Integrating Dark Mode

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LibreOffice Technology
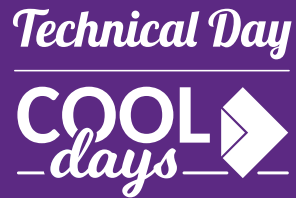
How does document rendering work in Collabora Online?

- Server-side rendering

- Document is composed of many tiles

- Tiled rendering helps because you only have to rerender the invalidated part of the document

- We want to reuse the already rendered tiles among as many users as possible

- There's cases where the entire document needs to be redrawn however

The problems

- We can't modify the rendering on the client side

- Can't give each user their own view because rerendering the document per user is slow

- There was no view separation based on the view options

- The color options were a global state, which made sense for the desktop application

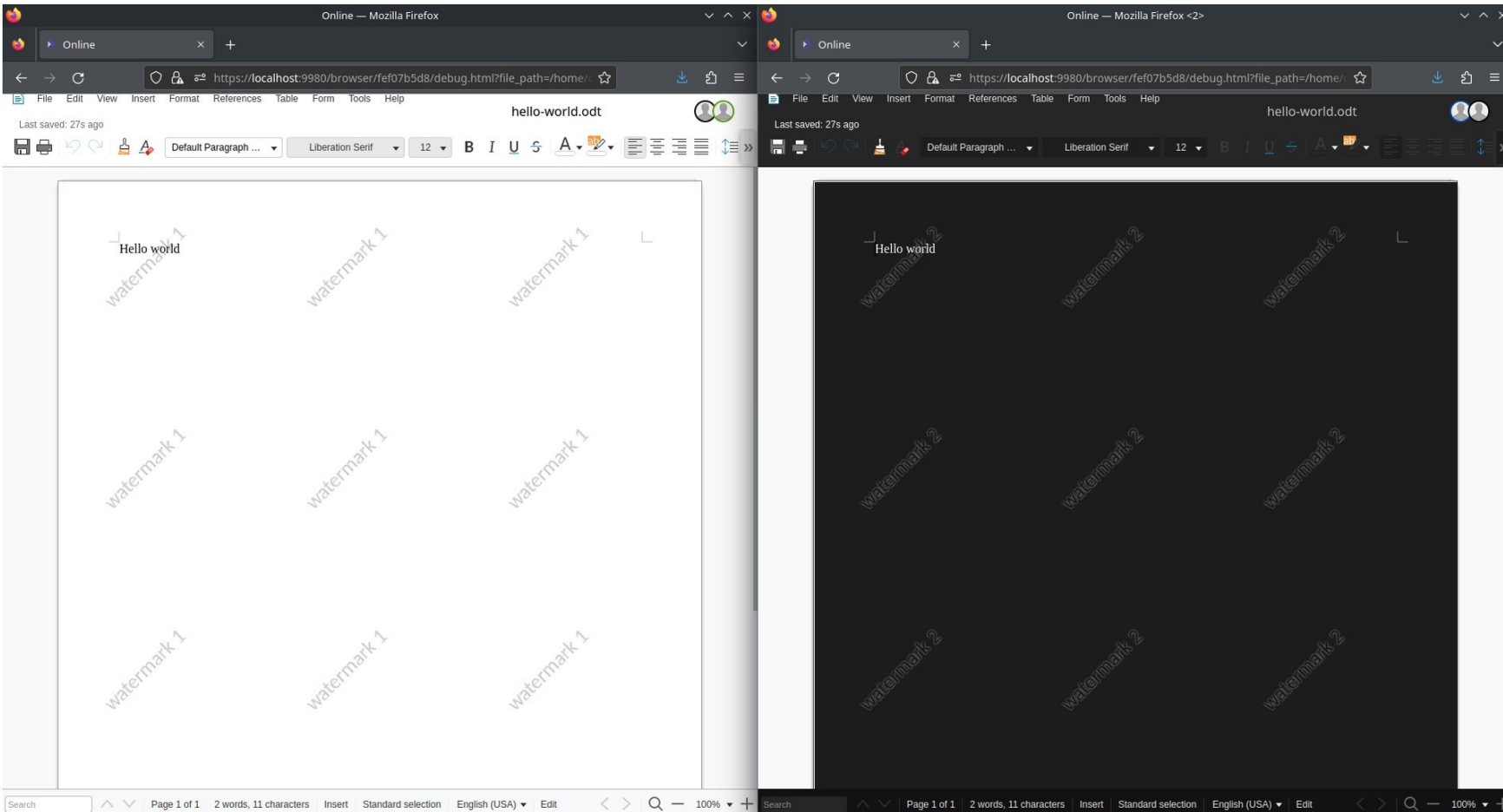- Tiles were not properly invalidated when switching to dark mode

Current state

- Dark mode is implemented, and view separation works correctly

- Clients share the same view correctly, based on their view options

- Easily extensible with more view options

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Preview

What's next?

- Integrate dark mode in Calc and Impress

- Allow for adding new themes such as High Contrast etc.

- Extend test suite

Thank you!

By Paris Oplopoios

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