Homework #2 Lexi and Decorator

Issued: Monday, February 28 **Due:** Monday, March 14

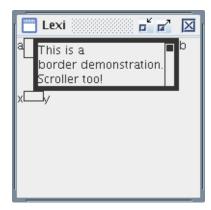
Purpose

This assignment allows you to learn about another design pattern: Decorator (175).

Assignment

Design (in UML) and implement (in Java) the Embellishment part of the Lexi editor, as described in Section 2.4 of our textbook. Add borders and scroll bars.

Test your solution with a simple graphical demonstration. For example, these are the results of my tests:



Notes and Suggestions

- Use the design suggestions from our textbook. In particular, think carefully about your inheritance hierarchy: What is the superclass of Embellishment? Is it Glyph, CompositeGlyph, or Composition?
- Use the Window interface and SwingWindow implementation in:

pub/hw2

You can remove the packaging stuff, at the top, if you wish.

• Use fancy constructors to simplify your main class. For example:

• Test your code thoroughly. For example:

```
border.insert(new Row("Scroller too!",window));
```

• As usual, casting is prohibited!