

## **Document and Content Analysis (SS 2009)**

### **Exercise Sheet 2**

**to be submitted by E-Mail to [faisal.shafait@dfki.de](mailto:faisal.shafait@dfki.de) by: 25.05.2009**

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#### **Exercise 2.1 (Document Image Compression)**

Please see the file: sample-book.djvu. This is a multi-page file in DjVu format. What is the title of the book? How many pages does it have? Take a screenshot of the page number 5 and submit it with the assignment.

#### **Exercise 2.2 (Font formats)**

What is the difference between quadratic Bezier curves and cubic Bezier curves. Write formulas for both. Which font technology (Postscript, TrueType, OpenType) uses which type of curves to describe the outline of a glyph?

#### **Exercise 2.3 (Font Rendering)**

Please execute the program pango.py. Modify the program to apply the attribute “Strike-Through” to the first quote, and change the color of the second quote to red.