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import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;
import java.util.Arrays;
import javax.swing.JFileChooser;
import javax.swing.filechooser.FileNameExtensionFilter;

public class BibFormatter extends javax.swing.JFrame {
    private static String[] end;
    private static String[] total;
    private static String[] annotations;
    private static int count;
    private static int count2;

    public static String[] nonAnnotatedOrganize() {
        BufferedReader reader;
        BufferedReader reader2;

        JFileChooser chooser = new JFileChooser();
        FileNameExtensionFilter filter = new FileNameExtensionFilter("Text
File", "txt");
        chooser.setFileFilter(filter);
        int returnVal = chooser.showOpenDialog(null);

        try{
            reader = new BufferedReader(new
FileReader(chooser.getSelectedFile()));
            reader2 = new BufferedReader(new
FileReader(chooser.getSelectedFile()));

            String line = reader2.readLine();
            count = 0;
            while (line != null) { //count how many lines there are
                count++;
                // read next line
                line = reader2.readLine();
            }

            end = new String[count];
            for(int i = 0; i < count; i++){ //put each source into an array
                end[i] = reader.readLine() + "\n";
            }
        }
        catch (IOException e)
        {
            e.printStackTrace();
        }

        return end;
    }
}

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    }
    public static String[] annotatedOrganize() {
        BufferedReader reader;
        BufferedReader reader2;

        JFileChooser chooser = new JFileChooser();
        FileNameExtensionFilter filter = new FileNameExtensionFilter("Text
File", "txt");
        chooser.setFileFilter(filter);
        int returnVal = chooser.showOpenDialog(null);

        try{
            reader = new BufferedReader(new
FileReader(chooser.getSelectedFile()));
            reader2 = new BufferedReader(new
FileReader(chooser.getSelectedFile()));

            String line = reader2.readLine();
            count = 0;
            while (line != null) { //count how many lines there are
                count++;
                // read next line
                line = reader2.readLine();
            }

            end = new String[count/2];
            for(int i = 0; i < count/2; i++){ //put each source into an array
                end[i] = reader.readLine() + ">" + reader.readLine();
            }

        }
        catch (IOException e)
        {
            e.printStackTrace();
        }

        return end;
    }

    public static String[] alphabetize() {
        count2 = end.length;
        for(int i = 0; i < count2; i++){ //removes quotation marks from each
source (because they mess up alphabetizing)
            if(end[i].charAt(0) == '\\"')
                end[i] = end[i].substring(1);
            }

        Arrays.sort(end); //alpabetize
    }

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        for(int i = 0; i < count2; i++){ //goes through all sources and adds
back quotation marks
            int quotes = 0;
            for(int j = 0; j < end[i].length(); j++){ //counts how many
quotations marks there are
                if(end[i].charAt(j) == '\')
                    quotes++;
            }

            if(quotes % 2 != 0) //if the amount of quotation marks are odd,
then there has to be
                                //a missing one (the one in front) so it
adds that
                end[i] = "\"" + end[i];
            }

        return end;
    }

    public static String[] hanging() {
        for(int a = 0; a < count2; a++){
            for(int b = 85; b < end[a].length(); b+=85){
                int c = 0;
                while(c == 0){
                    if(end[a].charAt(b) == ' '){
                        end[a] = end[a].substring(0, b) + "\n" + "\t" +
end[a].substring(b + 1);
                        c++;
                    }
                    else
                        b--;
                }
            }
        }

        return end;
    }

    public static String annotated(){
        BibFormatter.annotatedOrganize();

        BibFormatter.alphabetize();//organize just sources

        total = new String[count];
        annotations = new String[count/2];
        for(int i = 0; i < count/2; i++){
            for(int j = 0; j < end[i].length(); j++){
                if(end[i].charAt(j) == '>'){
                    annotations[i] = "\t" +
end[i].substring(j+1,end[i].length());

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        end[i] = end[i].substring(0,j);
    }
}

BibFormatter.hanging();

int lastSou = 0;
int lastAnn = 0;

for(int a = 0; a < count/2; a++){
    for(int b = 85; b < annotations[a].length(); b+=85){
        int c = 0;
        while(c == 0){
            if(annotations[a].charAt(b) == ' '){
                annotations[a] = annotations[a].substring(0, b) + "\n" +
"\t" + annotations[a].substring(b + 1);
                c++;
            }
            else
                b--;
        }
    }
}

for(int h = 0; h < count; h++){ //put sources and annotations back
together
    if(h % 2 != 0){
        total[h] = annotations[lastAnn];
        lastAnn++;
    }
    else {
        total[h] = end[lastSou];
        lastSou++;
    }
}

for (String bib:total){
    System.out.println(bib + "\n");
}
return "";
}

public static String NotAnnotated(){
    BibFormatter.nonAnnotatedOrganize();
    BibFormatter.alphabetize();
    BibFormatter.hanging();
    for (String bib:end){

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        System.out.println(bib + "\n");
    }
    return "";
}

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//GUI
public BibFormatter() {
    initComponents();
}
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

    FormatMyBibliography = new java.awt.Button();
    Annotated = new javax.swing.JCheckBox();
    jPanel1 = new javax.swing.JPanel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    jPanel1.setBackground(new java.awt.Color(100, 240, 240));
    setLocation(new java.awt.Point(600, 300));
    setTitle("BibFormatter");

    javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGap(0, 400, Short.MAX_VALUE)
);

    FormatMyBibliography.setActionCommand("Select File");
    FormatMyBibliography.setCursor(new
java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
    FormatMyBibliography.setLabel("Format My Bibliography");
    FormatMyBibliography.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            FormatMyBibliographyActionPerformed(evt);
        }
    });

    Annotated.setText("Annotated");
    Annotated.addActionListener(new java.awt.event.ActionListener() {

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        public void actionPerformed(java.awt.event.ActionEvent evt) {
            AnnotatedActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout layout = new
    javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(21, 21, 21)
                .addComponent(FormatMyBibliography,
                    javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(28, 28, 28)
                .addComponent(Annotated)
                .addGap(28, Short.MAX_VALUE))
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(21, 21, 21)
                    .addComponent(FormatMyBibliography,
                        javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(21, 21, 21))
                .addComponent(Annotated))
    );

    pack();
} // </editor-fold>

private void FormatMyBibliographyActionPerformed(java.awt.event.ActionEvent evt)
{
    if(Annotated.isSelected())
        BibFormatter.annotated();
    else
        BibFormatter.NotAnnotated();
}

private void AnnotatedActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:
}

/**

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    * @param args the command line arguments
    */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        ///http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
        */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(BibFormatter.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(BibFormatter.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BibFormatter.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BibFormatter.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
        }
        ///

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