

Team Members

Philip Searcy

Jonathan Yim

Kanishk Ali Khanna

Vinh Quang Ngyuen

DUNDEE QUACKATHON 2020

INTERACTIVE WORLD MAP

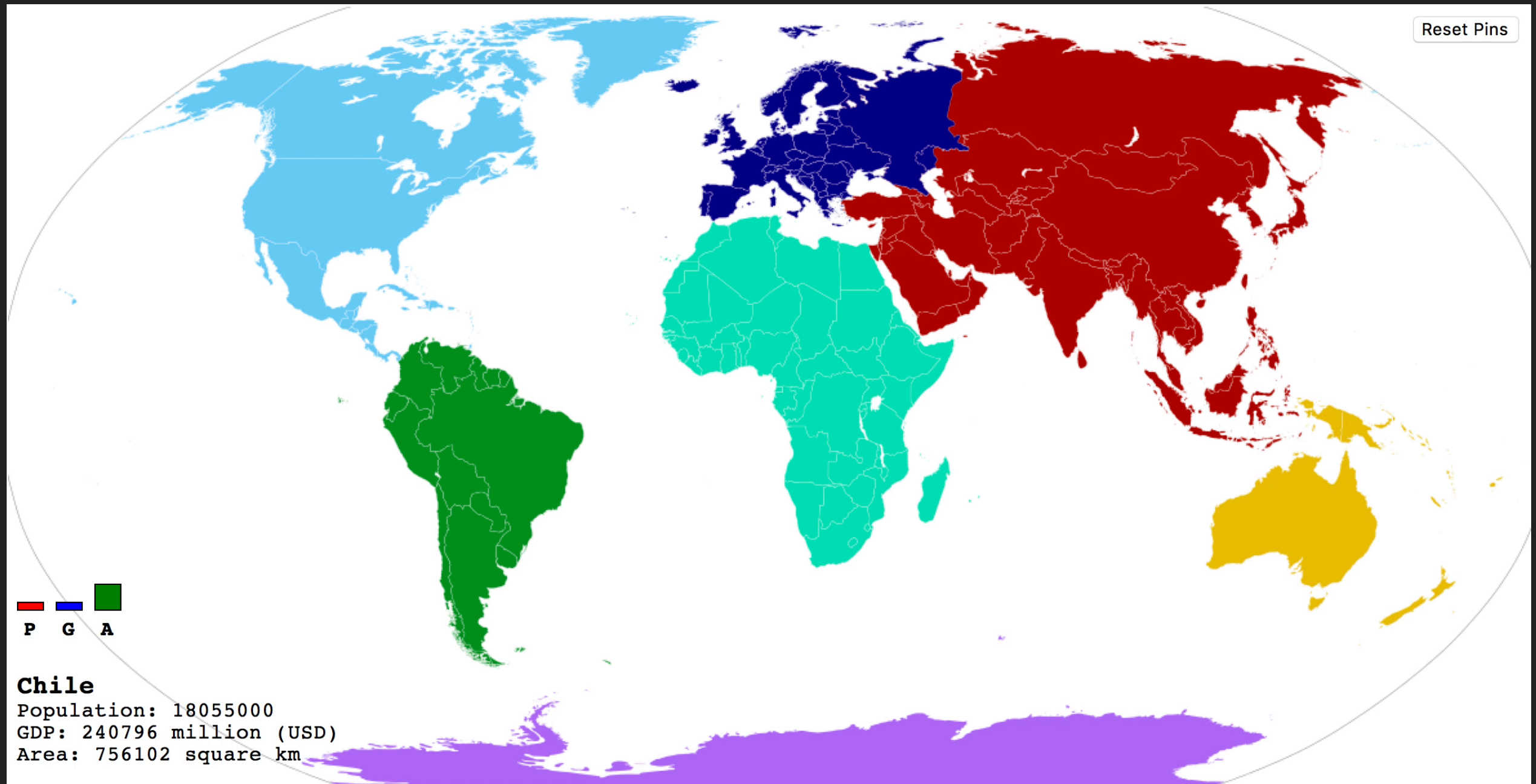
OVERVIEW

- ▶ Built an interactive Python application which allows a person to traverse the world map and gain insights
- ▶ User can learn about any country, see demographic statistics and see the trends occurring in a country
- ▶ A country flag is attached to the cursor and constantly changes based on which country one is over
- ▶ The user can add pins to the map so that they can save information while using the platform

TECHNOLOGIES USED

- ▶ Built entirely using Python3
- ▶ GUI - tkinter
- ▶ Data Collection - pytrends, kaggle, Wikipedia
- ▶ Data Analysis - pandas
- ▶ Coordinate Retrieval - reverse_geocode
- ▶ Image handling - PIL (ImageTk, Image)

VIDEO DEMO



LIVE DEMO

REAL LIFE APPLICATIONS

- ▶ Quick way to gain info through trends
- ▶ Educational setting for school students
- ▶ Travelling and discovering new places to go for holiday
- ▶ Geography Geek Paradise

FUTURE PLANS

- ▶ Displaying additional data and statistics through integration from online streams of data, including:
 - ▶ Cost of living, human development index
 - ▶ Live news feeds + images
- ▶ Use of a 3D globe supporting movement and zoom, with information on individual cities and towns displaying as required
- ▶ More user interaction, e.g. customising + moving pins
- ▶ Development into a web app for ease of public use

THANK YOU

ANY QUACKTIONS?

(sorry)