MALAYSIA ELECTION DATA VISUALIZATION USING HEXAGON TILE GRID MAP

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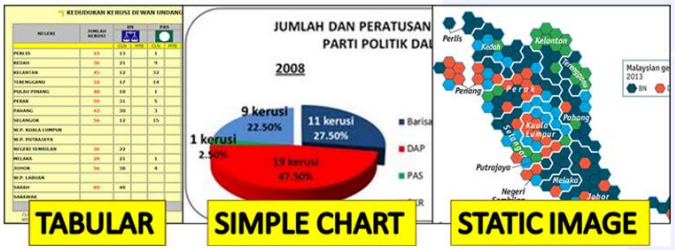
INTRODUCTION

Data visualization is a way of representing data in a form of graphical representation to help the viewer to understand the data that is being visualized. Other countries such as United States of America, United Kingdom, Australia and India have visualization their election result data using map visualization. However, most of election data in Malaysia are represented in tabular format, simple charts or non-interactive graphs. This creates a problem for certain viewers because they could not understand the context of the data. The aim of this project is to represent the election data in a simplified approach using hexagon tile grid map data visualization. Hexagon tile grid map data visualization is a type of map data visualization using a group of hexagon tiles to

PROBLEM STATEMENT



Hard to view

Too simple

Cannot explore the data

PROJECT OBJECTIVE

- [x] To identify the suitable data visualization technique for Malaysia Election Data
- [x] To develop a system based on the chosen technique for Malaysian Election Data
- [x] To validate the accuracy of visual with the actual election data

PROJECT SCOPE

MALAYSIA ELECTION DATA

- Focuses on Parliament (222 seats)
- Does not focus on Dewan Undangan Negeri (DUN)

DATA VISUALIZATION

- Focuses on Map Data Visualization, more interactive & dynamic
- Apply data visualization approach from US, UK, Australia & India

PROJECT SIGNIFICANCE

POLITICIAN

PUBLIC AUDIENCE

METHODOLOGY

WATERFALL MODEL

REQUIREMENT ANALYSIS
- Determine Malaysia election data visualization problem
- Determine similar system from US, UK, Australia & India
- Find solution

SYSTEM DESIGN
- Design system flow
- Design UI
- Determine technology

IMPLEMENTATION
- Implement system in small unit
- Integrate all units

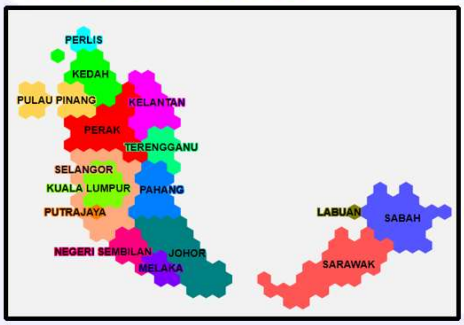
TESTING
- Validate system accuracy

OBJECTIVE 1

OBJECTIVE 2

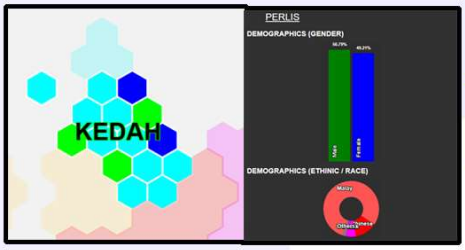
OBJECTIVE 3

PROJECT RESULT



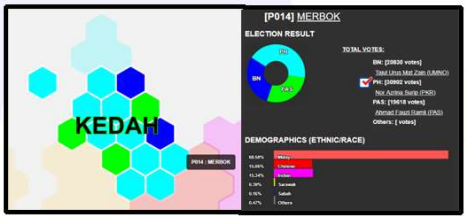
1st Level of Information

Click on state



2nd Level of Information

Click on hexagon (parliament)



3rd Level of Information