

Geovisualization

PORTFOLIO



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ABOUT ME



Work Experience

Full-time

GIS Specialist

Research Unit, Chulalongkorn University
[15/10/2020 – 15/09/2022]

Part-time

Cartographic Research Analyst

PhD student assistant, Chulalongkorn University
[10/08/2021 – 12/10/2021]

Internship

Geo-spatial intern

Ubicube GmbH, Austria
[01/05/2023 – 30/08/2023]

Education

Bachelor of Arts,
Chulalongkorn University,
Thailand
Major: Geography and
Geoinformatics
2016 – 2020

Master's Degree,
in Copernicus Master in
Digital Earth
University of Salzburg, Austria
2022 – 2023

Palacký University,
Czech Republic
Specialization:
Geovisualisation and
Gecommunication
2023 – Current

Publication

Vannameteet, E., Udomdechawet, P., & Pannoon, P. (2022). An Analysis and Assessment of Water Adequacy for Economic Crop Cultivation in Rayong Province. *Journal of Letters*, 51(2), 21–50.

Achievement

ML4Earth Hackathon,
3rd Place
by Technical University of
Munich

Foresight DRM: Disaster
Mapping Hackathon,
2nd Place
by Global Geo-Intelligence
Solutions Ltd

ML4Earth2023
Physics-aware machine
learning,
1st Place
by Technical University of
Munich

Tech Optimum Hacks,
1st Place
by Tech Optimum

Hobby



My weekends are often highlighted by visiting a local puppy cafe, a delightful place where coffee and canine affection blend seamlessly. In the welcoming space, I'm greeted by the gentle chaos of wagging tails and eager, friendly faces. I usually find a comfortable corner where I can sip my latte while a chubby puppy sits on my lap.



My hobby revolves around the fascinating world of Arduino robotics, a blend of engineering, creativity, and innovation. It begins with assembling various electronic components: sensors, motors, and the heart of the project, such as robotic cars, turning on the light and counting number project.



CHAPTER 1

Topographic Map

Created by using:



Topographic map describes a place (topos is Greek for place). For a long time, they have been used for military purposes but are now used as well by the public and as a background for spatial planning and other official uses. Topographic maps are produced at many scales and in many different designs.

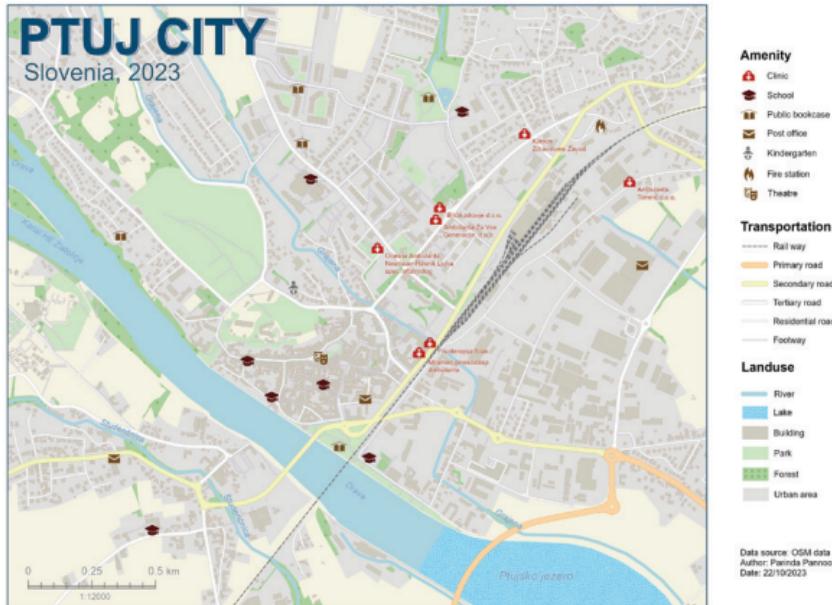
The map shows topographic of Ptuj city in Slovenia scaled 1:12,000 using OpenStreetMap data from QuickOSM plugin in QGIS.



The layers in this topographic maps are urban areas, buildings, forests, parks, rivers, lakes, road categories, railways, and 5 point of interests from OSM features.



The map symbols were designed similarly to OpenStreetMap web map application. Therefore, the feature of the map have the same color's style to OSM web map both natural features and human-made buildings.



This map is a part of Principles of Geovisualization course, Copernicus Master in Digital Earth programme. Palacký University, Olomouc, 2023.

CHAPTER 2

Choropleth Map

Created by using: 

Choropleth map applies the graduated-colour maps on areas of administrative or other non-natural regions. Used for expressing statistic information very often. Using relative data normalised by area size.

The map shows population density rate between below and above country average [pop./km²] in Czech Republic.



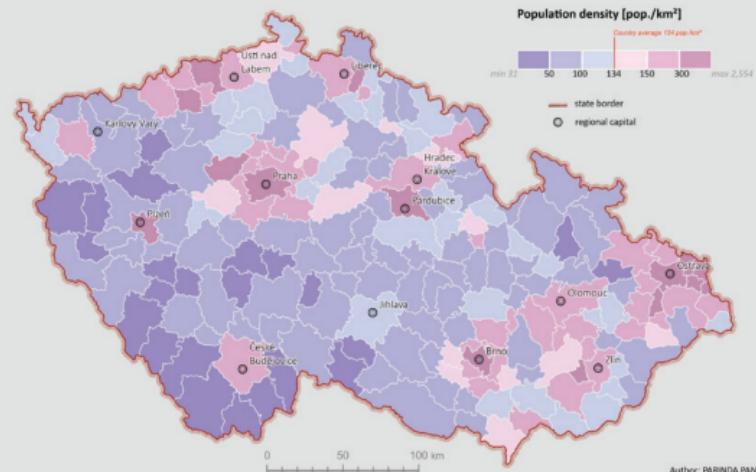
Qualifying choropleth map using diverging colour range with some middle value classifying the phenomenon into two parts, e.g. below and above average)



The density rate that below than the country average represents by purple tone and above the average is pink tone. Each color graduated from light to dark indicating lower density to higher density repetitively.

POPULATION DENSITY COMPARED TO THE COUNTRY AVERAGE

Czech Republic, 2023



This map is a part of Thematic Cartography course, Copernicus Master in Digital Earth programe. Palacký University, Olomouc, 2023.

CHAPTER 3

Multivariate Map

Created by using: 

Multivariate map is a method of thematic mapping that simultaneously encodes two variables (bivariate), or more (multivariate), into the symbolization of a map. This chapter represents Bivariate Choropleth Map, visualising two characteristics; tourist attraction and infrastructure.

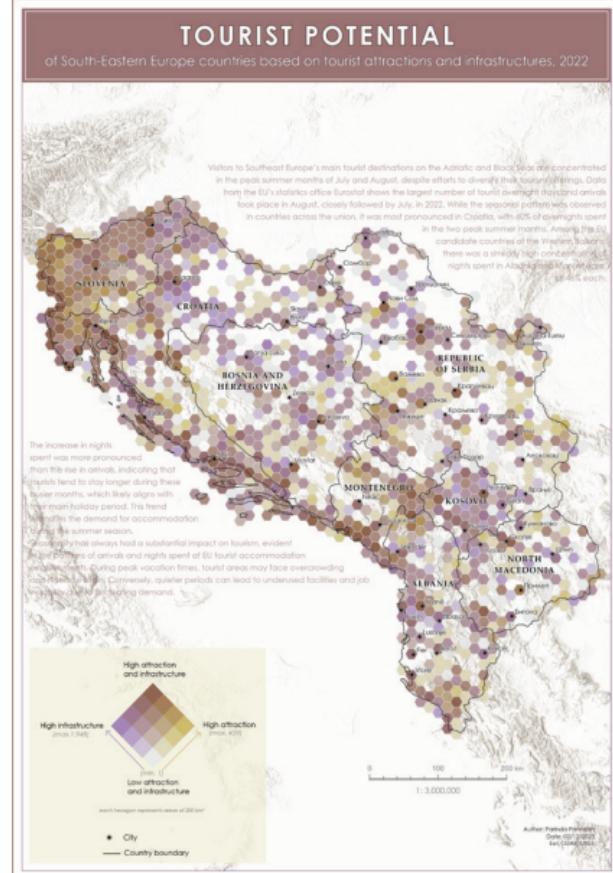
The map shows tourist potential based on tourist attraction and infrastructure in South-Eastern Europe.



The characteristics distinguished using different colour hue. Both characteristics visualised using graduating colour intensity.



The color hues are purple and yellow differing in both qualitative and quantitative way. Combination of high/low values of two phenomena results in a matrix of cells 4x4.



This map is a part of Thematic Cartography course, Copernicus Master in Digital Earth programme. Palacký University, Olomouc, 2023.

CHAPTER 4

Dot Density Map

Dot density method uses point symbols' scatter to visualize the geographic distribution of a large number of a phenomenon. The dots represent the actual locations of individual phenomena, or be either randomly or evenly placed in aggregation districts to represent a number of individuals

The map shows the distribution of temple locations using dot density method and the choropleth method is used to show house density in Chiang Mai, Thailand.



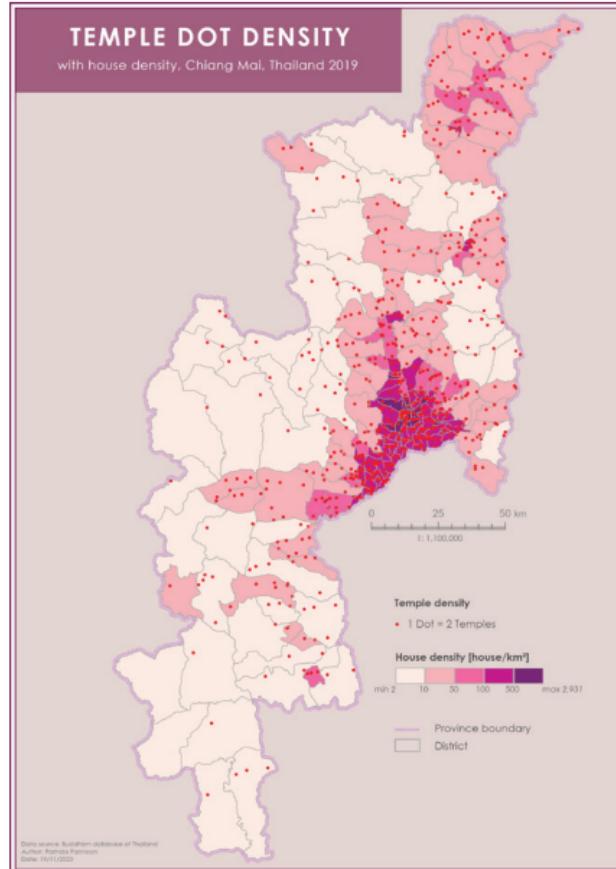
Created by using:



Dots represent multiple locations (1 dot = 2 temples) which distribute randomly. The visualised data is absolute quantitative data.



The color scheme in this map is pink-red tone. Red dots show temple density, the areas of the highest density dots melt together resulting red clustered areas. Pink represents house density each district graduated from light to dark indicating density levels.



This map is a part of Thematic Cartography course, Copernicus in Digital Earth programme. Palacký University, Olomouc, 2023.

CHAPTER 5

Map Poster

Map posters blend the art of cartography with graphic design, creating pieces that are both informative and visually appealing. The poster should include map elements, poster background, poster frame also additional elements such as side maps, graphs, diagrams, infographics, text fields or pictures.

The map shows main ethnic groups, classified by ethno-linguistic groups or language that they speak within the Thai ethnic group, living in Thailand. There are 3 maps in the poster showing different content related to ethnic groups living in the country.



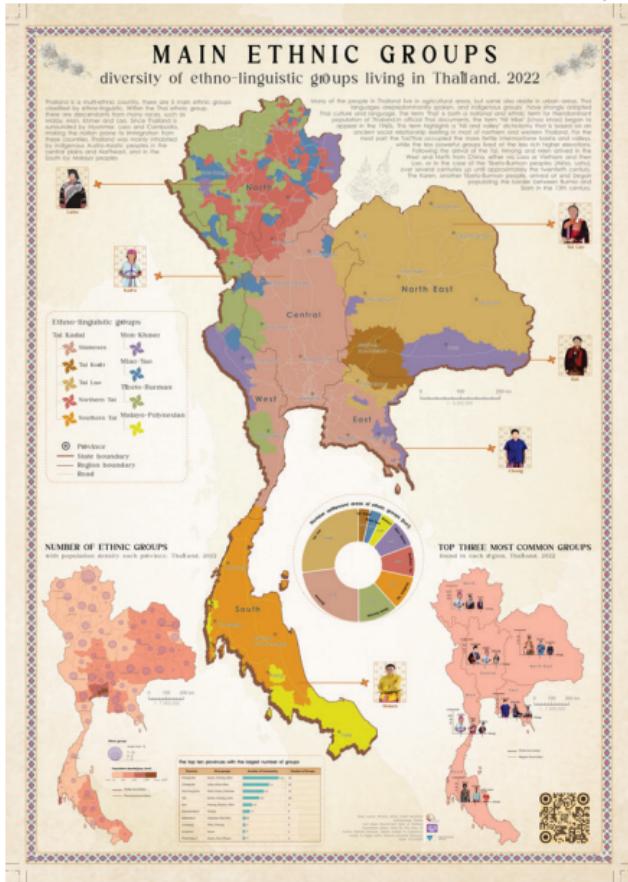
Created by using: **Flourish** **AI**



Using a table and chart as data visualizations in the map to show additional related ethnic data. QR code also allows map users to interact with the features in the story map.



This poster mainly consists of earth-tone colors, which includes neutral tones of brown, green, gray, and beige. According to the poster concept is about indigenous groups also their long history. Therefore, it is best to use this tone because it is related to nature and vintage style.



This map is a part of Design in Geovisualization course, Copernicus Master in Digital Earth programme. Palacký University, Olomouc, 2023.

CHAPTER 6

3D Building Model

3D building model used to create realistic simulations of real-life buildings for various purposes. This Model was created by using SketchUp software.

Modeling involves defining the shape and structure of objects, which can range from simple geometric forms like cubes and spheres to complex structures.



The model simulated Royal Theatre located in Bangkok, Charoen Krung road, Thailand. The building has a towering rectangular shape, which represents stability. The open spacious space inside without a pillar allows people to see through walls, hinged doors, and other elements.



In addition, the building has a complex structure. The first floor is an open space and two separated balconies on the second floor. There are five main polygons, the middle building is an octagonal structure and surrounded by the rest four rectangular buildings.



Beige is the main color of the building, it used for the walls. Yellow and Red are used for the neon light signs and the marquee. The old movie posters at the front of the building showing Thai movie lists. These elements make the 3D model looks like the actual theatre.



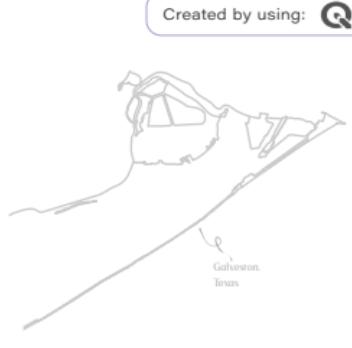
CHAPTER 7

Unconventional Map

Unconventional or unusual map is a creative and often artistic representations of geographic spaces that deviate from the traditional approach of cartography. These maps prioritize unique perspectives, thematic expressions, and artistic elements.

The map shows the unconventional map of Galveston island, Texas, United state. It adjusted creatively by customizing QGIS styles.

The inspiration for this map came from my summer in 2019 when I visited to Texas. Galveston is the Historic District, exciting entertainment and great shopping, it offers a wide array of attractions on land and sea. This place allows us to sunbathing, sailing, surfing or kayaking, and spend an amazing day at the beach.



Created by using:

Blue color is the main color scheme in this map because the area is attached with the ocean also some part of the island is a wetland. For the red color of the title is related to one of Texas's flag colors



The layer styles are customized by importing pre-defined styles from other authors available at internet. The pattern of this map is a style set with highly modifiable patterns. You can change color, and size.

The style is derived from the free collections by QGIS Style-Hub.

This map is a part of Design in Geovisualization course, Copernicus Master in Digital Earth programe. Palacký University, Olomouc, 2023.



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