

Reproducible Research Project 1: Activity Monitoring

Bobby Sims

Objective

- Wearable device records steps taken per 5 minute intervals/daily
- Activity measured across 61 days
- Determine and display in plot form:
- Total, Mean Median steps/day across 61 day measurement period
- Mean steps per 5 min interval in an average 24 hour period
- Transform original dataset by interpolating missing data points (imputing days with NA values)
- All 8 NA days from initial data imputed with mean step values per 5 min
- Repeat analysis with transformed data set

Original Dataset

Activity



Number of days as recorded data points = 53

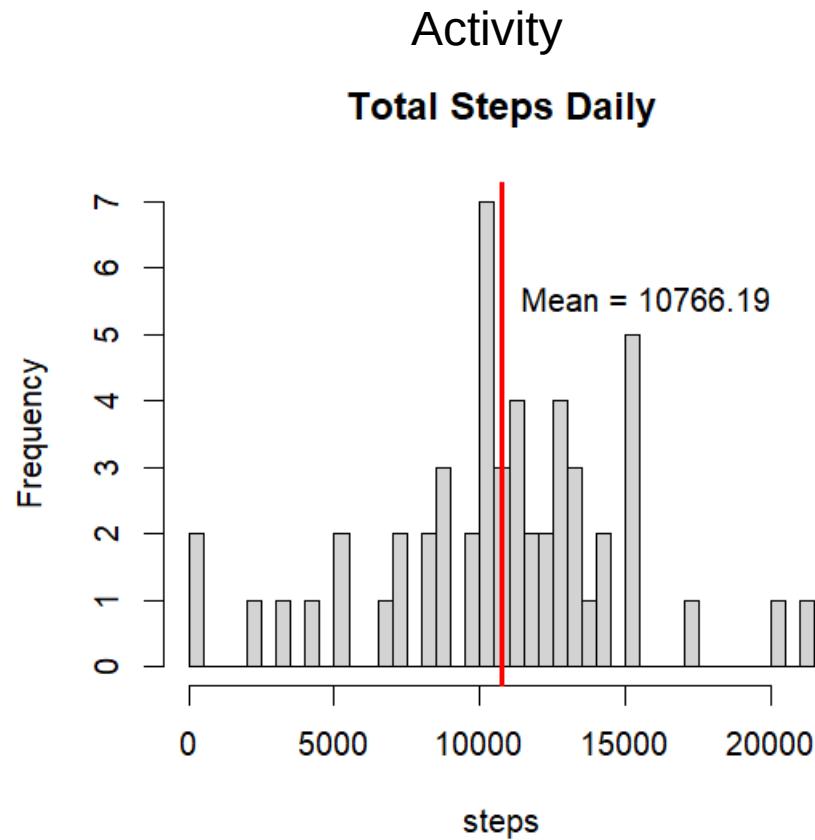
Transformed Dataset

Activity_1

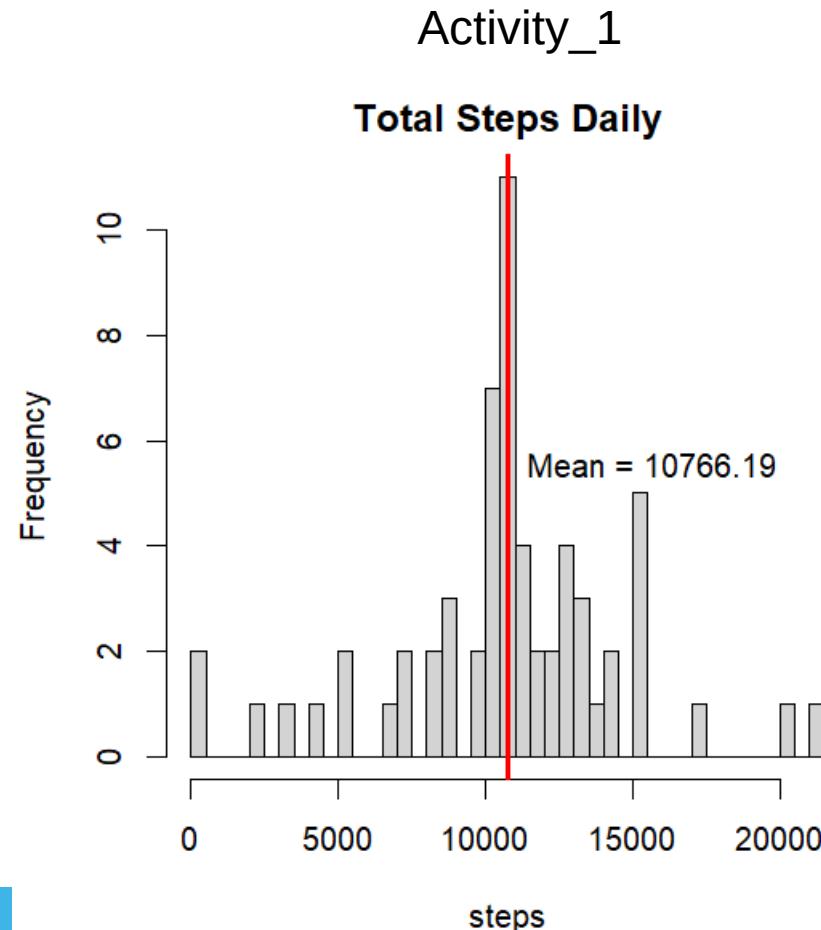


Number of days as recorded data points = 61

Original Dataset

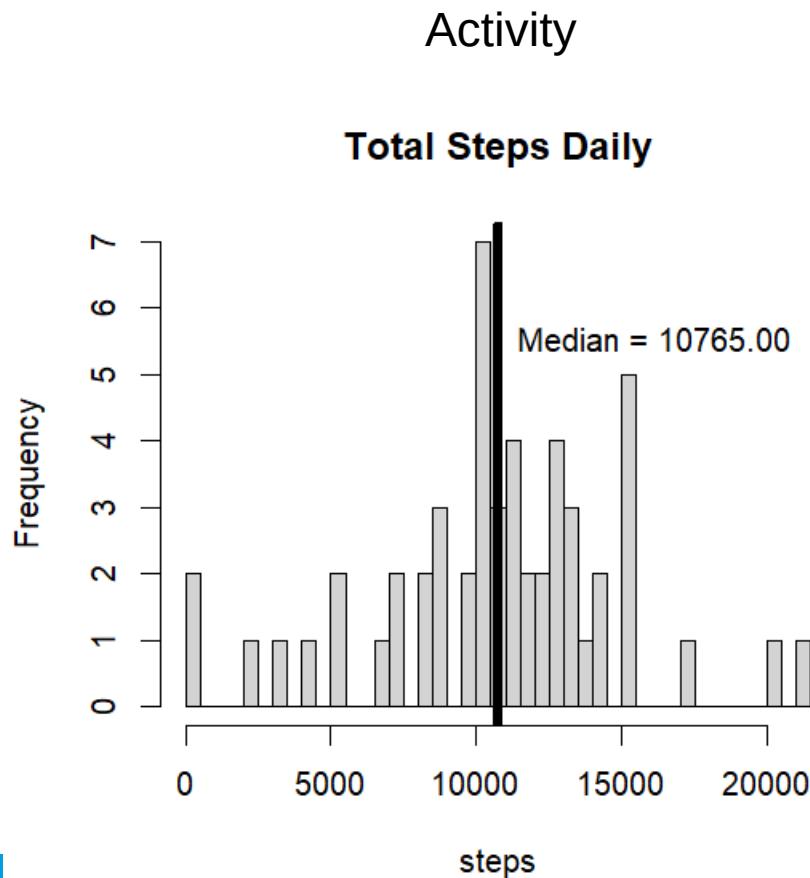


Transformed Dataset

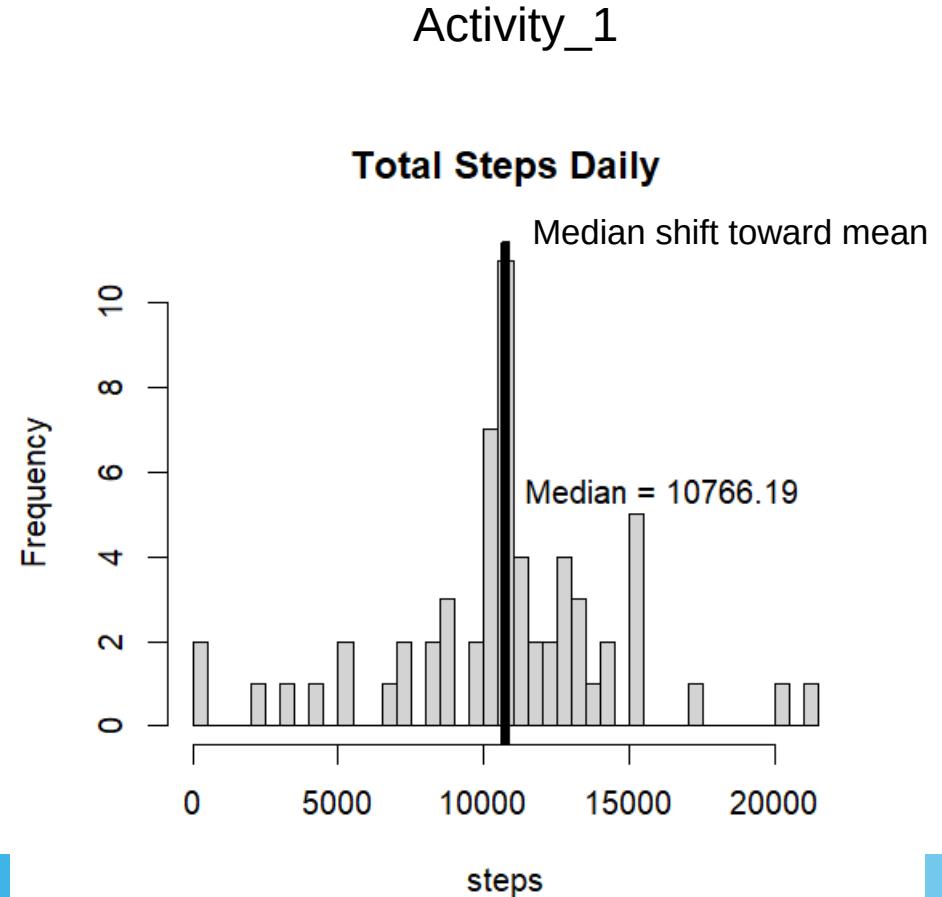


Imputed values result in increased frequency of measurements

Original Dataset

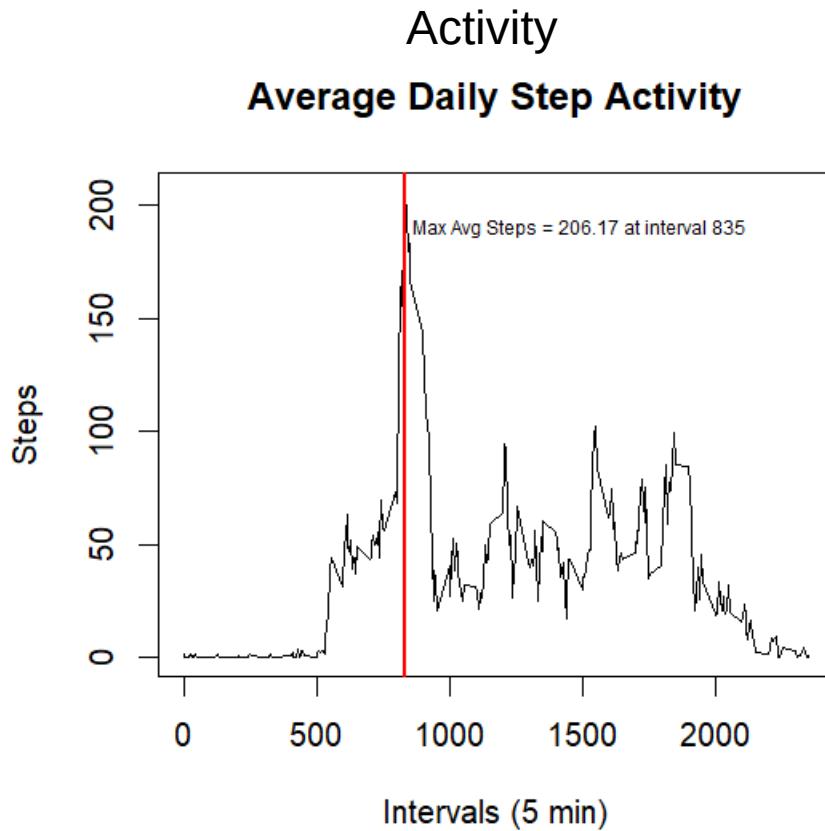


Transformed Dataset

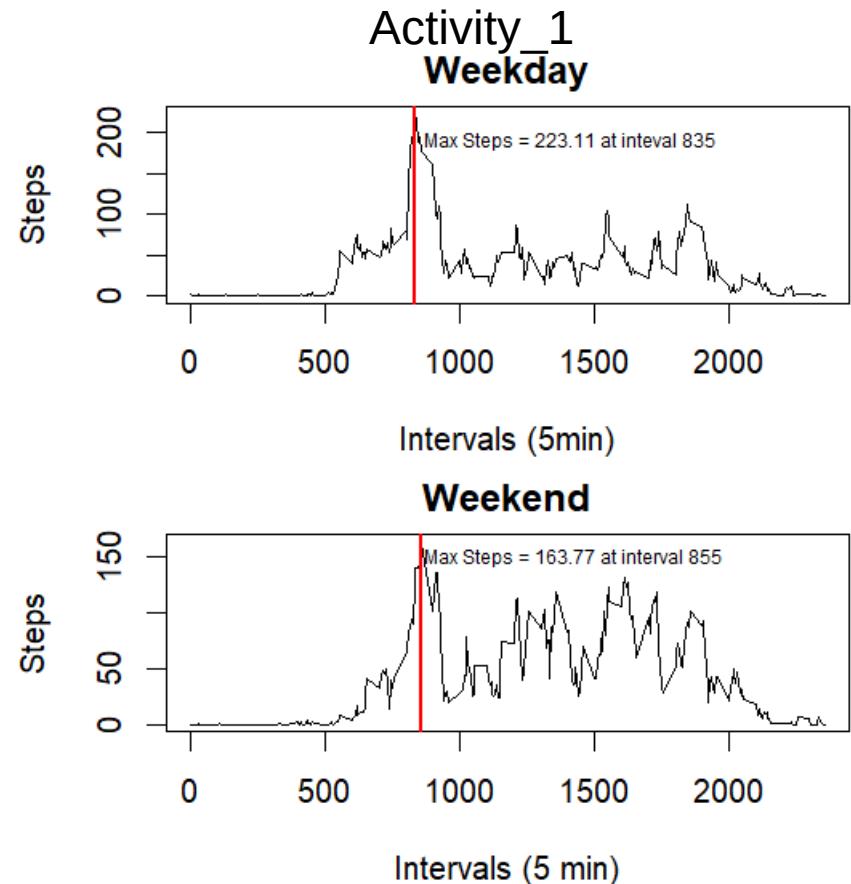


Imputed values result in increased frequency of measurements

Original Dataset



Transformed Dataset



More steps on average weekday