

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"> <html
xmlns="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 210×260 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! </p><h4>License</h4> <div class="level4"> <p> <p> Face shape annotations for the RWTH-PHOENIX corpus by Thomas Hoyoux, IIS Lab, University of Innsbruck, are licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc-sa/3.0/ or send a letter to Creative Commons, 444 Castro Street, Suite 900, Mountain View, California 94140, USA. </p> </p> </div> </div> </div> </body> </html>

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