Name: Vikram Sahai Saxena

Net ID: vs799 RUID: 219004709

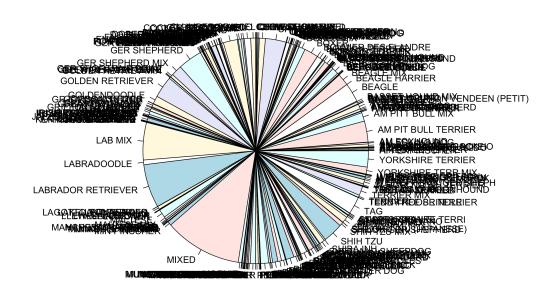
Module 6 Exercise: Pie Charts

i. The entire R code used when creating the pie chart in (1)

library(plyr)
dog<-read.csv("dogbreeds2017.csv")
breedcount<-count(dog, "Breed")
pie(breedcount\$freq, main="Breeds of Dogs", labels=breedcount\$Breed)

ii. Screenshot of the pie chart created in (1)

Breeds of Dogs



iii. A list of problems/weaknesses you see with this pie chart.

- Overlapping Labels: Many labels are overlapping, making it impossible to read the names of the dog breeds.
- **Too Many Slices**: There are too many slices in the pie chart, which makes it difficult to differentiate between them and understand the distribution effectively.
- Lack of Clarity: The chart lacks clarity and simplicity, which are crucial for quickly conveying information.

iv. A list of actions you could incorporate to reduce the identified problems/weaknesses

• **Reduce Overlap**: Increase the chart size or decrease the font size of labels to reduce overlap. Alternatively, use a legend or an interactive tooltip that displays the breed name when hovered over or clicked.

- **Simplify**: Consider grouping smaller categories into a single 'Other' category or use a bar chart for better comparison between categories.
- **Enhance Readability**: If the pie chart is necessary, provide additional charts or tables that list the breeds and their corresponding values to ensure all information is accessible.

v. The entire R code used when creating the pie chart in (4)

breedcount500<-subset(breedcount, breedcount\$freq >= 500)
pie(breedcount500\$freq, main="Breeds of Dogs (at least 500 per breed)",
labels=breedcount500\$Breed)

vi. Screenshot of the pie chart created in (4)

Breeds of Dogs (at least 500 per breed)

