

# Shiny Proposal Template

Group name: “The World Cup Winners” or “The Economists”

Title: Economic development over time and place, The accuracy of world cup predictions

## Purpose

One general topic we are interested in exploring is economic development and GDP. We are interested in how GDP has changed across different regions. We are also interested in how important world events corresponding to particular times periods (ie. WW2) changed GDP. We could potentially join the dataset we found on GDP with a dataset on other measures such as world happiness or government stability, and see how economic statistics relate to these other measures.

Another topic we were interested in is data on the world cup. Questions we are interested in investigating is whether there is a home team advantage, how attendance and goals scored have changed over time, and whether the amount of goals scored is related to attendance. We also found a website that attempted to predict results of the world cup, and we were interested in comparing these predictions to the actual results.

## Data

We have a CSV of the GDP of various countries over 50 years <https://data.worldbank.org/indicator/NY.GDP.MKTP.KD.ZG>

We could join this CSV with other economic/statistical information about countries over the past 50 years ie. a quality of government dataset or world happiness report dataset. The biggest difficulty in wrangling this data will be trying to align the dataset about GDP with the other datasets.

We have a dataset on the world cup. It contains info about the matches, players, and results of world cups over the years. We also have a 2014 world cup prediction csv, which contains predictions about that world cup from another website. The biggest challenge in this dataset would also be aligning the data in the CSV about the world cup matches with the prediction csv, and making sure there is actually a way to confirm those predictions.

Other links to possible csvs: <https://www.stats.govt.nz/large-datasets/csv-files-for-download/> <https://www.kaggle.com/abecklas/fifa-world-cup?select=WorldCupMatches.csv> <https://data.world/fivethirtyeight/world-cup-predictions> <https://www.kaggle.com/ajaypalsinghlo/world-happiness-report-2021>

## Shiny app

World cup: - People could investigate home team advantage/attendance by sorting the data by year or by team - Scatterplot of attendance vs year, and see if the world cup has gotten more popular - People could highlight specific points to see what host nation/world cup year they are looking at

Economic Development - People could sort by region, by specific country - People could pick out specific economic measures to chart on the plot - People could highlights or select specific points to see what country or region they are looking at