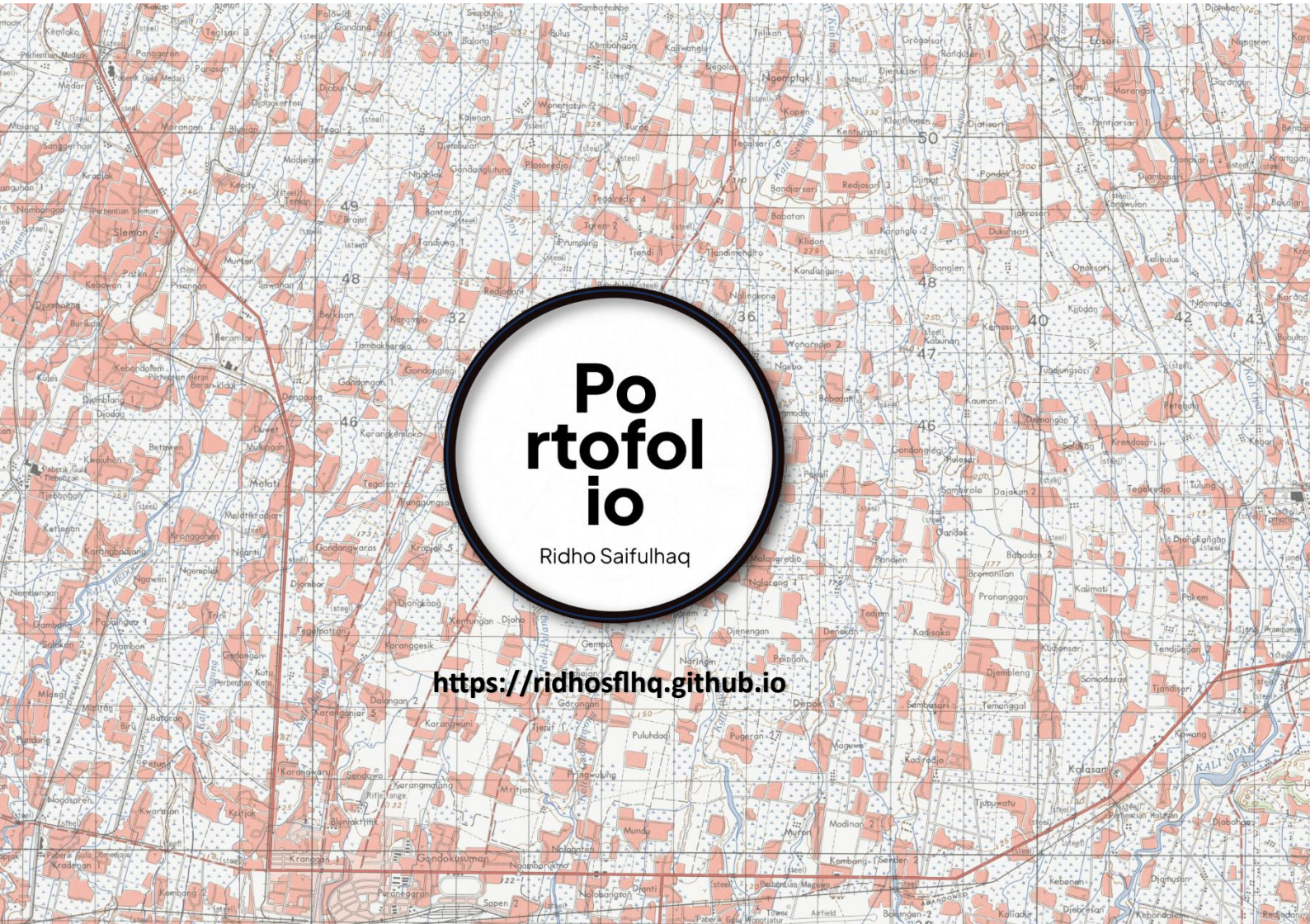

Portfolio
Ridho Saifulhaq
https://ridhosflhq.github.io

Curicullum Vitae

Ridho Saifulhaq

About Me

I am a graduate of the Cartography and Remote Sensing study program from Gadjah Mada University. I have an interest in environmental studies topics such as environmental conservation, animal conservation. Apart from that, I am also interested in social topics such as history, population, and urban dynamics such as transportation and migration.

Profile

Name : Ridho Saifulhaq
Birthdate : Purworejo, 28 Agustus 1999
Based : Yogyakarta
Language : Indonesia (Native), English

Education

SMPIT Abu Bakar Yogayakarta
MAN Insan Cendekia Pekalongan
Universitas Gadjah Mada
Majoring Cartography and Remote Sensing

Skills

Geospatial Data Processing
Remote Sensing Analysis
Geospatial Information system
Cartography
Basic SQL

ArcGIS
QGIS
Envi
Idrisi
GEE

Experience

Practicum Assistant in Cartography Laboratory
and Geographic Information Science Laboratory at UGM

Writer and Editor at SKM Bulaksumur UGM

Work Experiece

POI Verifier at Quadrant

GIS Technician at PT Pangrancana Spasialindo Pratama

- Developed base maps for RDTR (Detailed Spatial Plan) preparation.
- Created spatial and spatial structure maps for RDTR
- Conducted spatial analysis to support urban planning initiatives.
- Collaborated and engaged in discussions with relevant stakeholders to ensure alignment and gather input for planning processes.

3D Map

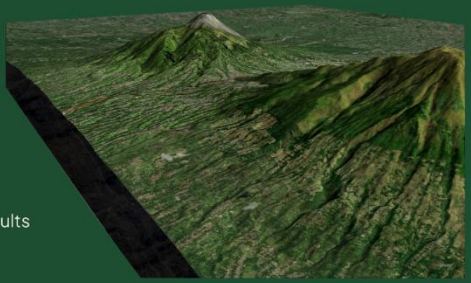
- AMS Land Use Map
- DEMNAS

Compiled using a combination of raster-based processing using data materials in the form of the 1963 US AMS map and DEMNAS data.

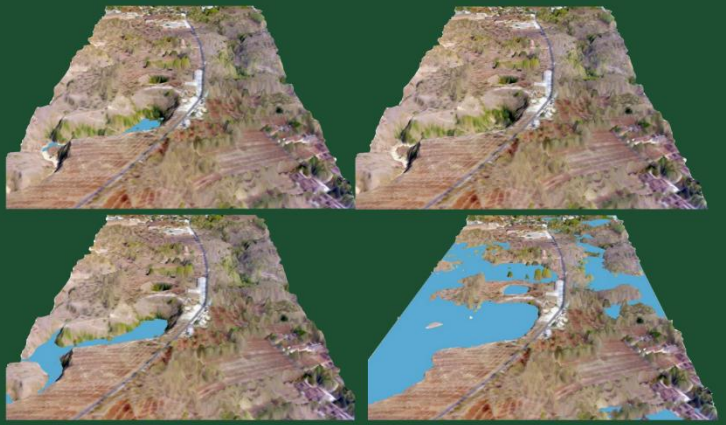
3D Visualization

- Maxar Satellite Image
- DEMNAS

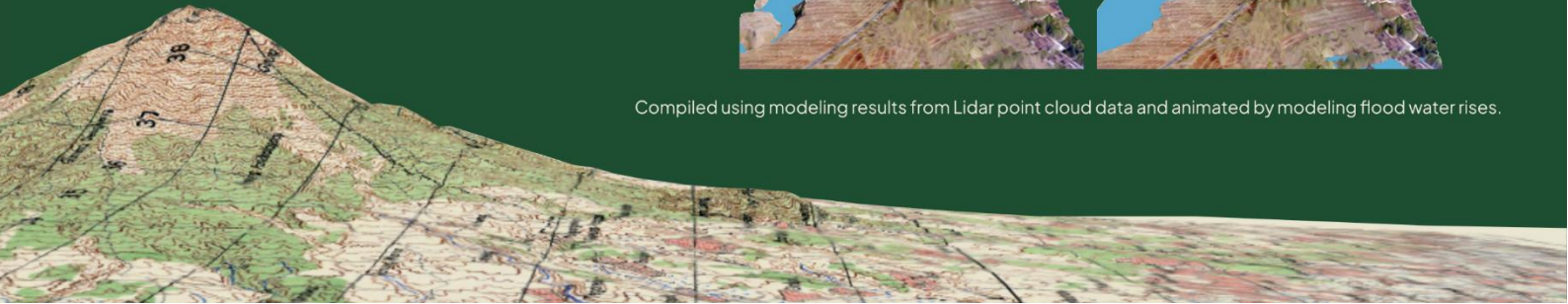
Compiled using the Maxar satellite image overlay method with DEMNAS data visualization and processing results



Flood Inundation Modeling



Compiled using modeling results from Lidar point cloud data and animated by modeling flood water rises.

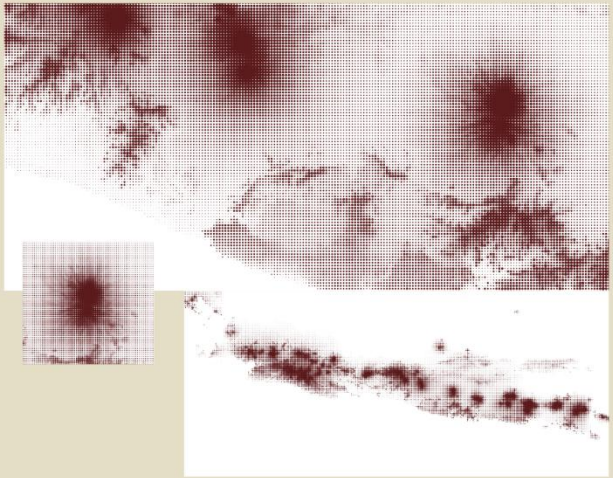


Customize Google Map Appearance

Customizing the Google Map style is done by changing several coloring and appearance styles from the existing default. Customization was carried out with inspiration from the map of one of the games that was popular some time ago, namely GTA San Andreas.

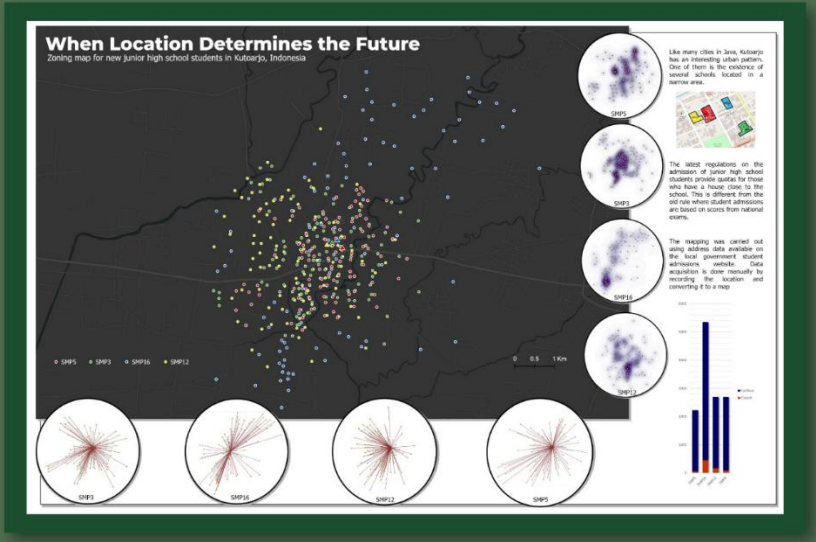
Halftone Map

- DEMNAS



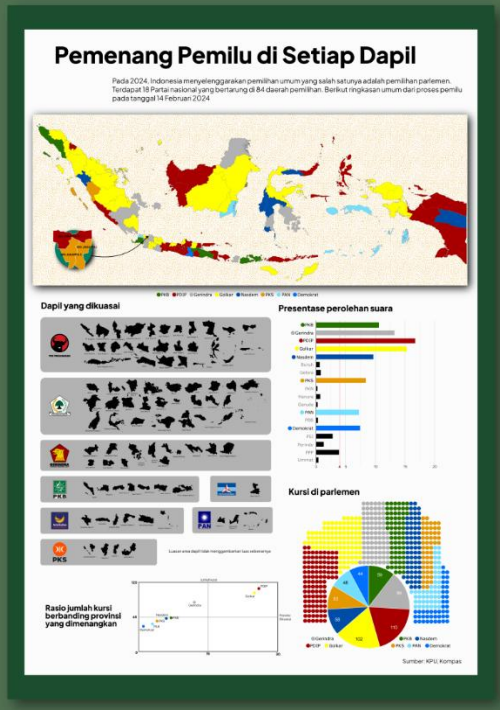
Compiled using processing in the form of a symbology configuration that utilizes values from altitude data. Produces a map with symbol density indicating the greater the existing height value. The material used is DEM (digital elevation model) elevation data.

The distribution map of new middle school students in Kutoarjo, Indonesia.



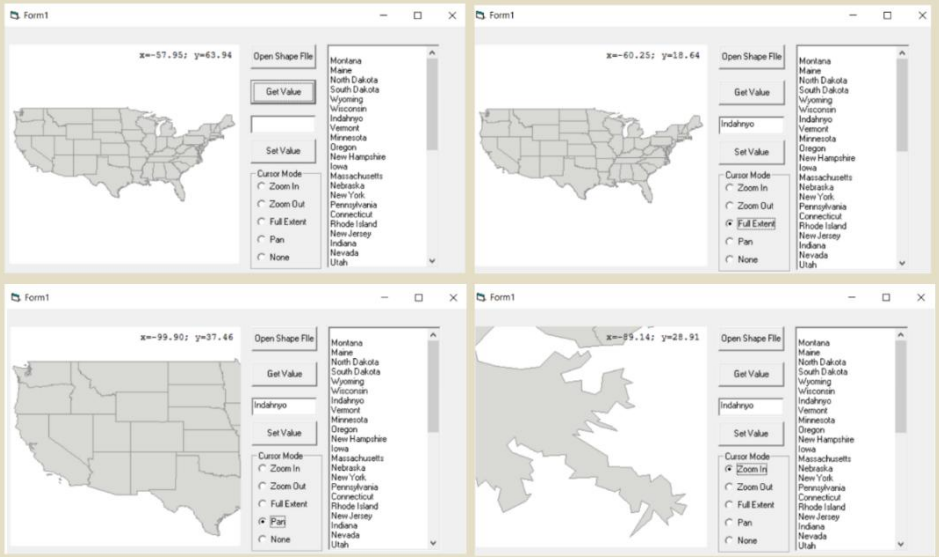
The map was prepared to take part in the 2022 GISCI Map Competiton map competition. The map shows the distribution of houses for students accepted into the State Middle School PPDB program in Purworejo Regency in 2021 at 4 State Middle Schools in Kutoarjo. Data taken from the Purworejo Regency PPDB Website. Data is presented in several forms of presentation, making it easier to read the data.

2024 Indonesia General Election Infographics



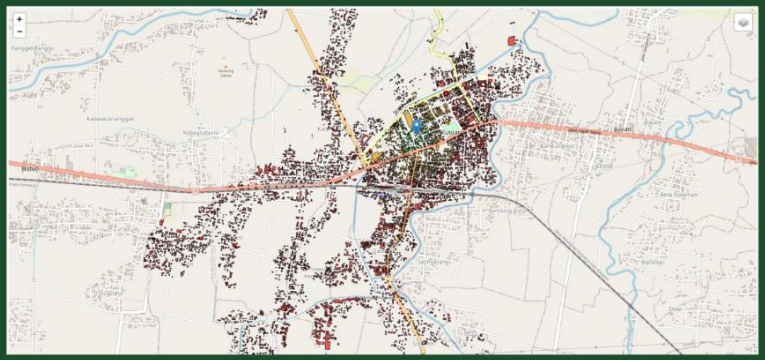
Infographics show a general description of the Indonesian Election 2024. Compiled from the official data of the General Election Commission (KPU) and Kompas.

Preparing a Simple Data Shapefile Program

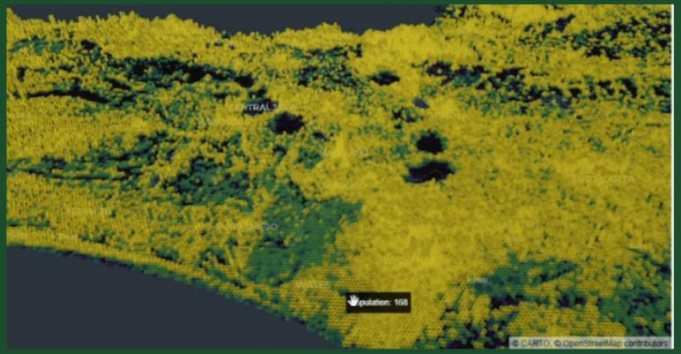


Compiled by Microsoft Visual Basic 6.0, using several programming tools and scripts.
Allows the program to open shapefile files, display object names, and rename objects.

Interactive Web Map

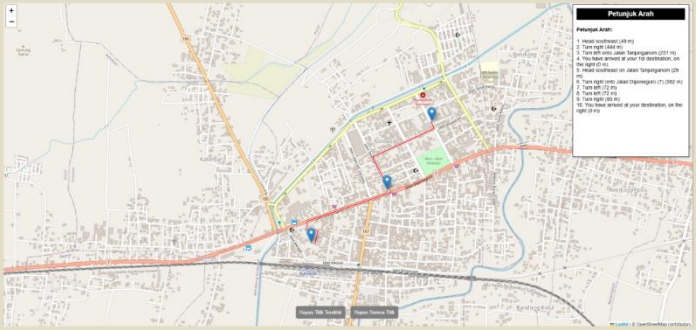


This project uses HTML, JavaScript, and the Leaflet library to create an interactive web map. GeoJSON is used to store building data, which is dynamically loaded and visualized. Users can adjust the map center and see buildings color-coded based on distance, with base maps provided by OpenStreetMap, Google, and CartoDB.



The interactive population map was created using deck.gl through R-Studio. The data used is the 2023 population contour data, which is publicly accessible.

Customize Google Map Appearance

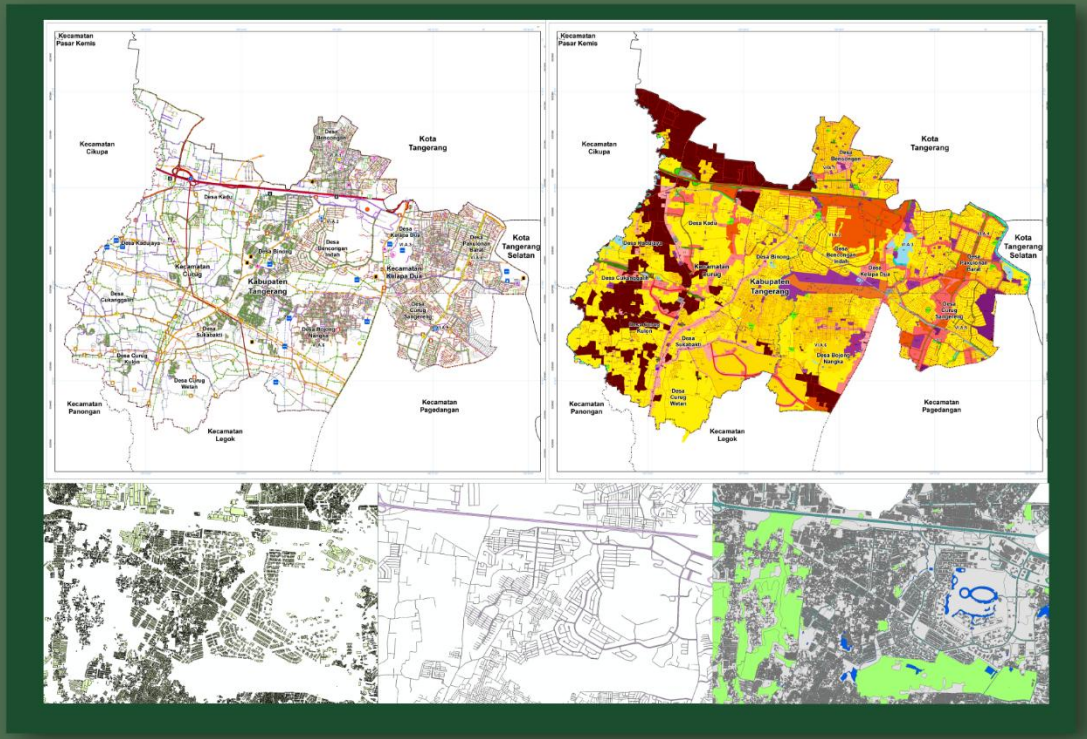


The navigation map system was developed using HTML, CSS, and JavaScript with Leaflet.js, enabling users to create and visualize optimal routes. The system includes interactive route mapping, allowing users to add multiple waypoints, draggable markers for adjusting locations dynamically, and a fixed-size direction legend with a scrollbar for improved readability. Additional refinements were made to enhance functionality, including features for adding, removing, and modifying waypoints.

Halftone Map

The NDVI analysis was conducted using Google Earth Engine (GEE) and Python, processing Sentinel-2 imagery while addressing authentication and deprecation issues. The results were exported in formats such as GeoJSON or raster for further visualization and interpretation.

Detail Spatial Plan Map (RDTR-Rencana Detail Tata Ruang)



The RDTR (Detail Spatial Plan Map) is prepared through spatial analysis based on RDTR preparation guidelines and collaboration with various parties such as the government and community representatives.