : template>

<! --
xxxx id

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<xsl : template match="id">
  <xsl : if test="position()=1">
    <tr>
      <th>identifier</th>
      <th>frequency</th>
      <xsl : if test="data">
        <th>
          data
        xxx test if the popLoci siblings before the current node exist xxx
        <xsl : if test="preceding-sibling::popLoci">
          <span>
            <br />
            (<xsl : value-of select="preceding-sibling::popLoci" />)
          </span>
        </xsl : if>
        </th>
      </xsl : if>
    </tr>
  </xsl : if>

<tr>
  <td> <xsl : value-of select="@name"/> </td>
  <td> <xsl : value-of select="idFreq" /> </td>
  <xsl : if test="data">
    <td class="genotype">
      <xsl : for-each select="data">
        <xsl : value-of select=". " />
        <br />
      </xsl : for-each>
    </td>
  </xsl : if>
</tr>
</xsl : template>

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<! -- xxxx ind
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx -->

<xsl : template match="ind">
  <xsl : param name="minimum" />
  <xsl : param name="frequency" />

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<! -- xxx align over one individual (different loci)xxxxxxxxxxxxxx-->

<xsl : choose>
  <xsl : when test="indLocus|indLoci">
    <tr>
      <th class="without_Ind"> Individual <xsl : value-of select="@name" />:
    </th>
    </tr>
    <xsl : if test="indGeogCoord">
      <tr>
        <td class="without"> geographic coordination: </td>
        <td class="without"> <xsl : value-of select="indGeogCoord" />
        </td>
      </tr>
    </xsl : if>

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<xsl:if test="indLingGroup">
  <tr>
    <td class="without"> linguistic group: </td>
    <td class="without">
      <xsl:value-of select="indLingGroup" />
    </td>
  </tr>
</xsl:if>

<xsl:if test="indLocus">
  <tr>
    <td class="without"> locus: </td>
    <td class="without">
      <xsl:value-of select="indLocus" />
    </td>
  </tr>
</xsl:if>

<!-- xxxx loci start for alignment (variable setting) xxxxxxxx -->

<xsl:variable name="min">
  <xsl:for-each select="read/start">
    <xsl:sort select=". " />
    <xsl:if test="position() = 1">
      <xsl:value-of select=". "/>
    </xsl:if>
  </xsl:for-each>
</xsl:variable>

<!-- xxxxxxxxxxxxxxxxxxxxxx -->

<xsl:if test="$min > 0">
  <tr>
    <td class="without"> locus start: </td>
    <td class="without">
      <xsl:value-of select="$min" />
    </td>
  </tr>
</xsl:if>

<xsl:if test="indFreq">
  <tr>
    <td class="without"> frequency of this individual: </td>
    <td class="without">
      <xsl:value-of select="indFreq" />
    </td>
  </tr>
</xsl:if>

<xsl:if test="indNumReads">
  <tr>
    <td class="without"> number of strains: </td>
    <td class="without">
      <xsl:value-of select="indNumReads" />
    </td>
  </tr>
</xsl:if>

<tr>
  <td class="without"> data: </td>

<!-- xxxx data alignment xxxxxxxxxxxxxxxx -->
<td class="genotype2">
  <xsl:choose>
    <xsl:when test="read">

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<xsl : apply-templates select="read">
    <xsl : with-param name="minimum" select="$min + 1" />
</xsl : apply-templates>
</xsl : when>

<!-- aligned data -->
<xsl : otherwise>
    <xsl : for-each select="data">
        <xsl : value-of select="." />
        <br />
    </xsl : for-each>
</xsl : otherwise>
</xsl : choose>
</td>
</tr>

<tr>
    <td class="without">
        <br />
    </td>
</tr>

</xsl : when>

<!-- xxx align over one population (ind same loci) xxxxxxxxxxxxxxxxxxxx-->
<xsl : otherwise>
    <xsl : if test="position()=1">
        <tr>
            <th>individual </th>
            <xsl : if test="indGeogCoord">
                <th>geographic coordination </th>
            </xsl : if>
            <xsl : if test="indLingGroup">
                <th>linguistic group </th>
            </xsl : if>
            <xsl : if test="$frequency = 1">
                <th>frequency </th>
            </xsl : if>
            <xsl : if test="indNumReads">
                <th>number of reads </th>
            </xsl : if>
            <xsl : if test="data">
                <th>
                    data
                    <!-- xxx test if the popLoci siblings before the current node
exist xxx -->
                    <xsl : if test="preceding-sibling::popLoci">
                        <span>
                            <br />
                            (<xsl : value-of select="preceding-sibling::popLoci" />)
                        </span>
                    </xsl : if>
                </th>
            </xsl : if>
            <xsl : if test="read/data">
                <th>data </th>
            </xsl : if>
        </tr>
    </xsl : if>

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        </tr>
</xsl : if>

<tr>
    <td> <xsl : value-of select="@name"/> </td>

    <xsl : if test="indGeogCoord">
        <td>
            <xsl : value-of select="indGeogCoord" />
        </td>
    </xsl : if>

    <xsl : if test="indLingGroup">
        <td>
            <xsl : value-of select="indLingGroup" />
        </td>
    </xsl : if>

    <xsl : if test="$frequency = 1">
        <td>
            <xsl : choose>
                <xsl : when test="indFreq">
                    <xsl : value-of select="indFreq" />
                </xsl : when>
                <xsl : otherwise>
                    1
                </xsl : otherwise>
            </xsl : choose>
        </td>
    </xsl : if>

    <xsl : if test="indNumReads">
        <td>
            <xsl : value-of select="indNumReads" />
        </td>
    </xsl : if>

    <xsl : if test="data">
        <td class="genotype">
            <xsl : for-each select="data">
                <xsl : value-of select=". ." />
                <br />
            </xsl : for-each>
        </td>
    </xsl : if>

    <xsl : if test="read">
        <td class="genotype">
            <xsl : apply-templates select="read">
                <xsl : with-param name="minim" select="$minim" />
            </xsl : apply-templates>
        </td>
    </xsl : if>

    </tr>

    </xsl : otherwise>
</xsl : choose>
</xsl : template>

<!-- xxxx template readxxxxxxxxxxxxxxxxxxxxxx -->

<xsl : template match="read">
<xsl : param name="minim" />

    <xsl : call-template name="align">
        <xsl : with-param name="min" select="$minim" />
        <xsl : with-param name="beginning" select="start" />

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xxxxxxx -->

<xsl:template match="distanceMatrix">
  <h3>
    <br />
    Distance matrix: <xsl:value-of select="@name"/>
  </h3>
  <p>

    <xsl:if test="matrixSize">
      Size of the distance matrix:
      <span>
        <xsl:value-of select="matrixSize"/>
      </span>
      <br />
    </xsl:if>

    Distance matrix:
  </p>

  <table>
    <xsl:call-template name="cr2br">
      <xsl:with-param name="text" select="matrix" />
      <xsl:with-param name="label" select="matrixLabels" />
    </xsl:call-template>

    <td class="widthout" />
    <xsl:call-template name="cr2Komma2">
      <xsl:with-param name="text" select="matrixLabels" />
    </xsl:call-template>
  </table>
  <br />
</xsl:template>

<!-- xxxx cr2br: seperate string after "line break" xxxxxxxxxxxxxxxx -->

<xsl:template name="cr2br">
  <xsl:param name="text" />
  <xsl:param name="label" />

  <xsl:choose>
    <xsl:when test="contains($text, '\xA;')">
      <tr>

        <xsl:choose>
          <xsl:when test="contains($label, ',')">
            <th class="widthout">
              <xsl:value-of select="substring-before($label, ',')"/>
            </th>
          </xsl:when>
          <xsl:otherwise>
            <th class="widthout">
              <xsl:value-of select="$label"/>
            </th>
          </xsl:otherwise>
        </xsl:choose>

        <xsl:call-template name="cr2Komma">
          <xsl:with-param name="text" select="substring-before($text, '\xA;')"/>
        </xsl:call-template>
      </tr>
    </xsl:when>
    <xsl:call-template name="cr2br">
      <xsl:with-param name="text" select="substring-after($text, '\xA;')"/>
      <xsl:with-param name="label" select="substring-after($label, ',')"/>
    </xsl:call-template>
  </xsl:choose>
</xsl:template>

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</xsl:call-template>
</xsl:when>
<xsl:otherwise>

<tr>
  <th class="widthout">
    <xsl:value-of select="$label" />
  </th>

  <xsl:call-template name="cr2Komma">
    <xsl:with-param name="text" select="$text" />
  </xsl:call-template>
</tr>

</xsl:otherwise>
</xsl:choose>
</xsl:template>

<!-- xxxx cr2br: separate string after "comma" XXXXXXXXXXXXXXXX -->

<xsl:template name="cr2Komma">
  <xsl:param name="text" />

  <xsl:choose>
    <xsl:when test="contains($text, ',')">

      <td class="widthout">
        <xsl:value-of select="substring-before($text, ',')"/>
      </td>

      <xsl:call-template name="cr2Komma">
        <xsl:with-param name="text" select="substring-after($text, ',')"/>
      </xsl:call-template>
    </xsl:when>
    <xsl:otherwise>

      <td class="widthout">
        <xsl:value-of select="$text" />
      </td>

    </xsl:otherwise>
  </xsl:choose>
</xsl:template>

<!-- xxxx cr2br: separate string after "comma" (for header) XXXXXXXXXXXXXXXX -->

<xsl:template name="cr2Komma2">
  <xsl:param name="text" />
  <xsl:choose>
    <xsl:when test="contains($text, ',')">

      <th class="widthout">
        <xsl:value-of select="substring-before($text, ',')"/>
      </th>

      <xsl:call-template name="cr2Komma2">
        <xsl:with-param name="text" select="substring-after($text, ',')"/>
      </xsl:call-template>
    </xsl:when>
    <xsl:otherwise>

      <th class="widthout">
        <xsl:value-of select="$text" />
      </th>

    </xsl:otherwise>
  </xsl:choose>
</xsl:template>

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</th>  
</xsl:otherwise>  
</xsl:choose>  
</xsl:template>
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</xsl:stylesheet>
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