6 bellabeat

Data Analysis Exercise

Brad Hotle, June 20th 2024

Overview

- Introduction
- Problem Statement
- Summary of Data
- Results
- Action Items



Introduction

- Bellabeat Fashionable Health Trackers
- Fitbit Smart Device Data 30 Users
- ⁶ 'R' used for analysis and visualization











Problem Statement

- What are trends in smart device usage?
- How could these trends apply to Bellabeat customers?
- How could these trends help influence Bellabeat marketing strategy?

Data Analysis Exercise

(a) beliabeat

Summary of Data

- BMI, Weight
- Daily Summary of steps, distance, calories, level of activeness
- Logs of sleep level, heart rate, level of activeness









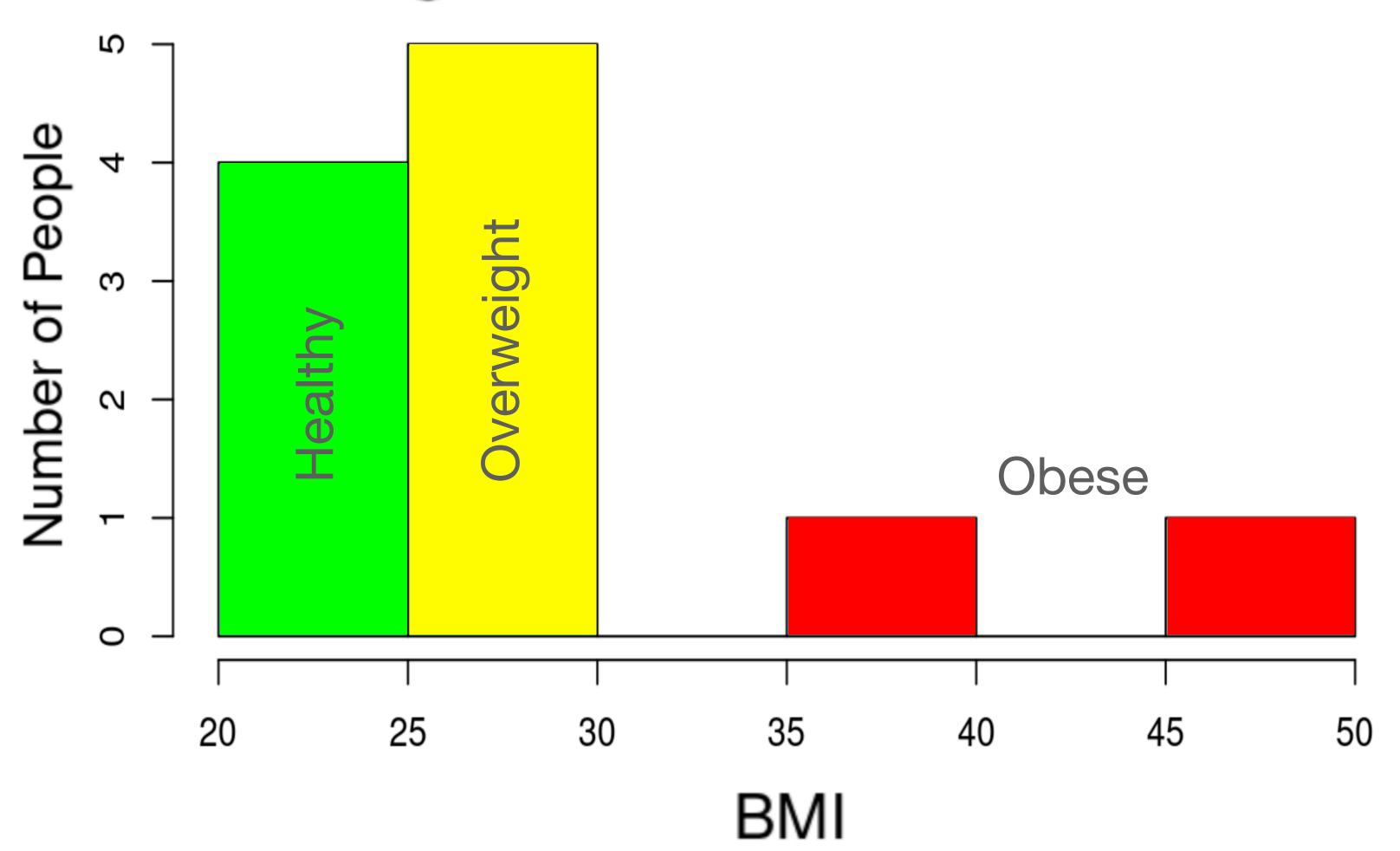








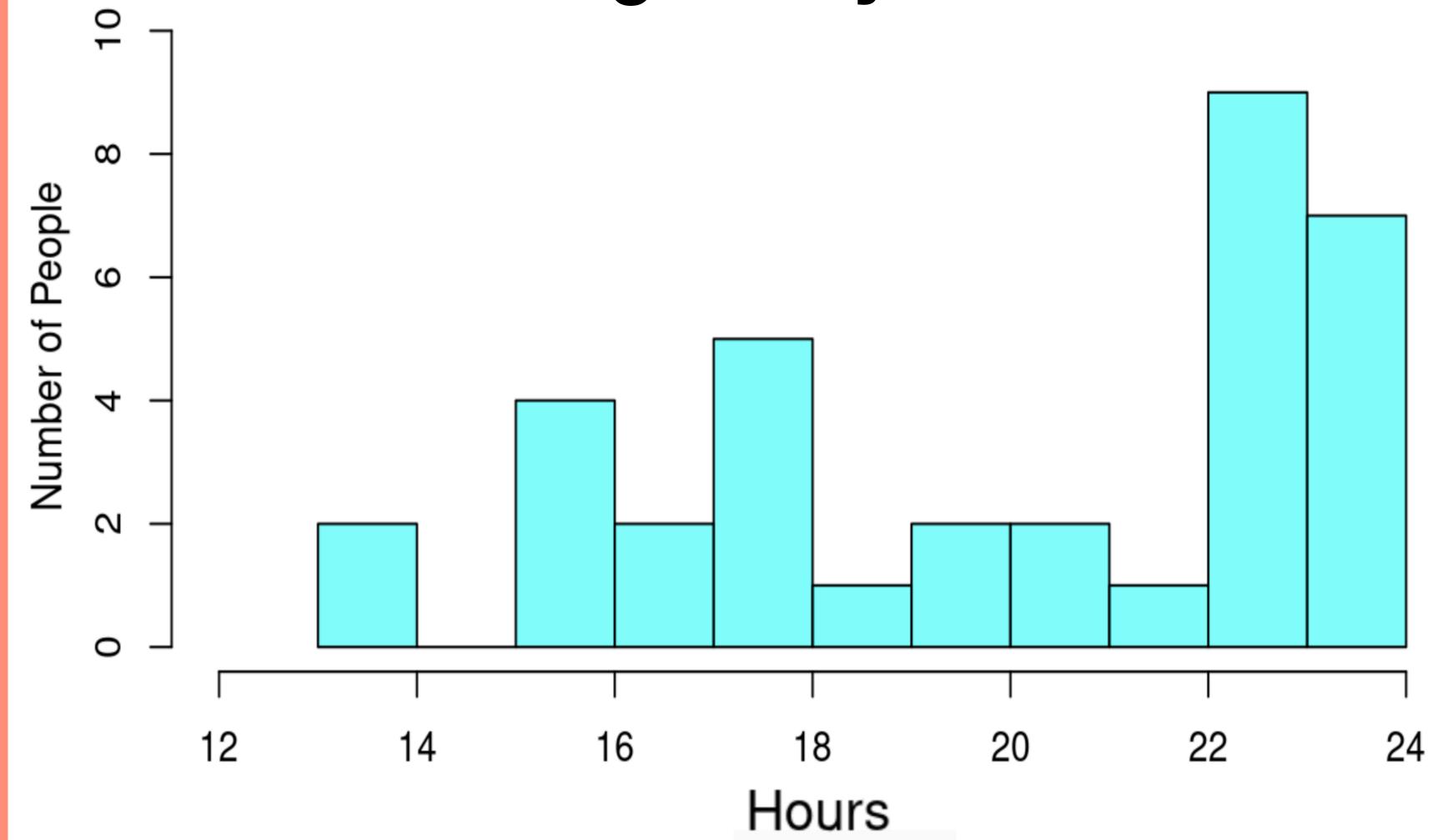
Histogram of Fitbit User BMI



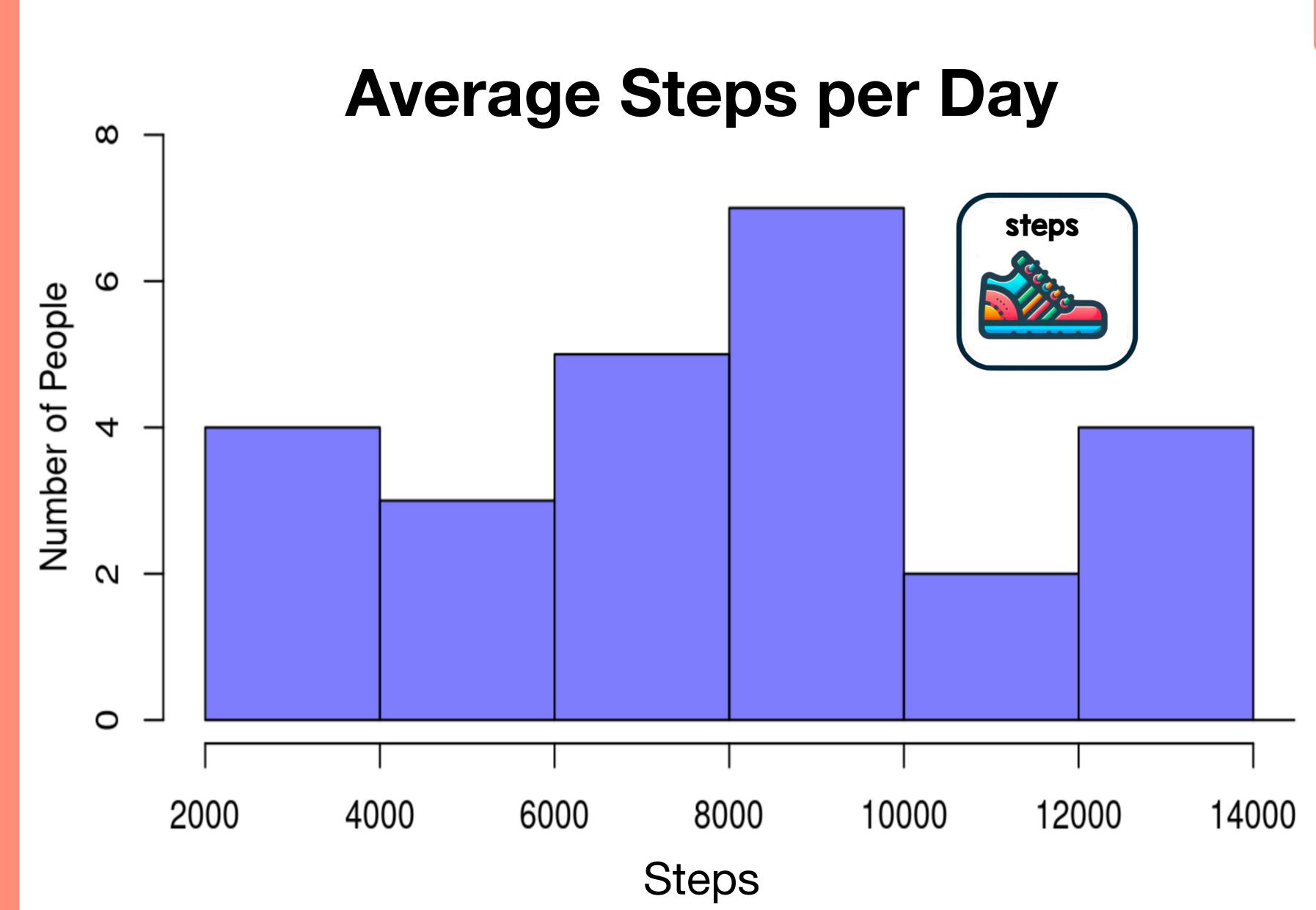
Only 11 users
Range from
healthy to obese

Data Analysis Exercise

Average Daily Hours



Most used more than 22 hours

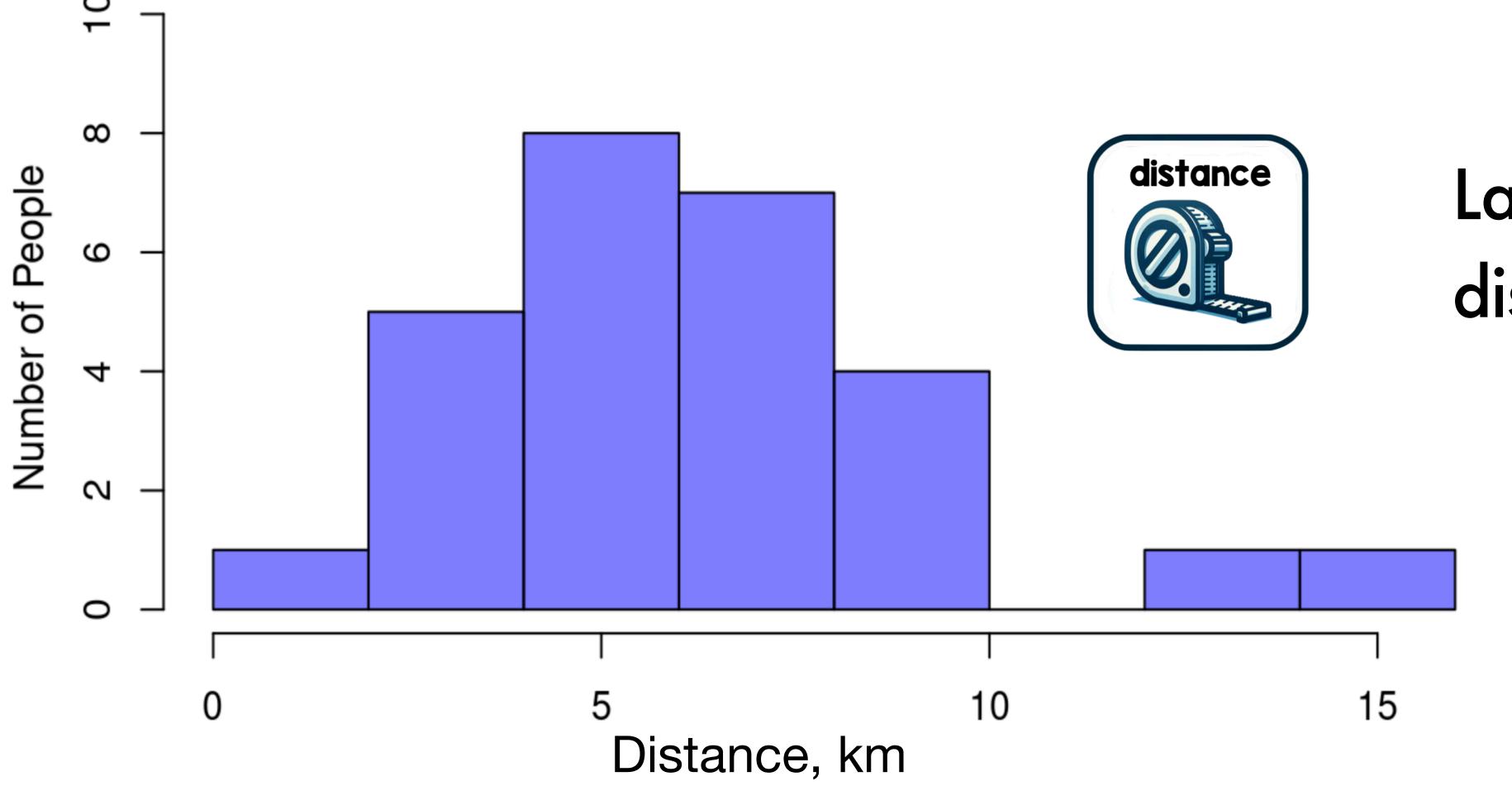




Large range from inactive to active



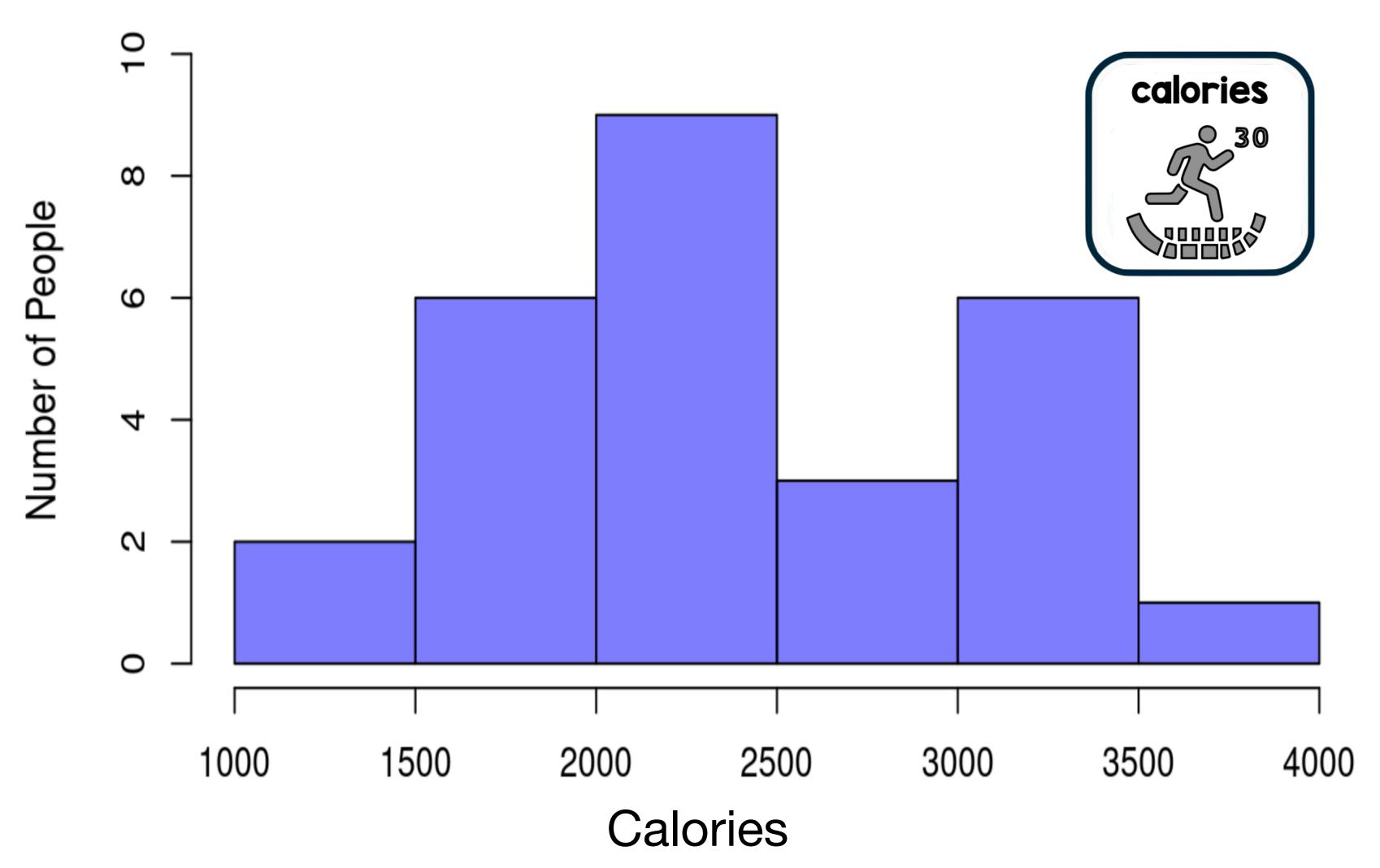
Average Distance per Day



Large range of distance

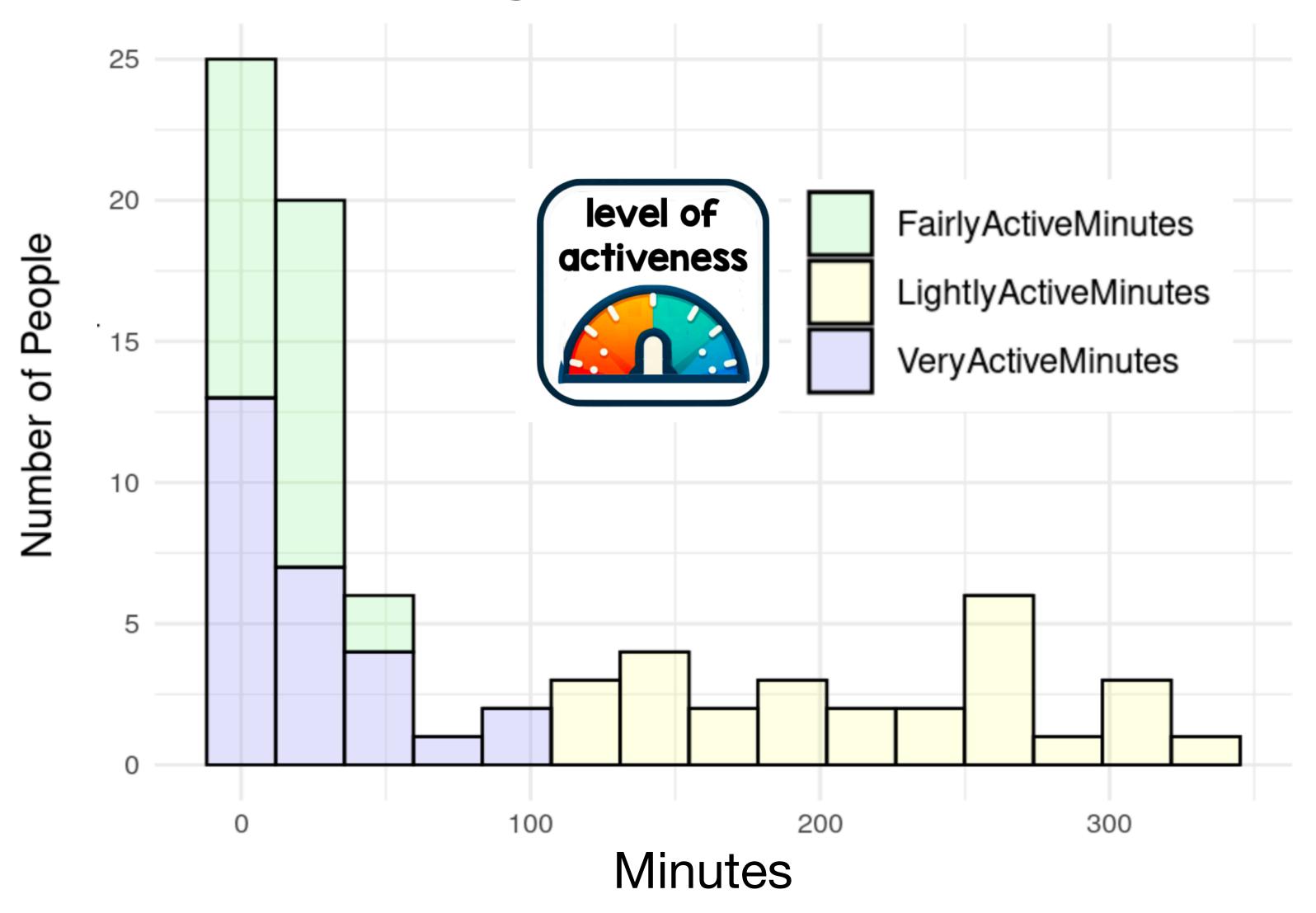
Data Analysis Exercise

Average Calories per Day



Also shows large range of calories

Minutes by Level of Activeness





Lightly Active is most common (after sedentary)

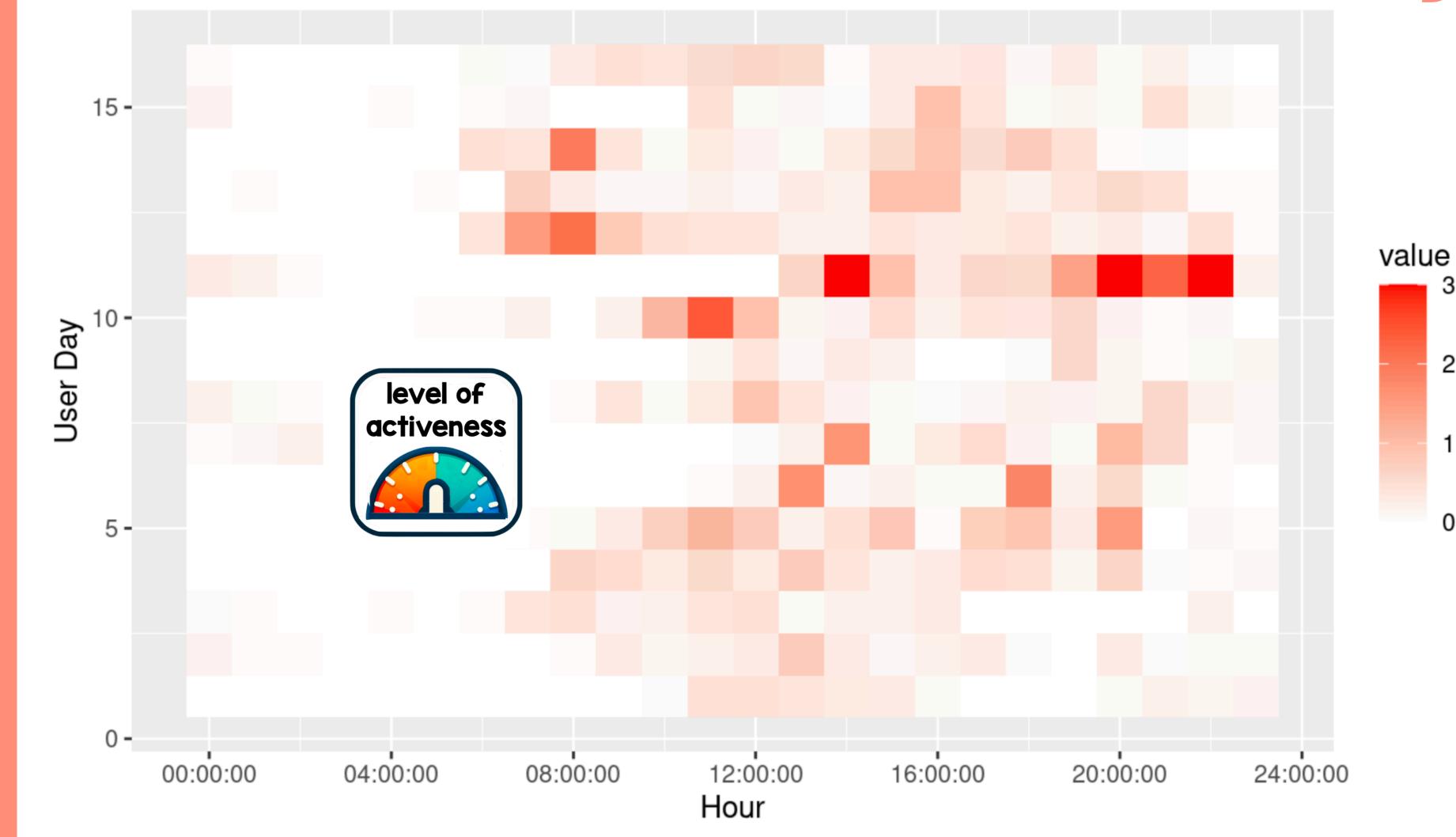
Fairly Active is least common

(b) bellabeat Sleep Level of 16 User Days Data Analysis Exercise Light Sleep sleep level Deep Sleep Rapid Eye Movement Range of 7 to 15 hours

6:00 PM 9:00 PM 12:00 AM 3:00 AM 6:00 AM 9:00 AM 12:00 PM 3:00 PM 6:00 PM

Hourly Intensity of 16 User Days





Some with high activity periods, some mostly low

Analysis

- Wide variety of activity among users
- Users can set goals for steps, calories, distance, etc.
- Useful measurement of heart rate and sleep quality



Action Items

- Focus on Bellabeat "Leaf"
- Appeal to female users who want to track health but remain stylish
- Run ads on Youtube and Facebook for women viewing health, fashion, nutrition content



