

Text Composition

Prof. Jonathan Lee (李允中)

Department of Computer Science and Information Engineering National Taiwan University



Homework: Requirements Statement

- ☐ The Composition class maintains a collection of Component instances, which represent text and graphical elements in a document.
- A composition arranges component objects into lines using a linebreaking strategy.
- Each component has an associated natural size, stretchability, and shrinkability.
- ☐ The stretchability defines how much the component can grow beyond its natural size; shrinkability is how much it can shrink.
- ☐ When a new layout is required, the composition calls its compose method to determine where to place linebreaks.
- ☐ There are 3 different algorithms for breaking lines:
 - > Simple Composition: A simple strategy that determines line breaks one at a time.
 - > Tex Composition: This strategy tries to optimize line breaks globally, that is, one paragraph at a time.
 - Array Composition: A strategy that selects breaks so that each row has a fixed number of items. It's useful for breaking a collection of icons into rows, for example.