Unified Text Layout Engine for FOSS Systems

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Background of GNOME Live 2006

Topic And Observation

Fundamental Problems

Improper understanding of text handling architecture leads to non unified text layout engine

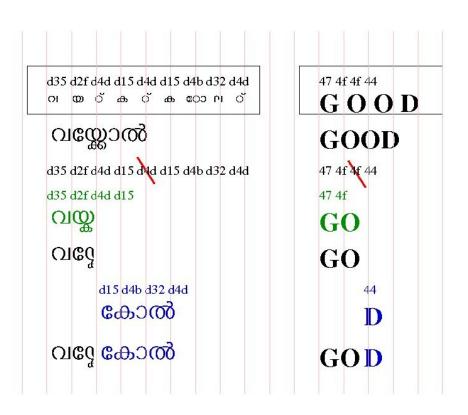
Text handling Architecture

Latin One character one glyph

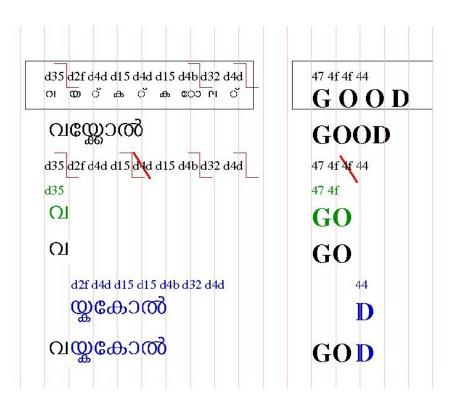
Three layer Architecture
Backup store layer
Glyph Layer
I/O Layer



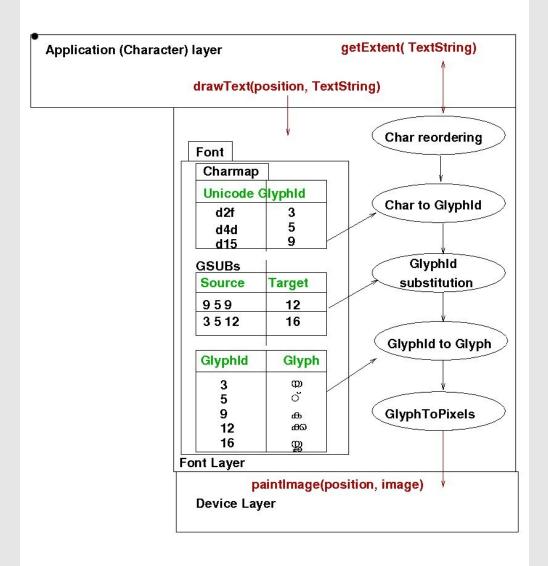


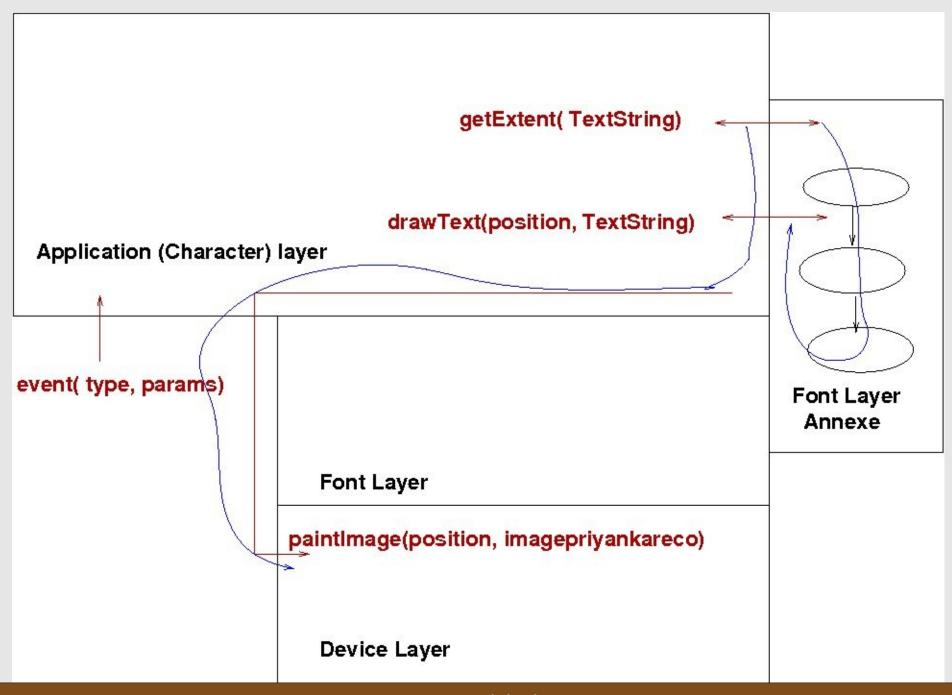


Editing Complex Script

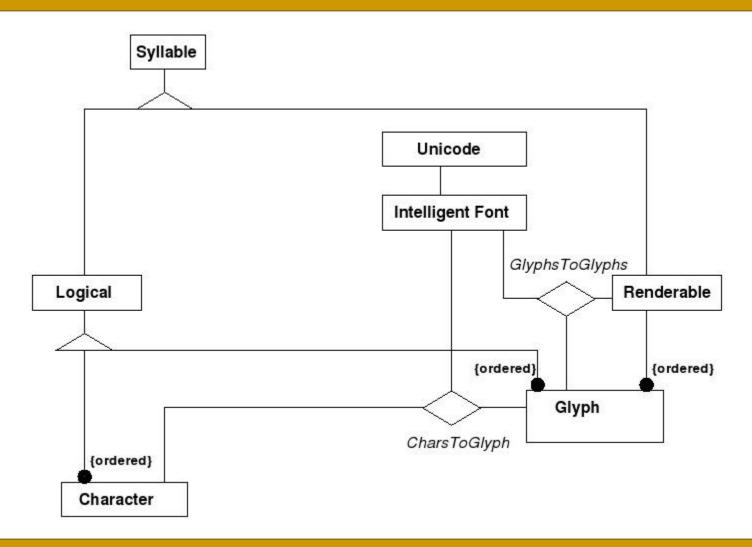




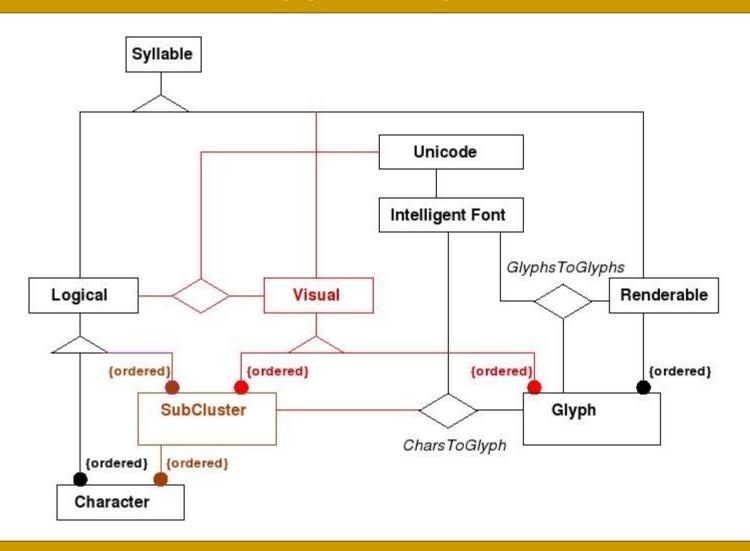




Characters to Glyphs object model



Characters to Glyphs object model for Indic





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