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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 -->

  <xsl:template match="/">
    <html>
      <head>
        <title/>

<!-- xxxx style definitions
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xx -->

        <style type="text/css">
          h1 {font-family:Arial; font-size:18px; color:#00c;}
          h3 {font-family:Arial; font-size:16px; color:#00c}
          p {font-family:Arial; font-size:12px; font-weight:bold;}
          span {font-family:Arial; font-size:12px; font-weight:normal;}
          table {font-family:Arial; font-size:12px; 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.withoutInd {color:#00c; text-align:left; border:0px; padding-left:5px;
padding-right:5px}
          th.matrix {text-align:left; vertical-align:text-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:Lucida Console; font-size:12px; text-align:left;
border:1px solid gray; padding-left:5px; padding-right:5px}
          td.genotype2 {font-family:Lucida Console; font-size:12px; text-align:left;
border:0px; padding-left:5px; padding-right:5px}
        </style>

      </head>

      <body>
        <xsl:apply-templates/>
      </body>
    </html>
  </xsl:template>

<!-- xxxx header
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  <xsl:template match="header">
    <h1>
      <xsl:value-of select="@title"/>
    </h1>

    <table>
      <xsl:if test="organism">
        <tr>
          <th class="without"> Organism:</th>
          <td class="without">
            <xsl:value-of select="organism"/>
          </td>
        </tr>
      </xsl:if>

      <xsl:if test="numPop">
        <tr>

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

<xsl:if test="ploidy">
    <tr>
        <th class="without"> Ploidy: </th>
        <td class="without">
            <xsl:value-of select="ploidy"/>
        </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 gaps: </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  dataDescription
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<xsl:template match="dataDescription">
    <h3>
        <br />
        Data description:
    </h3>
    <p>
        <xsl:if test="numLoci">
            Loci number:
            <span>

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        <xsl:value-of select="numLoci" />
        <br />
    </span>
</xsl:if>

<xsl:if test="dataType">
    Data type:
    <span>
        <xsl:value-of select="dataType" />
        <br />
    </span>
</xsl:if>
</p>

<table>
<xsl:for-each select="locus">
    <tr>
        <th class="withoutInd">
            id: <xsl:value-of select="@id" />
        </th>
    </tr>

    <xsl:if test="locusDataType">
        <tr>
            <td class="without"> data type: </td>
            <td class="without">
                <xsl:value-of select="locusDataType" />
            </td>
        </tr>
    </xsl:if>

    <xsl:if test="locusChromosome">
        <tr>
            <td class="without"> on chromosome: </td>
            <td class="without">
                <xsl:value-of select="locusChromosome" />
            </td>
        </tr>
    </xsl:if>

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

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

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

    <xsl:if test="locusLinks">
        <tr>
            <td class="without"> links: </td>

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

<xsl:if test="popPloidy">
  Ploidy:
  <span>
    <xsl:value-of select="popPloidy"/>
  </span>
  <br />
</xsl:if>

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

<!-- 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>

<!-- xxxxxxxxxxxxxxxx -->

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

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

<xsl:choose>
  <xsl:when test="indLoci">
    <tr>
      <th class="withoutInd"> 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>

    <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="indLoci">
      <tr>
        <td class="without"> Loci: </td>
        <td class="without">
          <xsl:value-of select="indLoci" />
        </td>
      </tr>
    </xsl:if>

  </xsl:choose>

<!-- 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>

<!-- xxxxxxxxxxxxxxxxxxxxxxxx -->

<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>

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</xsl:if>

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

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

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

<xsl:otherwise>

  <xsl:if test="position()=1">
    <tr>
      <th>ind</th>

      <xsl:if test="indGeogCoord">
        <th> geog. coord. </th>
      </xsl:if>

      <xsl:if test="indLingGroup">
        <th> ling. group </th>
      </xsl:if>

      <xsl:if test="$frequency = 1">
        <th> freq </th>
      </xsl:if>

      <xsl:if test="indPloidy">
        <th> ploidy </th>

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        </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>

<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="indPloidy">
        <td>
            <xsl:value-of select="indPloidy" />
        </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">

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        <xsl:with-param name="minimum" select="$minimum" />
      </xsl:apply-templates>
    </td>
  </xsl:if>

</tr>

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

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<!-- xxxx template read xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx -->

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

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

  <xsl:value-of select="data" />
  <br />

</xsl:template>

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<!-- xxxx template align (for alignment) xxxxxxxxxxxxxxxxxxxx -->

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<xsl:template name="align">
  <xsl:param name="min" />
  <xsl:param name="beginning" />

  <xsl:if test="$beginning > $min">&#xA0;<xsl:call-template name="align">
    <xsl:with-param name="min" select="$min" />
    <xsl:with-param name="beginning" select="$beginning - 1" />
  </xsl:call-template>
</xsl:if>
</xsl:template>

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<!-- xxxx structure
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<xsl:template match="structure">
  <h3>
    <br />
    Structure: <xsl:value-of select="@name"/>
  </h3>
  <p>

    <xsl:if test="numGroups">
      Number of groups:
      <span>
        <xsl:value-of select="numGroups"/>
      </span>
    <br />
    </xsl:if>
  </p>

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<xsl:if test="group">
  <xsl:for-each select="group">
    <xsl:number value="position()" format="1" />. group:
    <span>
      <xsl:value-of select="."/>
    </span>
    <br />
  </xsl:for-each>
</xsl:if>

</p>
</xsl:template>

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<!-- xxxx distance matrix
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xxxx -->

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<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>

    <th class="without" />
    <xsl:call-template name="cr2Komma2">
      <xsl:with-param name="text" select="matrixLabels" />
    </xsl:call-template>

  </table>
  <br />
</xsl:template>

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<!-- xxxx cr2br: separete string after "line break" xxxxxxxxxxxxxxxxx -->

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<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, ',')">

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        <th class="without">
            <xsl:value-of select="substring-before($label, ',')" />
        </th>
    </xsl:when>
    <xsl:otherwise>
        <th class="without">
            <xsl:value-of select="$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: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:when>
<xsl:otherwise>

    <tr>

        <th class="without">
            <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: seperate string after "comma" xxxxxxxxxxxxxxxx -->

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

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

            <td class="without">
                <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="without">
                <xsl:value-of select="$text" />
            </td>

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

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<!-- xxxx cr2br: seperate string after "comma" (for header) xxxxxxxxxxxxxxxx -->

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

      <th class="without">
        <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="without">
        <xsl:value-of select="$text" />
      </th>

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

</xsl:stylesheet>

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