Gallup Relative Status Analysis README

**Preprocessing:**

1. **preprocessing\_master.R:** This file creates a list of all yearly raw Gallup data files, applies the processing functions, and writes them to disk.
2. **preprocessing\_functions.R:** This file loads all preprocessing functions and creates a master preprocessing function that is used in the **preprocessing\_master.R** script.
   * **munge\_data\_function.R:** This script munges the Gallup data (converting variables to appropriate type and scoring variables properly).
   * **select\_data\_function.R:** This script selects the variables we want for our analysis.
   * **demographically\_derived\_median\_income\_function.R:** This script calculates median income for age (decade), gender, and education group and then joins it back into the main Gallup data file.
   * **join\_census\_data\_function.R:** This script joins county-level census data to the Gallup data.
   * **join\_chr\_data\_function.R:** This script joins the County Health Rankings data (URL) to the Gallup data.
   * **write\_data\_function.R:** Writes data for each year to disk.
   * **combine\_munged\_data.R:** Combines the data from each year into one master file.
   * **standardize\_variables\_function.R:** Standardizes all continuous variables in the master file.

**Data Exports:**

1. **write\_gallup\_regression\_data.R**
2. **write\_gallup\_mediation\_data.R**

**Analysis Files:**

**Median Income Regressions:**

1. **fruit\_veg\_consumption.R**
2. **eat\_healthy.R**
3. **smoking.R**
4. **purpose\_wb.R**
5. **community\_wb.R**
6. **social\_wb.R**
7. **financial\_wb.R**

**Income Prediction Models:**

**Median Income Mediations:**

**Data Sources:**

1. **Census data**
2. **County Health Rankings data**: <https://www.countyhealthrankings.org/>