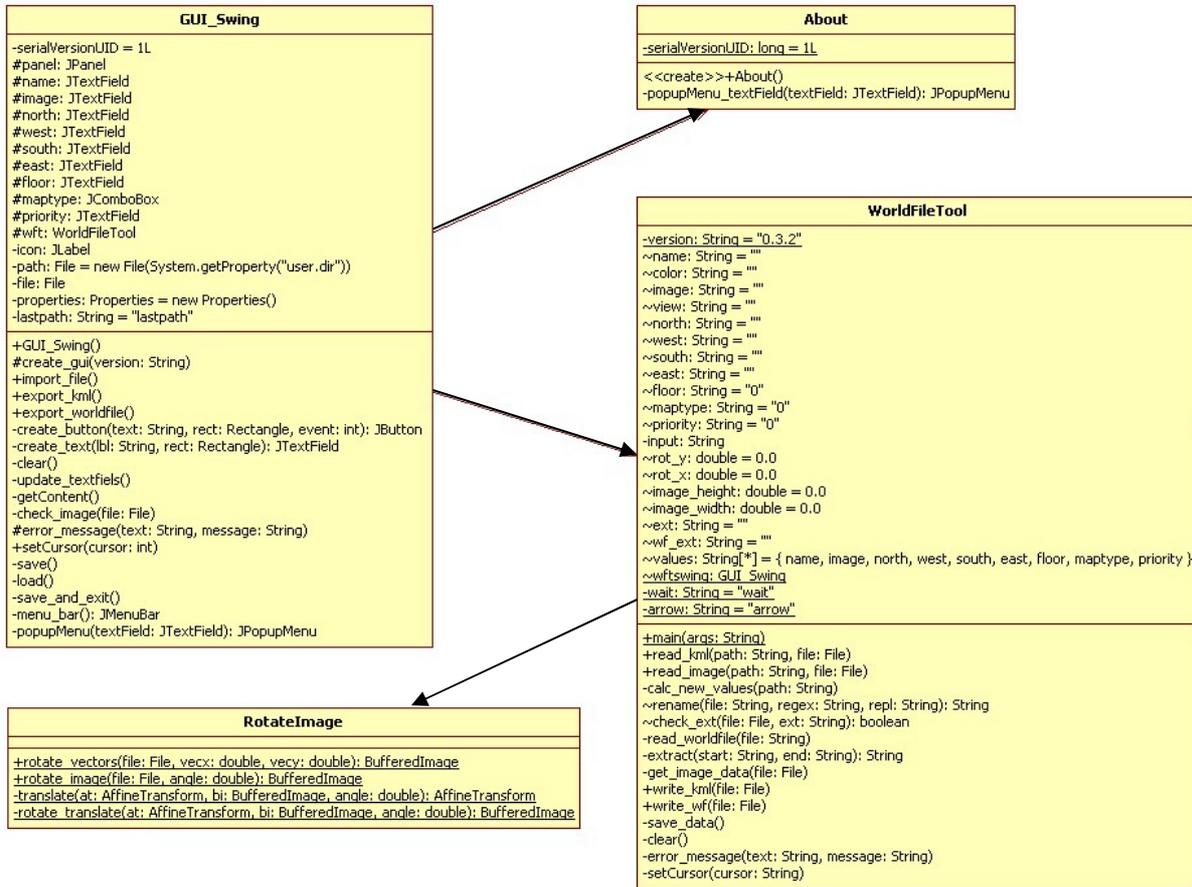


Design Document - WorldFileTool



Short description of each Class

- | | |
|-------------------------------|------------------|
| <i>About.java</i> | About Window |
| <i>GUI_Swing.java</i> | FrontEnd Swing |
| <i>RotatImage.java</i> | Rotate Image |
| <i>WorldFileTool.java</i> | Main Class |
| <i>WorldFileToolTest.java</i> | JUnit Test Class |

Detailed description of the interesting Classes

RotatImage.java

- rotate_vectors:
 - vecx, vecy vector with x, y coordinates

The vectors will be converted with some simple math into an angle which is used to rotate an image.

- rotate_image: Using an angle to rotate an image.
- translate: Rotating increases the image size, so some part of it will be out of bound, therefore a translation is needed to put the whole image into a visible position.
- rotate_translate: Rotate the image and call translate.

WorldFileTool.java

- main: creates and show the GUI.
- read_kml: read a kml and extract the needed parts.
- calc_new_values: rotating an image increases the image size, thus the coordinates needs to be recalculated.
- read_worldfile: parse a worldfile and check if the coordinates are in the geographic coordinate system.
- write_kml: writes a kml and add some new data
- write_wf: writes a worldfile with the new data.