


<!DOCTYPE html PUBLIC "-//W3CDTD XHTML 1.0 TransitionalEN"
["http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"](http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd)> <html
 xmlns=["http://www.w3.org/1999/xhtml"](http://www.w3.org/1999/xhtml) xml:lang="en" lang="en" dir="ltr"> <head> <meta http-
 equiv="Content-Type" content="text/html; charset=utf-8" /> <title> Face shape annotations for the
 RWTH-PHOENIX corpus </title> </head> <body class="dw-left"> <div class="right-page"> <div
 id="page"> <h2 class="sectionedit1"><a name="face_shape_annotations_for_the_rwth-
 phoenix_corpus" id="face_shape_annotations_for_the_rwth-phoenix_corpus">Face shape annotations
 for the RWTH-PHOENIX corpus</h2> <div class="level2"> <p> This archive contains face
 shape annotations - along with the corresponding images - for the seven signers who appear in the
 RWTH-PHOENIX corpus. The archive contains one directory per signer, each of which contains an
 "images" subdirectory and a "points" subdirectory. All image files are 300×260 <acronym
 title="Portable Network Graphics">PNG</acronym> images. All face shape annotation files are
 <acronym title="American Standard Code for Information Interchange">ASCII</acronym> files with
 the filename extension ".pts". </p> </div> <h4><a
 name="distribution_of_the_annotated_images_among_the_signers"
 id="distribution_of_the_annotated_images_among_the_signers">Distribution of the annotated images
 among the signers</h4> <div class="level4"> <p> In total 369 images from the RWTH-
 PHOENIX corpus (RWTH-PHOENIX-v02-split01-TRAIN) have been manually annotated with the face
 shape. </p> <div class="table sectionedit2"><table class="inline"> <tr class="row0"> <th
 class="col0 leftalign"> Signer </th><th class="col1"> # annotated images </th> </tr> <tr
 class="row1"> <td class="col0"> Bastienne Blatz </td><td class="col1 centeralign"> 61 </td>
 </tr> <tr class="row2"> <td class="col0"> Christian Plugfelder </td><td class="col1 centeralign">
 53 </td> </tr> <tr class="row3"> <td class="col0"> Karina Orlowski </td><td class="col1
 centeralign"> 42 </td> </tr> <tr class="row4"> <td class="col0"> Kira Knuehmann </td><td
 class="col1 centeralign"> 65 </td> </tr> <tr class="row5"> <td class="col0"> Magdalena Meisen
 </td><td class="col1 centeralign"> 62 </td> </tr> <tr class="row6"> <td class="col0"> Silke
 Lintz </td><td class="col1 centeralign"> 51 </td> </tr> <tr class="row7"> <td class="col0">
 Stephanie Prothmann </td><td class="col1 centeralign"> 35 </td> </tr> </table></div> </div>
 <h4><a name="structure_of_a_face_shape_annotation_file_pts_file"
 id="structure_of_a_face_shape_annotation_file_pts_file">Structure of a face shape annotation file
 (".pts" file)</h4> <div class="level4"> <p> For each image the face shape
 annotation consists of the ordered list of the positions of 38 facial landmarks. Each facial landmark -
 or face shape point - has two coordinates in the coordinate system originating at the top-left corner of
 the image, with the x-axis pointing right and the y-axis pointing down. The actual structure of a ".pts"
 file is as follows: </p> <pre class="code">version: 1 n_points: 38 { x_1 y_1 x_2 y_2 ... x_38 y_38
 }</pre> <p> </p> <p> A possible interpretation of
 the shape points as face parts is as follows (using zero-based indexing in the list of points of a ".pts"
 file): </p> <div class="table sectionedit3"><table class="inline"> <tr class="row0"> <th
 class="col0 leftalign"> Shape point indices </th><th class="col1"> Face part </th> </tr> <tr
 class="row1"> <td class="col0">0-1-2 </td><td class="col1"> upper part of the left eyebrow</td>
 </tr> <tr class="row2"> <td class="col0">3-4-5 </td><td class="col1"> upper part of the right
 eyebrow</td> </tr> <tr class="row3"> <td class="col0">6-7-8-9 </td><td class="col1"> eyelids
 of the left eye</td> </tr> <tr class="row4"> <td class="col0">10-11-12-13 </td><td
 class="col1"> eyelids of the right eye</td> </tr> <tr class="row5"> <td class="col0">14-15
 </td><td class="col1"> nasal ridge</td> </tr> <tr class="row6"> <td class="col0">16-17
 </td><td class="col1"> nasal base</td> </tr> <tr class="row7"> <td
 class="col0">18-19-20-21-25-24 </td><td class="col1"> upper lip</td> </tr> <tr class="row8">
 <td class="col0">18-23-22-21-26-27 </td><td class="col1"> lower lip</td> </tr> <tr
 class="row9"> <td class="col0">28-29-30-31-32-33-34-35-36-37 </td><td class="col1"> cheeks
 and chin</td> </tr> </table></div> <p>
 Note: The original images from the RWTH-PHOENIX

corpus do not have square pixels and come in 210x260 image resolution. Therefore the annotated data provided here should be scaled appropriately if the goal is to build models that are relevant to the entire corpus from these data. Scaling both our images and our shape annotations by a factor 210/300 in the horizontal direction only (x-coordinates) will do the trick!

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