

Visualization of Georgia's Historical Maps in the Digital Age

Presenter: Erekle Lomtadze

Co-authors: Anton Nadiradze, Tengorashvili

email: erekle.lomtadze561@ens.tsu.edu.ge

^a Department of Computer Science, Faculty of Exact and
Natural Sciences, Ivane Javakhishvili Tbilisi State
University

^b Tbilisi State University, 1 Ilia Chavchavadze Avenue,
Tbilisi 0179, Georgia

As part of the project, an interactive website was created that reflects the evolution of Georgia's historical borders across different eras. The platform hosts digitized historical maps, which were processed using GIS and QGIS systems, as well as Google Earth Pro software to finalize the output. To extract and visualize the borders from historical maps, both manual and automated methods were applied. Tools such as Potrace, Inkscape, and curve-smoothing algorithms (including Chaikin and Douglas-Peucker) were utilized in the process.

The platform allows users to view digital versions of historical maps, compare old borders with modern data, observe historical changes, and analyze geopolitical factors. The project contributes to the preservation and promotion of Georgia's historical heritage. It can be applied in fields such as education, culture, and tourism. The initiative is especially important for youth, to help deepen national identity and historical awareness.

This project can be generalized and adapted for other countries as well. The same platform structure and digitization methods can be used to visualize the historical border changes of various regions around the world, making it a valuable tool for global educational, cultural, and historical analysis.

References

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