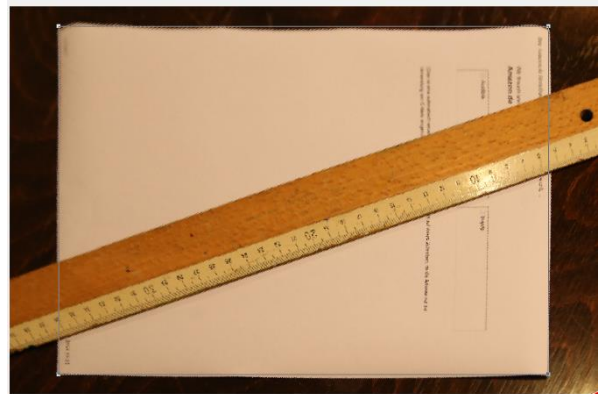
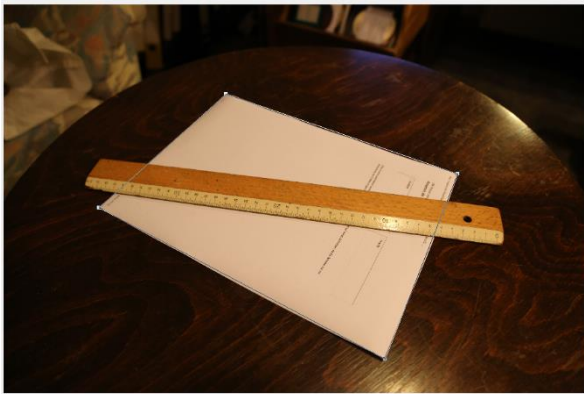


Description: Plugin for PhotoFiltre “TransformToRect”

Purpose and working principle

To make a photo of a poster (or any other rectangular object) the best position for the camera is at the perpendicular from the centre of the poster. Due to lights, reflections, shadows or other reasons this position may give a bad result and another position has to be chosen. Sometimes, the ideal position is simply not reachable. In any case, the result is that the poster is not rectangular in the photo.

This plugin re-constructs a marked area of the given photo to a rectangular area. The user has to move the corners of the polygon-marker to the corners of the original poster in the photo. The program calculates from this the position of the camera and builds a new picture as it would look like, if taken from the perpendicular from the centre of the poster. The two photos below (a test case with an extreme position of the camera) demonstrate this. IMPORTANT: The photo must NOT be a cut-out. The optical axis of the camera must cross the photo in its centre.



System requirements

Tested with Windows 8.1 and PhotoFiltre 7. Should work with Windows XP and later.

Performance: No parallel processing is used. Preview (200000 pixels) on the screen needs 2 s on an actual 4 Ghz-PC. Pretty print for a 20 Megapixel picture needs 20 s seconds.

Installation

No Installation required, simply copy the file “PTransformToRect.pfl” into the directory “Plugins” of the PhotoFiltre folder.

Versions:

2.0: First published version

2.1: Faster routines for pixel operations used.

Hamburg, 06.12.2014