# Prepare Data

## Files

### Input

DataPrep.r

Data/final data.csv

### Output

Data/base data.rdata

## Description

* Creates rdata file serving as a base data source for simulation and cluster analysis.
* Covariates are identified

# Generate Parameters

## Files

### Input

ParGenSource.R

Param Gen.r

Data/base data.rdata

### Output

Params/YYYY-MM-DD/schPars.rdata

Params/YYYY-MM-DD/image.rdata

Params/School Parameters.csv

Data/simData.Rdata

Data/RGM Vars.Rdata

## Description

* Generates participation model parameters given overall response rates and SMDs
* Generates propensity to participate
* Generates SMD statistics

# Run Cluster Analysis

## Files

### Input

Data/base data.rdata

### Output

Params/Clusters.rdata

Paper Data/clusters-full-logs.rdata

## Description

* Performs cluster analysis with diagnostics
* Generates specified clusters

# Run Simulation

## Files

### Input

SimSource.R

SimTest.R

Data/simData.Rdata

Data/RGM Vars.Rdata

### Output

Data/YYYY-MM-DD/results r1000.rdata

Data/YYYY-MM-DD/runtime r1000.rdata

## Description

* Performs simulation
* Outputs results and runtime

# Analyze Results

## Files

### Input

Data/YYYY-MM-DD/results r1000.rdata

Data/YYYY-MM-DD/runtime r1000.rdata

Data/base data.rdata

Data/simData.Rdata

Data/RGM Vars.Rdata

### Output

Figs/

## Description

* Performs analysis of results