

Designing Layout-Agnostic PDF Pipelines

Hugo Palma

2026-03-03

How label-driven rendering decouples data, layout, and style.

A document renderer should not understand resume fields, invoice fields, or report-specific structures. It should only execute rendering operations.

By converting source JSON into labeled operations, we can adapt any domain schema into the same rendering engine while preserving visual consistency through themes.

This architecture makes document generation maintainable because layout and style can evolve without rewriting the core rendering primitives.