

# Interface Design for SEIFA

Haonan Li

September 9, 2018

## 1 Introduction

The interface consists of four parts. Control Panels, Map, Color Bar and Text Box.

## 2 Implementation

**Control Panels:** There are five buttons. The first is controller of color schemes. Once click, it will change the color scheme. There are 4 color schemes in total. Other four buttons are used to visualize the statistical data. They are listed below:

- IRSD: Index of Relative Socio-economic Disadvantage
- IER: Index of Economic Resources
- IEO: Index of Education and Occupation
- URP: Usual Resident Population

**Map:** The whole map of Australia, the drawing process is very slow so that some tricks was used. Specifically, the map will not refresh entirely unless user click the control panel. While the area border of mouse hovered will be highlight and recover when mouse move out. If user want to change the color scheme or data visualized, it will takes some time.

**Color Bar & Color Schemes:** The color bar will display when user choose a statistics to display. There are four color schemes in total. They are initialized at the very beginning. The colors are well designed.

**Text Box:** The information of the mouse hovered position will displayed here. For the map, it will display the area's name. For the control panels, it will display the full name of the statistics.

## 3 Appendix

1. The geoMap library (<https://www.gicentre.net/software/#/geomap/>)
2. The ControlP5 library (<http://www.sojamo.de/libraries/controlP5/>)
3. The SEIFA 2011 indexes (<http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage>)