$RWorksheet_Animas\#4c$

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```
#1 Use the dataset mpg
#a. Show your solutions on how to import a csv file into the environment
mpg <- read.csv("C:/RStudio/RWorksheet4/mpg.csv", header = TRUE, sep = ",")
mpg</pre>
```

| ## | | X ma | nufacturer | model | displ | year | cyl | trans | drv | cty |
|----|----|------|------------|--------------------|-------|------|-----|------------|-----|-----|
| ## | 1 | 1 | audi | a4 | 1.8 | 1999 | 4 | auto(15) | f | 18 |
| ## | 2 | 2 | audi | a4 | 1.8 | 1999 | 4 | manual(m5) | f | 21 |
| ## | 3 | 3 | audi | a4 | 2.0 | 2008 | 4 | manual(m6) | f | 20 |
| ## | 4 | 4 | audi | a4 | 2.0 | 2008 | 4 | auto(av) | f | 21 |
| | 5 | 5 | audi | a4 | | 1999 | 6 | auto(15) | f | 16 |
| ## | | 6 | audi | a4 | | 1999 | | manual(m5) | f | 18 |
| ## | | 7 | audi | a4 | | 2008 | 6 | auto(av) | f | 18 |
| ## | 8 | 8 | audi | a4 quattro | | 1999 | 4 | manual(m5) | 4 | 18 |
| ## | 9 | 9 | audi | a4 quattro | 1.8 | 1999 | 4 | auto(15) | 4 | 16 |
| ## | 10 | 10 | audi | a4 quattro | 2.0 | 2008 | 4 | manual(m6) | 4 | 20 |
| | 11 | 11 | audi | a4 quattro | 2.0 | 2008 | 4 | auto(s6) | 4 | 19 |
| ## | 12 | 12 | audi | a4 quattro | 2.8 | 1999 | 6 | auto(15) | 4 | 15 |
| ## | 13 | 13 | audi | a4 quattro | | 1999 | 6 | manual(m5) | 4 | 17 |
| ## | 14 | 14 | audi | a4 quattro | | 2008 | 6 | auto(s6) | 4 | 17 |
| ## | 15 | 15 | audi | a4 quattro | 3.1 | 2008 | 6 | manual(m6) | 4 | 15 |
| ## | 16 | 16 | audi | a6 quattro | 2.8 | 1999 | 6 | auto(15) | 4 | 15 |
| ## | 17 | 17 | audi | a6 quattro | 3.1 | 2008 | 6 | auto(s6) | 4 | 17 |
| ## | 18 | 18 | audi | a6 quattro | 4.2 | 2008 | 8 | auto(s6) | 4 | 16 |
| ## | 19 | 19 | chevrolet | c1500 suburban 2wd | 5.3 | 2008 | 8 | auto(14) | r | 14 |
| ## | 20 | 20 | chevrolet | c1500 suburban 2wd | 5.3 | 2008 | 8 | auto(14) | r | 11 |
| ## | 21 | 21 | chevrolet | c1500 suburban 2wd | 5.3 | 2008 | 8 | auto(14) | r | 14 |
| ## | 22 | 22 | chevrolet | c1500 suburban 2wd | 5.7 | 1999 | 8 | auto(14) | r | 13 |
| ## | 23 | 23 | chevrolet | c1500 suburban 2wd | 6.0 | 2008 | 8 | auto(14) | r | 12 |
| ## | 24 | 24 | chevrolet | corvette | 5.7 | 1999 | 8 | manual(m6) | r | 16 |
| ## | | 25 | chevrolet | corvette | 5.7 | 1999 | 8 | auto(14) | r | 15 |
| ## | 26 | 26 | chevrolet | corvette | 6.2 | 2008 | 8 | manual(m6) | r | 16 |
| ## | 27 | 27 | chevrolet | corvette | 6.2 | 2008 | 8 | auto(s6) | r | 15 |
| ## | 28 | 28 | chevrolet | corvette | 7.0 | 2008 | 8 | manual(m6) | r | 15 |
| ## | 29 | 29 | chevrolet | k1500 tahoe 4wd | 5.3 | 2008 | 8 | auto(14) | 4 | 14 |
| ## | 30 | 30 | chevrolet | k1500 tahoe 4wd | 5.3 | 2008 | 8 | auto(14) | 4 | 11 |
| ## | 31 | 31 | chevrolet | k1500 tahoe 4wd | 5.7 | 1999 | 8 | auto(14) | 4 | 11 |
| ## | 32 | 32 | chevrolet | k1500 tahoe 4wd | 6.5 | 1999 | 8 | auto(14) | 4 | 14 |
| ## | 33 | 33 | chevrolet | malibu | 2.4 | 1999 | 4 | auto(14) | f | 19 |
| ## | 34 | 34 | chevrolet | malibu | 2.4 | 2008 | 4 | auto(14) | f | 22 |
| ## | 35 | 35 | chevrolet | malibu | 3.1 | 1999 | 6 | auto(14) | f | 18 |

| ## | 36 | 36 | chevrolet | malik | nı 3.5 | 2008 | 6 | auto(14) | f | 18 |
|----|----|----------|-----------|----------------------------|--------|------|---|------------|---|----|
| | 37 | 37 | chevrolet | malik | | 2008 | 6 | auto(s6) | f | 17 |
| | 38 | 38 | dodge | caravan 2w | | 1999 | 4 | auto(13) | f | 18 |
| | 39 | 39 | dodge | caravan 2w | | 1999 | 6 | auto(14) | f | 17 |
| | 40 | 40 | dodge | caravan 2w | | 1999 | 6 | auto(14) | f | 16 |
| | 41 | 41 | dodge | caravan 2w | | 1999 | 6 | auto(14) | f | 16 |
| | 42 | 42 | dodge | caravan 2w | | 2008 | 6 | auto(14) | f | 17 |
| | 43 | 43 | dodge | caravan 2w | | 2008 | 6 | auto(14) | f | 17 |
| | 44 | 44 | • | caravan 2w | | 2008 | 6 | auto(14) | f | 11 |
| | 45 | 45 | dodge | | | 1999 | 6 | auto(14) | f | 15 |
| | | | dodge | caravan 2 | | | 6 | | f | 15 |
| | 46 | 46 | dodge | caravan 2 | | 1999 | | auto(14) | | |
| | 47 | 47 | dodge | caravan 2 | | 2008 | 6 | auto(16) | f | 16 |
| | 48 | 48 | dodge | caravan 2w | | 2008 | 6 | auto(16) | f | 16 |
| | 49 | 49 | dodge | dakota pickup 4w | | 2008 | | manual(m6) | 4 | 15 |
| | 50 | 50 | dodge | dakota pickup 4w | | 2008 | 6 | auto(14) | 4 | 14 |
| | 51 | 51 | dodge | dakota pickup 4w | | 1999 | 6 | auto(14) | 4 | 13 |
| | 52 | 52 | dodge | dakota pickup 4w | | 1999 | | manual(m5) | 4 | 14 |
| | 53 | 53 | dodge | dakota pickup 4w | | 2008 | 8 | auto(15) | 4 | 14 |
| ## | 54 | 54 | dodge | dakota pickup 4w | | 2008 | 8 | auto(15) | 4 | 14 |
| ## | 55 | 55 | dodge | dakota pickup 4w | 1d 4.7 | 2008 | 8 | auto(15) | 4 | 9 |
| ## | 56 | 56 | dodge | dakota pickup 4w | rd 5.2 | 1999 | 8 | manual(m5) | 4 | 11 |
| ## | 57 | 57 | dodge | dakota pickup 4w | 7d 5.2 | 1999 | 8 | auto(14) | 4 | 11 |
| ## | 58 | 58 | dodge | durango 4w | rd 3.9 | 1999 | 6 | auto(14) | 4 | 13 |
| ## | 59 | 59 | dodge | durango 4w | rd 4.7 | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 60 | 60 | dodge | durango 4w | rd 4.7 | 2008 | 8 | auto(15) | 4 | 9 |
| ## | 61 | 61 | dodge | durango 4w | rd 4.7 | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 62 | 62 | dodge | durango 4w | rd 5.2 | 1999 | 8 | auto(14) | 4 | 11 |
| ## | 63 | 63 | dodge | durango 4w | 7d 5.7 | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 64 | 64 | dodge | durango 4w | rd 5.9 | 1999 | 8 | auto(14) | 4 | 11 |
| ## | 65 | 65 | dodge | ram 1500 pickup 4w | rd 4.7 | 2008 | 8 | manual(m6) | 4 | 12 |
| ## | 66 | 66 | dodge | ram 1500 pickup 4w | | 2008 | 8 | auto(15) | 4 | 9 |
| ## | 67 | 67 | dodge | ram 1500 pickup 4w | | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 68 | 68 | dodge | ram 1500 pickup 4w | | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 69 | 69 | dodge | ram 1500 pickup 4w | | 2008 | 8 | manual(m6) | 4 | 12 |
| ## | 70 | 70 | dodge | ram 1500 pickup 4w | | 2008 | 8 | manual(m6) | 4 | 9 |
| ## | 71 | 71 | dodge | ram 1500 pickup 4w | | 1999 | 8 | auto(14) | 4 | 11 |
| ## | | 72 | dodge | ram 1500 pickup 4w | | 1999 | | manual(m5) | 4 | 11 |
| | 73 | 73 | dodge | ram 1500 pickup 4w | | 2008 | 8 | auto(15) | 4 | 13 |
| | 74 | 74 | dodge | ram 1500 pickup 4w | | 1999 | 8 | auto(14) | 4 | 11 |
| | 75 | 75 | ford | expedition 2w | | 1999 | 8 | auto(14) | r | 11 |
| | 76 | 76 | ford | expedition 2w | | 1999 | 8 | auto(14) | r | 11 |
| | 77 | 77 | ford | expedition 2w | | 2008 | 8 | auto(16) | r | 12 |
| | 78 | 78 | ford | explorer 4w | | 1999 | 6 | auto(15) | 4 | 14 |
| | 79 | 79 | ford | explorer 4w | | 1999 | | manual(m5) | 4 | 15 |
| | 80 | 80 | ford | - | | 1999 | 6 | auto(15) | 4 | 14 |
| | 81 | 81 | ford | explorer 4w explorer 4w | | 2008 | 6 | auto(15) | 4 | 13 |
| | | | | - | | | | | | |
| ## | 82 | 82 | ford | explorer 4 | | 2008 | 8 | auto(16) | 4 | 13 |
| | 83 | 83 | ford | explorer 4w | | 1999 | 8 | auto(14) | 4 | 13 |
| ## | 84 | 84 | ford | f150 pickup 4w | | 1999 | 6 | auto(14) | 4 | 14 |
| | 85 | 85 86 | ford | f150 pickup 4w | | 1999 | | manual(m5) | 4 | 14 |
| ## | 86 | 86 | ford | f150 pickup 4w | | 1999 | | manual(m5) | 4 | 13 |
| ## | 87 | 87 | ford | f150 pickup 4w | | 1999 | 8 | auto(14) | 4 | 13 |
| ## | 88 | 88 | ford | f150 pickup 4w | | 2008 | 8 | auto(14) | 4 | 13 |
| ## | 89 | 89 | ford | f150 pickup 4w | na 5.4 | 1999 | 8 | auto(14) | 4 | 11 |

| ## | 90 | 90 | ford | f150 pickup 4wd | 5.4 | 2008 | 8 | auto(14) | 4 | 13 |
|----|-----|-----|------------|--------------------|-----|------|---|------------|---|----|
| | 91 | 91 | ford | mustang | | 1999 | 6 | | r | 18 |
| | 92 | 92 | ford | mustang | | 1999 | 6 | auto(14) | r | 18 |
| ## | 93 | 93 | ford | mustang | | 2008 | 6 | | r | 17 |
| ## | 94 | 94 | ford | mustang | | 2008 | 6 | auto(15) | r | 16 |
| ## | 95 | 95 | ford | mustang | | 1999 | 8 | auto(14) | r | 15 |
| ## | 96 | 96 | ford | mustang | | 1999 | 8 | | r | 15 |
| ## | 97 | 97 | ford | mustang | | 2008 | 8 | manual(m5) | r | 15 |
| ## | 98 | 98 | ford | mustang | | 2008 | 8 | auto(15) | r | 15 |
| ## | 99 | 99 | ford | mustang | | 2008 | 8 | 1 1 | r | 14 |
| ## | 100 | 100 | honda | civic | 1.6 | 1999 | 4 | manual(m5) | f | 28 |
| ## | 101 | 101 | honda | civic | 1.6 | 1999 | 4 | auto(14) | f | 24 |
| ## | 102 | 102 | honda | civic | 1.6 | 1999 | 4 | manual(m5) | f | 25 |
| ## | 103 | 103 | honda | civic | 1.6 | 1999 | 4 | manual(m5) | f | 23 |
| ## | 104 | 104 | honda | civic | 1.6 | 1999 | 4 | auto(14) | f | 24 |
| ## | 105 | 105 | honda | civic | 1.8 | 2008 | 4 | manual(m5) | f | 26 |
| ## | 106 | 106 | honda | civic | 1.8 | 2008 | 4 | auto(15) | f | 25 |
| ## | 107 | 107 | honda | civic | 1.8 | 2008 | 4 | auto(15) | f | 24 |
| ## | 108 | 108 | honda | civic | 2.0 | 2008 | 4 | manual(m6) | f | 21 |
| ## | 109 | 109 | hyundai | sonata | 2.4 | 1999 | 4 | auto(14) | f | 18 |
| ## | 110 | 110 | hyundai | sonata | 2.4 | 1999 | 4 | | f | 18 |
| ## | 111 | 111 | hyundai | sonata | 2.4 | 2008 | 4 | auto(14) | f | 21 |
| ## | 112 | 112 | hyundai | sonata | 2.4 | 2008 | 4 | manual(m5) | f | 21 |
| ## | 113 | 113 | hyundai | sonata | 2.5 | 1999 | 6 | auto(14) | f | 18 |
| ## | 114 | 114 | hyundai | sonata | 2.5 | 1999 | 6 | | f | 18 |
| ## | 115 | 115 | hyundai | sonata | 3.3 | 2008 | 6 | auto(15) | f | 19 |
| ## | 116 | 116 | hyundai | tiburon | 2.0 | 1999 | 4 | auto(14) | f | 19 |
| ## | 117 | 117 | hyundai | tiburon | 2.0 | 1999 | 4 | manual(m5) | f | 19 |
| ## | 118 | 118 | hyundai | tiburon | 2.0 | 2008 | 4 | manual(m5) | f | 20 |
| ## | 119 | 119 | hyundai | tiburon | 2.0 | 2008 | 4 | auto(14) | f | 20 |
| ## | 120 | 120 | hyundai | tiburon | 2.7 | 2008 | 6 | auto(14) | f | 17 |
| ## | 121 | 121 | hyundai | tiburon | 2.7 | 2008 | 6 | manual(m6) | f | 16 |
| ## | 122 | 122 | hyundai | tiburon | 2.7 | 2008 | 6 | manual(m5) | f | 17 |
| ## | 123 | 123 | jeep | grand cherokee 4wd | 3.0 | 2008 | 6 | auto(15) | 4 | 17 |
| ## | 124 | 124 | jeep | grand cherokee 4wd | 3.7 | 2008 | 6 | auto(15) | 4 | 15 |
| ## | 125 | 125 | jeep | grand cherokee 4wd | 4.0 | 1999 | 6 | auto(14) | 4 | 15 |
| ## | 126 | 126 | jeep | grand cherokee 4wd | 4.7 | 1999 | 8 | auto(14) | 4 | 14 |
| ## | 127 | 127 | jeep | grand cherokee 4wd | 4.7 | 2008 | 8 | auto(15) | 4 | 9 |
| ## | 128 | 128 | jeep | grand cherokee 4wd | | 2008 | 8 | auto(15) | 4 | 14 |
| ## | 129 | 129 | jeep | grand cherokee 4wd | | 2008 | 8 | auto(15) | 4 | 13 |
| ## | 130 | 130 | jeep | grand cherokee 4wd | | 2008 | 8 | auto(15) | 4 | 11 |
| ## | 131 | | land rover | range rover | | 1999 | 8 | auto(14) | 4 | 11 |
| ## | 132 | | land rover | range rover | | 2008 | 8 | auto(s6) | 4 | 12 |
| | 133 | | land rover | range rover | | 2008 | 8 | auto(s6) | 4 | 12 |
| | 134 | | land rover | range rover | | 1999 | 8 | auto(14) | 4 | 11 |
| | 135 | | lincoln | navigator 2wd | | 1999 | 8 | auto(14) | r | 11 |
| | 136 | | lincoln | navigator 2wd | | 1999 | 8 | auto(14) | r | 11 |
| | 137 | | lincoln | navigator 2wd | | 2008 | 8 | auto(16) | r | 12 |
| ## | 138 | | mercury | mountaineer 4wd | | 1999 | 6 | auto(15) | 4 | 14 |
| | 139 | | mercury | mountaineer 4wd | | 2008 | 6 | auto(15) | 4 | 13 |
| | 140 | | mercury | mountaineer 4wd | | 2008 | 8 | auto(16) | 4 | 13 |
| | 141 | | mercury | mountaineer 4wd | | 1999 | 8 | auto(14) | 4 | 13 |
| | 142 | | nissan | altima | | 1999 | | manual(m5) | f | 21 |
| ## | 143 | 143 | nissan | altima | 2.4 | 1999 | 4 | auto(14) | f | 19 |

| ## | 144 | | nissan | altima | | 2008 | 4 | auto(av) | f | 23 |
|----|-----|-----|---------|----------------|-----|------|---|------------|---|----|
| ## | 145 | | nissan | altima | | 2008 | 4 | manual(m6) | f | 23 |
| ## | 146 | | nissan | altima | | 2008 | 6 | manual(m6) | f | 19 |
| ## | 147 | | nissan | altima | | 2008 | 6 | auto(av) | f | 19 |
| ## | 148 | | nissan | maxima | | 1999 | 6 | auto(14) | f | 18 |
| ## | 149 | 149 | nissan | maxima | | 1999 | 6 | manual(m5) | f | 19 |
| ## | 150 | 150 | nissan | maxima | | 2008 | 6 | auto(av) | f | 19 |
| ## | 151 | | nissan | pathfinder 4wd | | 1999 | 6 | auto(14) | 4 | 14 |
| ## | 152 | | nissan | pathfinder 4wd | | 1999 | 6 | manual(m5) | 4 | 15 |
| ## | 153 | | nissan | pathfinder 4wd | | 2008 | 6 | auto(15) | 4 | 14 |
| ## | 154 | 154 | nissan | pathfinder 4wd | 5.6 | 2008 | 8 | auto(s5) | 4 | 12 |
| ## | 155 | 155 | pontiac | grand prix | 3.1 | 1999 | 6 | auto(14) | f | 18 |
| ## | 156 | 156 | pontiac | grand prix | 3.8 | 1999 | 6 | auto(14) | f | 16 |
| ## | 157 | 157 | pontiac | grand prix | 3.8 | 1999 | 6 | auto(14) | f | 17 |
| ## | 158 | 158 | pontiac | grand prix | 3.8 | 2008 | 6 | auto(14) | f | 18 |
| ## | 159 | 159 | pontiac | grand prix | 5.3 | 2008 | 8 | auto(s4) | f | 16 |
| ## | 160 | 160 | subaru | forester awd | 2.5 | 1999 | 4 | manual(m5) | 4 | 18 |
| ## | 161 | 161 | subaru | forester awd | 2.5 | 1999 | 4 | auto(14) | 4 | 18 |
| ## | 162 | 162 | subaru | forester awd | 2.5 | 2008 | 4 | manual(m5) | 4 | 20 |
| ## | 163 | 163 | subaru | forester awd | 2.5 | 2008 | 4 | manual(m5) | 4 | 19 |
| ## | 164 | 164 | subaru | forester awd | 2.5 | 2008 | 4 | auto(14) | 4 | 20 |
| ## | 165 | 165 | subaru | forester awd | 2.5 | 2008 | 4 | auto(14) | 4 | 18 |
| ## | 166 | 166 | subaru | impreza awd | 2.2 | 1999 | 4 | auto(14) | 4 | 21 |
| ## | 167 | 167 | subaru | impreza awd | 2.2 | 1999 | 4 | manual(m5) | 4 | 19 |
| ## | 168 | 168 | subaru | impreza awd | 2.5 | 1999 | 4 | manual(m5) | 4 | 19 |
| ## | 169 | 169 | subaru | impreza awd | 2.5 | 1999 | 4 | auto(14) | 4 | 19 |
| ## | 170 | 170 | subaru | impreza awd | 2.5 | 2008 | 4 | auto(s4) | 4 | 20 |
| ## | 171 | 171 | subaru | impreza awd | 2.5 | 2008 | 4 | auto(s4) | 4 | 20 |
| ## | 172 | 172 | subaru | impreza awd | 2.5 | 2008 | 4 | manual(m5) | 4 | 19 |
| ## | 173 | 173 | subaru | impreza awd | 2.5 | 2008 | 4 | manual(m5) | 4 | 20 |
| ## | 174 | 174 | toyota | 4runner 4wd | 2.7 | 1999 | 4 | manual(m5) | 4 | 15 |
| ## | 175 | 175 | toyota | 4runner 4wd | 2.7 | 1999 | 4 | auto(14) | 4 | 16 |
| ## | 176 | 176 | toyota | 4runner 4wd | 3.4 | 1999 | 6 | auto(14) | 4 | 15 |
| ## | 177 | 177 | toyota | 4runner 4wd | 3.4 | 1999 | 6 | manual(m5) | 4 | 15 |
| ## | 178 | 178 | toyota | 4runner 4wd | 4.0 | 2008 | 6 | auto(15) | 4 | 16 |
| ## | 179 | 179 | toyota | 4runner 4wd | 4.7 | 2008 | 8 | auto(15) | 4 | 14 |
| ## | 180 | 180 | toyota | camry | 2.2 | 1999 | 4 | manual(m5) | f | 21 |
| ## | 181 | 181 | toyota | camry | 2.2 | 1999 | 4 | auto(14) | f | 21 |
| ## | 182 | 182 | toyota | camry | 2.4 | 2008 | 4 | manual(m5) | f | 21 |
| ## | 183 | 183 | toyota | camry | 2.4 | 2008 | 4 | auto(15) | f | 21 |
| ## | 184 | 184 | toyota | camry | | 1999 | 6 | auto(14) | f | 18 |
| ## | 185 | 185 | toyota | camry | | 1999 | 6 | manual(m5) | f | 18 |
| ## | 186 | 186 | toyota | camry | 3.5 | 2008 | 6 | auto(s6) | f | 19 |
| ## | 187 | 187 | toyota | camry solara | | 1999 | 4 | auto(14) | f | 21 |
| ## | 188 | 188 | toyota | camry solara | | 1999 | 4 | manual(m5) | f | 21 |
| ## | 189 | 189 | toyota | camry solara | 2.4 | 2008 | 4 | manual(m5) | f | 21 |
| ## | 190 | 190 | toyota | camry solara | | 2008 | 4 | auto(s5) | f | 22 |
| ## | 191 | 191 | toyota | camry solara | | 1999 | 6 | auto(14) | f | 18 |
| ## | 192 | 192 | toyota | camry solara | 3.0 | 1999 | 6 | manual(m5) | f | 18 |
| ## | 193 | 193 | toyota | camry solara | 3.3 | 2008 | 6 | auto(s5) | f | 18 |
| ## | 194 | 194 | toyota | corolla | 1.8 | 1999 | 4 | auto(13) | f | 24 |
| ## | 195 | 195 | toyota | corolla | 1.8 | 1999 | 4 | auto(14) | f | 24 |
| ## | 196 | 196 | toyota | corolla | 1.8 | 1999 | 4 | manual(m5) | f | 26 |
| ## | 197 | 197 | toyota | corolla | 1.8 | 2008 | 4 | manual(m5) | f | 28 |
| | | | | | | | | | | |

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## 198 198
                  tovota
                                           corolla
                                                      1.8 2008
                                                                  4
                                                                       auto(14)
                                                                                      26
## 199 199
                  toyota land cruiser wagon 4wd
                                                                                   4
                                                                                      11
                                                      4.7 1999
                                                                  8
                                                                       auto(14)
                                                                       auto(s6)
                                                                                      13
## 200 200
                  toyota land cruiser wagon 4wd
                                                      5.7 2008
## 201 201
                                                                                      15
                                toyota tacoma 4wd
                                                      2.7 1999
                                                                  4 manual(m5)
                  toyota
## 202 202
                  toyota
                                toyota tacoma 4wd
                                                      2.7 1999
                                                                       auto(14)
                                                                                      16
## 203 203
                                                      2.7 2008
                                                                                   4
                                                                                      17
                  toyota
                                toyota tacoma 4wd
                                                                  4 manual(m5)
## 204 204
                                                                                      15
                  toyota
                                toyota tacoma 4wd
                                                      3.4 1999
                                                                    manual(m5)
## 205 205
                  toyota
                                toyota tacoma 4wd
                                                      3.4 1999
                                                                  6
                                                                       auto(14)
                                                                                   4
                                                                                      15
## 206 206
                  toyota
                                toyota tacoma 4wd
                                                      4.0 2008
                                                                  6
                                                                    manual(m6)
                                                                                      15
## 207 207
                                                                                      16
                  toyota
                                toyota tacoma 4wd
                                                      4.0 2008
                                                                       auto(15)
## 208 208
                                               gti
                                                      2.0 1999
                                                                    manual(m5)
                                                                                   f
                                                                                      21
              volkswagen
## 209 209
                                                                                      19
                                                      2.0 1999
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              volkswagen
                                               gti
                                                                       auto(14)
## 210 210
              volkswagen
                                                      2.0 2008
                                                                    manual(m6)
                                                                                   f
                                                                                      21
                                               gti
## 211 211
              volkswagen
                                                                                   f
                                                                                      22
                                               gti
                                                      2.0 2008
                                                                       auto(s6)
## 212 212
                                                      2.8 1999
                                                                    manual(m5)
                                                                                   f
                                                                                      17
              volkswagen
                                               gti
## 213 213
              volkswagen
                                             jetta
                                                      1.9
                                                          1999
                                                                    manual(m5)
                                                                                   f
                                                                                      33
## 214 214
                                                                                   f
                                                                                      21
              volkswagen
                                                      2.0 1999
                                                                    manual(m5)
                                             jetta
                                                                                      19
## 215 215
              volkswagen
                                                      2.0 1999
                                                                       auto(14)
                                             jetta
## 216 216
                                                      2.0 2008
                                                                                      22
              volkswagen
                                                                       auto(s6)
                                                                                   f
                                             jetta
## 217 217
              volkswagen
                                             jetta
                                                      2.0 2008
                                                                  4 manual(m6)
                                                                                   f
                                                                                      21
## 218 218
              volkswagen
                                             jetta
                                                      2.5 2008
                                                                       auto(s6)
                                                                                   f
                                                                                      21
## 219 219
              volkswagen
                                                      2.5 2008
                                                                    manual(m5)
                                                                                      21
                                             jetta
## 220 220
                                                                                   f
                                                                                      16
              volkswagen
                                             jetta
                                                      2.8 1999
                                                                  6
                                                                       auto(14)
## 221 221
                                                      2.8 1999
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                                                                                      17
              volkswagen
                                             jetta
                                                                  6 manual(m5)
                                                                                      35
## 222 222
              volkswagen
                                       new beetle
                                                      1.9 1999
                                                                    manual(m5)
                                                                                   f
## 223 223
              volkswagen
                                       new beetle
                                                      1.9 1999
                                                                       auto(14)
                                                                                   f
                                                                                      29
## 224 224
              volkswagen
                                                      2.0
                                                          1999
                                                                                   f
                                                                                      21
                                        new beetle
                                                                    manual(m5)
## 225 225
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              volkswagen
                                        new beetle
                                                      2.0
                                                          1999
                                                                       auto(14)
## 226 226
                                                                                      20
                                                      2.5 2008
                                                                                   f
              volkswagen
                                        new beetle
                                                                    manual(m5)
## 227 227
              volkswagen
                                        new beetle
                                                      2.5 2008
                                                                  5
                                                                       auto(s6)
                                                                                   f
                                                                                      20
## 228 228
              volkswagen
                                            passat
                                                      1.8 1999
                                                                  4
                                                                    manual(m5)
                                                                                   f
                                                                                      21
## 229 229
              volkswagen
                                                      1.8 1999
                                                                       auto(15)
                                                                                   f
                                                                                      18
                                            passat
## 230 230
                                                                                      19
              volkswagen
                                                      2.0 2008
                                                                       auto(s6)
                                            passat
## 231 231
                                                      2.0 2008
                                                                                      21
              volkswagen
                                                                    manual(m6)
                                                                                   f
                                            passat
## 232 232
              volkswagen
                                                      2.8
                                                          1999
                                                                       auto(15)
                                                                                   f
                                                                                      16
                                            passat
##
  233 233
                                                                                   f
                                                                                      18
              volkswagen
                                            passat
                                                      2.8 1999
                                                                  6 manual(m5)
##
   234 234
              volkswagen
                                            passat
                                                      3.6 2008
                                                                       auto(s6)
                                                                                   f
                                                                                      17
##
       hwy fl
                     class
## 1
        29
                  compact
##
   2
        29
                  compact
##
             p
                  compact
##
   4
        30
                  compact
##
   5
        26
             p
                  compact
##
  6
        26
                   compact
## 7
        27
                  compact
             p
## 8
        26
             р
                   compact
##
  9
        25
                  compact
             p
## 10
        28
             p
                   compact
##
   11
        27
                  compact
             p
        25
##
   12
                  compact
##
   13
        25
                   compact
## 14
        25
             p
                  compact
## 15
        25
                  compact
             p
## 16
        24
                  midsize
             р
```

| ## | 17 | 25 | р | midsize |
|----|----|----------|---|---------|
| ## | 18 | 23 | р | midsize |
| ## | 19 | 20 | r | suv |
| ## | 20 | 15 | е | suv |
| ## | 21 | 20 | r | suv |
| ## | 22 | 17 | r | suv |
| ## | 23 | 17 | r | suv |
| ## | 24 | 26 | р | 2seater |
| ## | 25 | 23 | p | 2seater |
| ## | 26 | 26 | p | 2seater |
| ## | 27 | 25 | p | 2seater |
| ## | 28 | 24 | p | 2seater |
| ## | 29 | 19 | r | suv |
| ## | 30 | 14 | е | suv |
| ## | 31 | 15 | r | suv |
| ## | 32 | 17 | d | suv |
| ## | 33 | 27 | r | midsize |
| ## | 34 | 30 | r | midsize |
| ## | 35 | 26 | r | midsize |
| ## | 36 | 29 | r | midsize |
| ## | 37 | 26 | r | midsize |
| ## | 38 | 24 | r | minivan |
| ## | 39 | 24 | r | minivan |
| ## | 40 | 22 | r | minivan |
| ## | 41 | 22 | r | minivan |
| ## | 42 | 24 | r | minivan |
| ## | 43 | 24 | r | minivan |
| ## | 44 | 17 | e | minivan |
| ## | 45 | 22 | | minivan |
| ## | 46 | 21 | r | minivan |
| ## | 47 | 23 | r | minivan |
| ## | 48 | 23 | r | minivan |
| ## | 49 | 19 | r | |
| ## | | | r | pickup |
| | 50 | 18 17 | r | pickup |
| ## | 51 | | r | pickup |
| ## | 52 | 17 | r | pickup |
| ## | 53 | 19 | r | pickup |
| ## | 54 | 19 | r | pickup |
| ## | 55 | 12 | е | pickup |
| ## | 56 | 17 | r | pickup |
| ## | 57 | 15 | r | pickup |
| ## | 58 | 17 | r | suv |
| ## | 59 | 17 | r | suv |
| ## | 60 | 12 | е | suv |
| ## | 61 | 17 | r | suv |
| ## | 62 | 16 | r | suv |
| ## | 63 | 18 | r | suv |
| ## | 64 | 15 | r | suv |
| ## | 65 | 16 | r | pickup |
| ## | 66 | 12 | е | pickup |
| ## | 67 | 17 | r | pickup |
| ## | 68 | 17 | r | pickup |
| ## | 69 | 16 | r | pickup |
| ## | 70 | 12 | е | pickup |
| | | | | |

```
## 71
        15
            r
                   pickup
## 72
        16
             r
                   pickup
##
  73
        17
             r
                   pickup
##
  74
        15
             r
                   pickup
##
   75
        17
                       suv
##
   76
        17
                       suv
##
   77
        18
                       suv
## 78
        17
                       suv
##
   79
        19
             r
                       suv
##
  80
        17
                       suv
##
   81
        19
             r
                       suv
##
  82
        19
                       suv
##
   83
        17
             r
                       suv
##
  84
        17
                   pickup
##
  85
        17
                   pickup
             r
## 86
        16
             r
                   pickup
##
  87
        16
                   pickup
##
   88
        17
                   pickup
##
   89
        15
                   pickup
## 90
        17
                   pickup
##
  91
        26
             r subcompact
## 92
             r subcompact
## 93
             r subcompact
        26
##
  94
        24
             r subcompact
## 95
        21
             r subcompact
##
  96
            r subcompact
## 97
        23
            r subcompact
##
   98
        22
             r subcompact
        20
## 99
             p subcompact
## 100
        33
             r subcompact
        32
## 101
             r subcompact
##
  102
        32
             r subcompact
##
  103
             p subcompact
## 104
        32
            r subcompact
   105
        34
             r subcompact
##
        36
## 106
             r subcompact
## 107
        36
             c subcompact
## 108
        29
             p subcompact
        26
## 109
             r
                  midsize
## 110
        27
                  midsize
             r
## 111
                  midsize
## 112
        31
                  midsize
## 113
        26
                  midsize
## 114
        26
                  midsize
## 115
        28
             r
                  midsize
## 116
        26
             r subcompact
## 117
        29
             r subcompact
## 118
        28
             r subcompact
## 119
        27
             r subcompact
## 120
        24
             r subcompact
        24
## 121
             r subcompact
        24
## 122
             r subcompact
## 123
        22
             d
                       suv
## 124
        19
                       suv
```

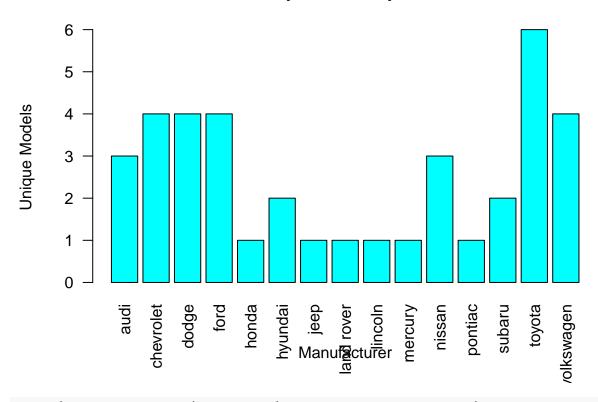
```
## 125
        20
            r
                       suv
## 126
        17
             r
                       suv
## 127
        12
             е
                       suv
## 128
        19
             r
                       suv
## 129
        18
             r
                       suv
## 130
        14
                       suv
## 131
        15
                       suv
             p
## 132
        18
             r
                       suv
## 133
        18
             r
                       suv
## 134
        15
             p
                       suv
## 135
        17
             r
                       suv
## 136
        16
             p
                       suv
## 137
        18
            r
                       suv
## 138
        17
                       suv
## 139
        19
                       suv
             r
## 140
        19
             r
                       suv
## 141
        17
                       suv
             r
## 142
        29
             r
                  compact
## 143
        27
                  compact
             r
## 144
        31
                  midsize
## 145
        32
             r
                  midsize
## 146
        27
                  midsize
## 147
        26
                  midsize
             р
        26
## 148
             r
                  midsize
## 149
        25
                  midsize
            r
## 150
        25
             p
                  midsize
## 151
        17
                       suv
## 152
        17
             r
                       suv
        20
## 153
                       suv
## 154
        18
                       suv
             p
## 155
        26
             r
                  midsize
## 156
        26
             p
                  midsize
## 157
        27
                  midsize
## 158
        28
                  midsize
            r
## 159
        25
             p
                  midsize
## 160
        25
                       suv
             r
## 161
        24
                       suv
## 162
        27
             r
                       suv
## 163
        25
             р
                       suv
## 164
        26
             r
                       suv
        23
## 165
             р
                       suv
        26
## 166
             r subcompact
##
  167
        26
             r subcompact
## 168
        26
             r subcompact
## 169
        26
             r subcompact
## 170
        25
                  compact
             р
## 171
        27
                  compact
            r
## 172
        25
             p
                  compact
## 173
        27
            r
                  compact
## 174
        20
                       suv
## 175
        20
            r
                       suv
## 176
        19
                       suv
## 177
        17
            r
                       suv
## 178
        20
                       suv
```

```
## 179
         17
             r
                       suv
## 180
        29
             r
                  midsize
## 181
                  midsize
         27
## 182
        31
                  midsize
             r
##
   183
        31
             r
                  midsize
## 184
        26
                  midsize
             r
## 185
         26
                  midsize
             r
## 186
        28
                  midsize
             r
## 187
         27
             r
                  compact
## 188
        29
                   compact
             r
   189
         31
            r
                   compact
## 190
        31
                   compact
##
   191
         26
                   compact
            r
         26
## 192
                   compact
## 193
        27
                   compact
             r
## 194
         30
             r
                   compact
## 195
        33
                   compact
             r
##
   196
         35
             r
                   compact
## 197
        37
                  compact
             r
## 198
        35
                   compact
##
   199
         15
             r
                       suv
## 200
         18
                       suv
## 201
        20
                   pickup
             r
        20
## 202
             r
                   pickup
## 203
        22
             r
                   pickup
## 204
        17
             r
                   pickup
## 205
        19
                   pickup
##
   206
        18
                   pickup
             r
         20
## 207
                   pickup
## 208
         29
             r
                   compact
## 209
         26
                   compact
## 210
        29
             p
                   compact
##
   211
         29
                   compact
             p
## 212
        24
                   compact
             r
## 213
        44
                   compact
## 214
        29
                   compact
             r
## 215
        26
                   compact
## 216
        29
                   compact
             p
## 217
         29
             p
                   compact
## 218
        29
                   compact
             r
## 219
         29
             r
                   compact
## 220
        23
             r
                   compact
## 221
         24
                   compact
             r
## 222
         44
             d subcompact
## 223
         41
             d subcompact
## 224
         29
             r subcompact
## 225
        26
             r subcompact
## 226
         28
             r subcompact
   227
        29
##
             r subcompact
##
   228
        29
                  midsize
             р
##
   229
        29
                  midsize
             р
## 230
        28
                  midsize
             р
## 231
        29
             p
                  midsize
## 232
        26
                  midsize
             р
```

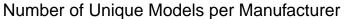
```
## 233 26 p
                 midsize
## 234 26 p
                 midsize
#b. Which variables from mpg dataset are categorical?
#The variables that are categorical includes Manufacturer, Model, Trans, Class, Fl and Drv.
#c. Which are continuous variables?
#The continuous variables includes displ, year, cyl, and hwy.
#2. Which manufacturer has the most models in this data set? Which model has the most variations? Show
#The manufacturer that has the most model is "toyota" and the model that has the most variation is the
#a Group the manufacturers and find the unique models. Show your codes and result.
library(ggplot2)
##
## Attaching package: 'ggplot2'
## The following object is masked _by_ '.GlobalEnv':
##
##
       mpg
library(dplyr)
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
##
unique models <- mpg %>%
group_by(manufacturer) %>%
summarise(unique_models = n_distinct(model))
unique_models
## # A tibble: 15 x 2
##
     manufacturer unique_models
##
      <chr>>
                           <int>
## 1 audi
                               3
## 2 chevrolet
                               4
## 3 dodge
                               4
## 4 ford
## 5 honda
                               1
## 6 hyundai
                               2
## 7 jeep
                               1
```

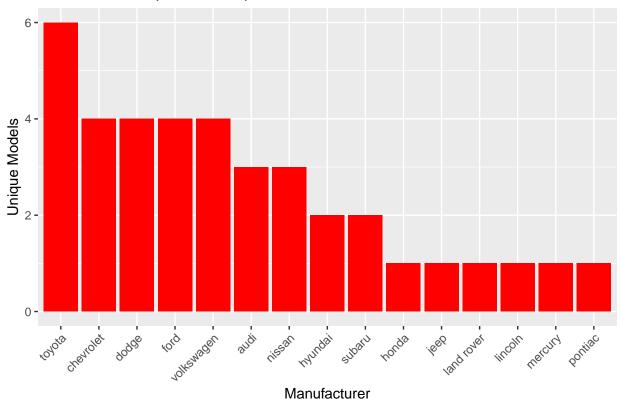
```
8 land rover
                                1
##
  9 lincoln
                                1
## 10 mercury
                                1
                                3
## 11 nissan
## 12 pontiac
                                1
## 13 subaru
                                2
## 14 toyota
                                6
## 15 volkswagen
#b. Graph the result by using plot() and ggplot(). Write the codes and its result.
manufacturers <- unique_models$manufacturer</pre>
unique_counts <- unique_models$unique_models</pre>
barplot(unique_counts,
        names.arg = manufacturers,
        main = "Number of Unique Models per Manufacturer",
        xlab = "Manufacturer",
        ylab = "Unique Models",
        las = 2,
      col = "cyan")
```

Number of Unique Models per Manufacturer



```
ggplot(unique_models, aes(x = reorder(manufacturer, -unique_models), y = unique_models)) +
  geom_bar(stat = "identity", fill = "red") +
  labs(title = "Number of Unique Models per Manufacturer", x = "Manufacturer", y = "Unique Models") +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



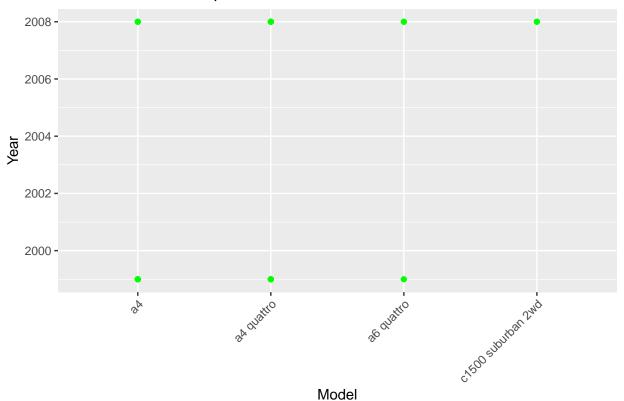


```
#2. Same dataset will be used. You are going to show the relationship of the modeland the manufacturer.
#a. What does ggplot(mpg, aes(model, manufacturer)) + geom_point() show?
#The code ggplot(mpg, aes(model, manufacturer)) + geom_point() creates a scatter plot showing each car .
#b. For you, is it useful? If not, how could you modify the data to make it more informative?
#No, it's not very useful. Grouping by manufacturer and model, then plotting model counts with point si
#3. Plot the model and the year using ggplot(). Use only the top 20 observations. Write the codes and i
library(ggplot2)
library(dplyr)
Top_20 <- mpg[1:20,]
ggplot(Top_20, aes(x = model, y = year)) +
geom_point(color = "green") +</pre>
```

labs(title = "Model vs Year for Top 20 Observations", x = "Model", y = "Year") +

theme(axis.text.x = element_text(angle = 45, hjust = 1))

Model vs Year for Top 20 Observations

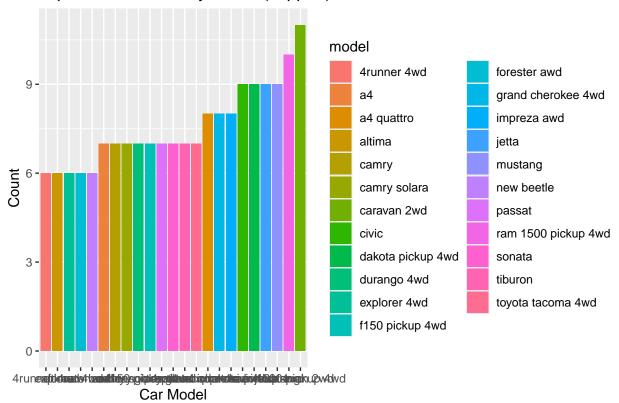


```
#4. Using the pipe (%>%), group the model and get the number of cars per model. Show codes and its resu
model_count <- mpg %>%
    group_by(model) %>%
    summarise(car_count = n())
model_count
```

```
## # A tibble: 38 x 2
     model
##
                         car_count
      <chr>
##
                             <int>
##
   1 4runner 4wd
                                 6
## 2 a4
                                 7
                                 8
## 3 a4 quattro
                                 3
## 4 a6 quattro
## 5 altima
                                 6
## 6 c1500 suburban 2wd
                                 5
## 7 camry
                                 7
                                 7
## 8 camry solara
## 9 caravan 2wd
                                11
                                 9
## 10 civic
## # i 28 more rows
```

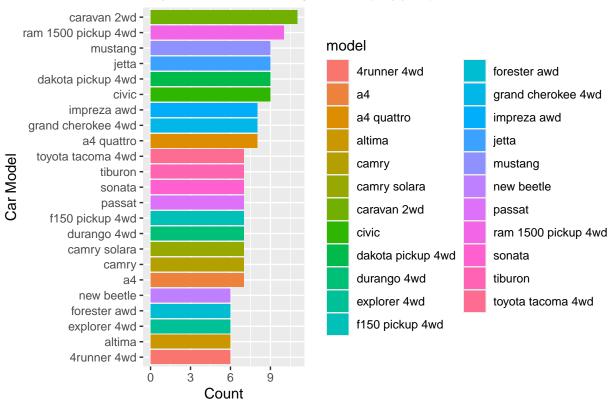
#a. Plot using geom_bar() using the top 20 observations only. The graphs should have a title, labels an Top_20_DATA <- model_count %>% top_n(20, car_count)

Top 20 Car Models by Count (Flipped)

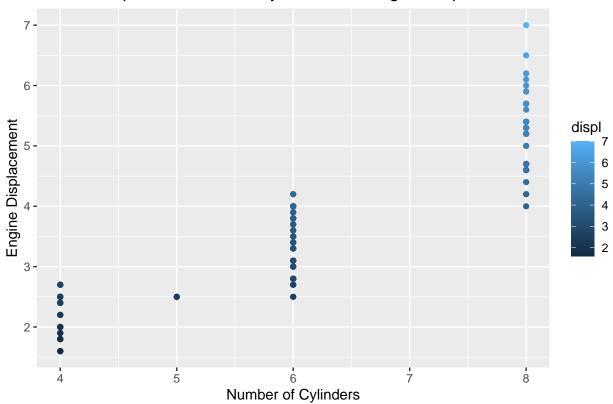


```
#b. Plot using the geom_bar() + coord_flip() just like what is shown below. Show codes and its result.
ggplot(Top_20_DATA, aes(x = reorder(model, car_count), y = car_count, fill = model)) +
    geom_bar(stat = "identity") +
    labs(title = "Top 20 Car Models by Count (Flipped)",
        x = "Car Model",
        y = "Count") +coord_flip()
```

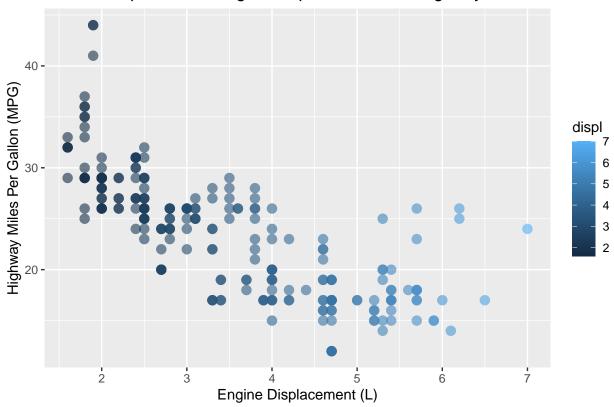




Relationship between No. of Cylinders and Engine Displacement



Relationship between Engine Displacement and Highway MPG



#6. Import the traffic.csv onto your R environment.

traffic_data <- read.csv("C:/RStudio/RWorksheet4/traffic.csv", header = TRUE, sep = ",")

traffic_data

| ## | | | ${\tt DateTime}$ | ${\tt Junction}$ | Vehicles | ID |
|----|----|------------|------------------|------------------|----------|-------------|
| ## | 1 | 2015-11-01 | 00:00:00 | 1 | 15 | 20151101001 |
| ## | 2 | 2015-11-01 | 01:00:00 | 1 | 13 | 20151101011 |
| ## | 3 | 2015-11-01 | 02:00:00 | 1 | 10 | 20151101021 |
| ## | 4 | 2015-11-01 | 03:00:00 | 1 | 7 | 20151101031 |
| ## | 5 | 2015-11-01 | 04:00:00 | 1 | 9 | 20151101041 |
| ## | 6 | 2015-11-01 | 05:00:00 | 1 | 6 | 20151101051 |
| ## | 7 | 2015-11-01 | 06:00:00 | 1 | 9 | 20151101061 |
| ## | 8 | 2015-11-01 | 07:00:00 | 1 | 8 | 20151101071 |
| ## | 9 | 2015-11-01 | 08:00:00 | 1 | 11 | 20151101081 |
| ## | 10 | 2015-11-01 | 09:00:00 | 1 | 12 | 20151101091 |
| ## | 11 | 2015-11-01 | 10:00:00 | 1 | 15 | 20151101101 |
| ## | 12 | 2015-11-01 | 11:00:00 | 1 | 17 | 20151101111 |
| ## | 13 | 2015-11-01 | 12:00:00 | 1 | 16 | 20151101121 |
| ## | 14 | 2015-11-01 | 13:00:00 | 1 | 15 | 20151101131 |
| ## | 15 | 2015-11-01 | 14:00:00 | 1 | 16 | 20151101141 |
| ## | 16 | 2015-11-01 | 15:00:00 | 1 | 12 | 20151101151 |
| ## | 17 | 2015-11-01 | 16:00:00 | 1 | 12 | 20151101161 |
| ## | 18 | 2015-11-01 | 17:00:00 | 1 | 16 | 20151101171 |
| ## | 19 | 2015-11-01 | 18:00:00 | 1 | 17 | 20151101181 |
| ## | 20 | 2015-11-01 | 19:00:00 | 1 | 20 | 20151101191 |
| ## | 21 | 2015-11-01 | 20:00:00 | 1 | 17 | 20151101201 |

| ## | 22 | 2015-11-01 | 21:00:00 | 1 | 19 | 20151101211 |
|----|----|------------|----------|---|----|-------------|
| ## | 23 | 2015-11-01 | 22:00:00 | 1 | 20 | 20151101221 |
| ## | 24 | 2015-11-01 | 23:00:00 | 1 | 15 | 20151101231 |
| ## | 25 | 2015-11-02 | 00:00:00 | 1 | 14 | 20151102001 |
| ## | 26 | 2015-11-02 | 01:00:00 | 1 | 12 | 20151102011 |
| ## | 27 | 2015-11-02 | 02:00:00 | 1 | 14 | 20151102021 |
| ## | 28 | 2015-11-02 | 03:00:00 | 1 | 12 | 20151102031 |
| ## | 29 | 2015-11-02 | 04:00:00 | 1 | 12 | 20151102041 |
| ## | 30 | 2015-11-02 | 05:00:00 | 1 | 11 | 20151102051 |
| ## | 31 | 2015-11-02 | 06:00:00 | 1 | 13 | 20151102061 |
| ## | 32 | 2015-11-02 | 07:00:00 | 1 | 14 | 20151102071 |
| ## | 33 | 2015-11-02 | 08:00:00 | 1 | 12 | 20151102081 |
| ## | 34 | 2015-11-02 | 09:00:00 | 1 | 22 | 20151102091 |
| ## | 35 | 2015-11-02 | 10:00:00 | 1 | 32 | 20151102101 |
| ## | 36 | 2015-11-02 | 11:00:00 | 1 | 31 | 20151102111 |
| ## | 37 | 2015-11-02 | 12:00:00 | 1 | 35 | 20151102121 |
| ## | 38 | 2015-11-02 | 13:00:00 | 1 | 26 | 20151102131 |
| ## | 39 | 2015-11-02 | 14:00:00 | 1 | 34 | 20151102141 |
| ## | 40 | 2015-11-02 | 15:00:00 | 1 | 30 | 20151102151 |
| ## | 41 | | 16:00:00 | 1 | 27 | 20151102161 |
| ## | 42 | | 17:00:00 | 1 | 27 | 20151102171 |
| | 43 | | 18:00:00 | 1 | 24 | 20151102181 |
| | 44 | | 19:00:00 | 1 | 26 | 20151102191 |
| | 45 | 2015-11-02 | | 1 | 29 | 20151102101 |
| | 46 | 2015-11-02 | | 1 | 32 | 20151102201 |
| ## | 47 | 2015-11-02 | | 1 | 30 | 20151102211 |
| ## | 48 | 2015-11-02 | | 1 | 27 | 20151102221 |
| ## | 49 | 2015-11-03 | | 1 | 21 | 20151102201 |
| ## | 50 | 2015-11-03 | | 1 | | 20151103001 |
| ## | 51 | 2015-11-03 | | 1 | 19 | 20151103011 |
| ## | 52 | 2015-11-03 | | 1 | | 20151103021 |
| ## | 53 | 2015-11-03 | | 1 | 11 | 20151103031 |
| ## | 54 | 2015-11-03 | | 1 | 11 | 20151103041 |
| ## | 55 | 2015-11-03 | | 1 | 11 | 20151103051 |
| ## | 56 | 2015 11 03 | | 1 | | 20151103001 |
| ## | 57 | 2015 11 03 | | 1 | | 20151103071 |
| ## | 58 | 2015 11 03 | | 1 | | 20151103081 |
| | 59 | 2015 11 03 | | 1 | | 20151103091 |
| | 60 | 2015 11 03 | | 1 | | 20151103101 |
| | 61 | 2015 11 03 | | 1 | | 20151103111 |
| | 62 | 2015-11-03 | | 1 | | 20151103121 |
| | 63 | 2015-11-03 | | 1 | | 20151103131 |
| | 64 | 2015-11-03 | | 1 | | |
| | | | | 1 | | 20151103151 |
| | 65 | 2015-11-03 | | | | 20151103161 |
| | 66 | 2015-11-03 | | 1 | | 20151103171 |
| | 67 | 2015-11-03 | | 1 | | 20151103181 |
| | 68 | 2015-11-03 | | 1 | | 20151103191 |
| | 69 | 2015-11-03 | | 1 | | 20151103201 |
| | 70 | 2015-11-03 | | 1 | | 20151103211 |
| | 71 | 2015-11-03 | | 1 | | 20151103221 |
| | 72 | 2015-11-03 | | 1 | | 20151103231 |
| | 73 | 2015-11-04 | | 1 | | 20151104001 |
| | 74 | 2015-11-04 | | 1 | | 20151104011 |
| ## | 75 | 2015-11-04 | 02:00:00 | 1 | 13 | 20151104021 |
| | | | | | | |

| ## | 76 | 2015-11-04 | 03:00:00 | 1 | 13 | 20151104031 |
|----|-----|------------|----------|---|----|-------------|
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## 24763 2016-12-28 18:00:00
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| ## | 24828 | 2016-12-31 | 11:00:00 | 2 | 10 | 20161231112 |
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| ## | 24853 | 2017-01-01 | 12:00:00 | 2 | 6 | 20170101122 |
| ## | 24854 | 2017-01-01 | 13:00:00 | 2 | 6 | 20170101132 |
| ## | 24855 | 2017-01-01 | 14:00:00 | 2 | 7 | 20170101142 |
| ## | | 2017-01-01 | | 2 | 7 | 20170101152 |
| ## | | 2017-01-01 | | 2 | | 20170101162 |
| ## | | 2017-01-01 | | 2 | | 20170101102 |
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## 24999 2017-01-07 14:00:00
                                            13 20170107142
## [ reached 'max' / getOption("max.print") -- omitted 23121 rows ]
#a. How many numbers of observation does it have? What are the variables of the traffic dataset the Sho
str(traffic_data)
                    48120 obs. of 4 variables:
## 'data.frame':
## $ DateTime: chr "2015-11-01 00:00:00" "2015-11-01 01:00:00" "2015-11-01 02:00:00" "2015-11-01 03:0
## $ Junction: int 1 1 1 1 1 1 1 1 1 ...
   $ Vehicles: int 15 13 10 7 9 6 9 8 11 12 ...
              : num 2.02e+10 2.02e+10 2.02e+10 2.02e+10 2.02e+10 ...
#The data contains 4 variables those are DateTime, Junction, Vehicles and ID.
#b. subset the traffic dataset into junctions. What is the R codes and its output?
subset_junction <- subset(traffic_data, Junction == 1)</pre>
subset_junction
##
                    DateTime Junction Vehicles
                                                         TD
## 1
         2015-11-01 00:00:00
                                    1
                                            15 20151101001
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11 20170106092

24970 2017-01-06 09:00:00

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| ## | | 2015-11-01 | | 1 | | 20151101031 |
| ## | 5 | 2015-11-01 | 04:00:00 | 1 | 9 | 20151101041 |
| ## | 6 | 2015-11-01 | 05:00:00 | 1 | 6 | 20151101051 |
| ## | 7 | 2015-11-01 | 06:00:00 | 1 | 9 | 20151101061 |
| ## | 8 | 2015-11-01 | 07:00:00 | 1 | 8 | 20151101071 |
| ## | 9 | 2015-11-01 | 08:00:00 | 1 | 11 | 20151101081 |
| ## | 10 | 2015-11-01 | | 1 | | 20151101091 |
| ## | 11 | 2015-11-01 | | 1 | 15 | |
| | | | | | | |
| ## | 12 | 2015-11-01 | | 1 | 17 | |
| ## | 13 | 2015-11-01 | | 1 | | 20151101121 |
| ## | 14 | 2015-11-01 | 13:00:00 | 1 | 15 | |
| ## | 15 | 2015-11-01 | 14:00:00 | 1 | 16 | 20151101141 |
| ## | 16 | 2015-11-01 | 15:00:00 | 1 | 12 | 20151101151 |
| ## | 17 | 2015-11-01 | 16:00:00 | 1 | 12 | 20151101161 |
| ## | 18 | 2015-11-01 | 17:00:00 | 1 | 16 | 20151101171 |
| ## | 19 | 2015-11-01 | | 1 | 17 | 20151101181 |
| ## | 20 | 2015-11-01 | | 1 | 20 | |
| ## | 21 | 2015-11-01 | | 1 | 17 | |
| | | | | | | |
| ## | 22 | 2015-11-01 | | 1 | 19 | |
| ## | 23 | 2015-11-01 | | 1 | 20 | |
| ## | 24 | 2015-11-01 | 23:00:00 | 1 | 15 | 20151101231 |
| ## | 25 | 2015-11-02 | 00:00:00 | 1 | 14 | 20151102001 |
| ## | 26 | 2015-11-02 | 01:00:00 | 1 | 12 | 20151102011 |
| ## | 27 | 2015-11-02 | 02:00:00 | 1 | 14 | 20151102021 |
| ## | 28 | 2015-11-02 | 03:00:00 | 1 | 12 | 20151102031 |
| ## | 29 | 2015-11-02 | 04:00:00 | 1 | 12 | 20151102041 |
| ## | 30 | 2015-11-02 | 05:00:00 | 1 | 11 | 20151102051 |
| ## | 31 | 2015-11-02 | 06:00:00 | 1 | 13 | 20151102061 |
| | 32 | 2015-11-02 | | 1 | | 20151102071 |
| | 33 | 2015-11-02 | | 1 | | 20151102071 |
| | 34 | 2015-11-02 | | 1 | | 20151102001 |
| | | | | | | |
| | 35 | 2015-11-02 | | 1 | | 20151102101 |
| | 36 | 2015-11-02 | | 1 | 31 | |
| ## | 37 | 2015-11-02 | 12:00:00 | 1 | 35 | 20151102121 |
| ## | 38 | 2015-11-02 | 13:00:00 | 1 | 26 | 20151102131 |
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| ## | 43 | 2015-11-02 | 18:00:00 | 1 | | 20151102181 |
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                                            57 20170625161
                                    1
## 14466 2017-06-25 17:00:00
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                                            56 20170625171
## 14467 2017-06-25 18:00:00
                                           59 20170625181
                                    1
## 14468 2017-06-25 19:00:00
                                    1
                                           66 20170625191
## 14469 2017-06-25 20:00:00
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                                            64 20170625201
## 14470 2017-06-25 21:00:00
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                                            61 20170625211
## 14471 2017-06-25 22:00:00
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                                            64 20170625221
## 14472 2017-06-25 23:00:00
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                                            60 20170625231
## 14473 2017-06-26 00:00:00
                                    1
                                           59 20170626001
## 14474 2017-06-26 01:00:00
                                    1
                                           51 20170626011
## 14475 2017-06-26 02:00:00
                                    1
                                            42 20170626021
```

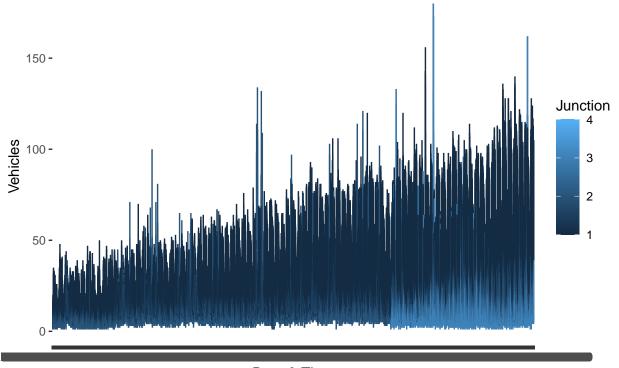
```
## 14476 2017-06-26 03:00:00
                                            40 20170626031
                                    1
## 14477 2017-06-26 04:00:00
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                                            34 20170626041
## 14478 2017-06-26 05:00:00
                                            33 20170626051
## 14479 2017-06-26 06:00:00
                                            41 20170626061
                                    1
## 14480 2017-06-26 07:00:00
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                                            48 20170626071
## 14481 2017-06-26 08:00:00
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## 14482 2017-06-26 09:00:00
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                                            64 20170626091
## 14483 2017-06-26 10:00:00
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                                            73 20170626101
## 14484 2017-06-26 11:00:00
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## 14486 2017-06-26 13:00:00
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## 14488 2017-06-26 15:00:00
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## 14510 2017-06-27 13:00:00
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## 14512 2017-06-27 15:00:00
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## 14519 2017-06-27 22:00:00
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## 14521 2017-06-28 00:00:00
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## 14522 2017-06-28 01:00:00
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## 14523 2017-06-28 02:00:00
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## 14524 2017-06-28 03:00:00
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## 14526 2017-06-28 05:00:00
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## 14527 2017-06-28 06:00:00
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## 14560 2017-06-29 15:00:00
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## 14561 2017-06-29 16:00:00
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## 14562 2017-06-29 17:00:00
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## 14570 2017-06-30 01:00:00
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## 14571 2017-06-30 02:00:00
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## 14577 2017-06-30 08:00:00
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## 14581 2017-06-30 12:00:00
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## 14582 2017-06-30 13:00:00
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                                            104 20170630141
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## 14584 2017-06-30 15:00:00
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## 14585 2017-06-30 16:00:00
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## 14586 2017-06-30 17:00:00
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## 14587 2017-06-30 18:00:00
                                            95 20170630181
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## 14588 2017-06-30 19:00:00
                                    1
                                           105 20170630191
## 14589 2017-06-30 20:00:00
                                    1
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## 14590 2017-06-30 21:00:00
                                    1
                                            90 20170630211
## 14591 2017-06-30 22:00:00
                                            84 20170630221
                                    1
## 14592 2017-06-30 23:00:00
                                            78 20170630231
#c.Plot each junction in a using geom_line(). Show your solution and output.
library(ggplot2)
ggplot(traffic_data, aes(x = DateTime, y = Vehicles, color = Junction)) +
  geom_line() +
```

labs(title = "Traffic Counts by Junction", x = "Date & Time", y = "Vehicles")

Traffic Counts by Junction

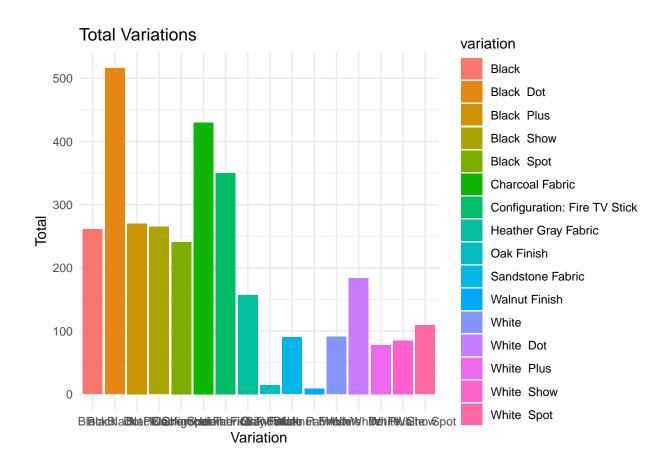


Date & Time

```
#7. From alexa_file.xlsx, import it to your environment
library("readxl")
alexa_data <- read_xlsx("C:/RStudio/RWorksheet4/alexa_file.xlsx")

#a. How many observations does alexa_file has? What about the number of columns? Show your solutionand as str(alexa_data)</pre>
```

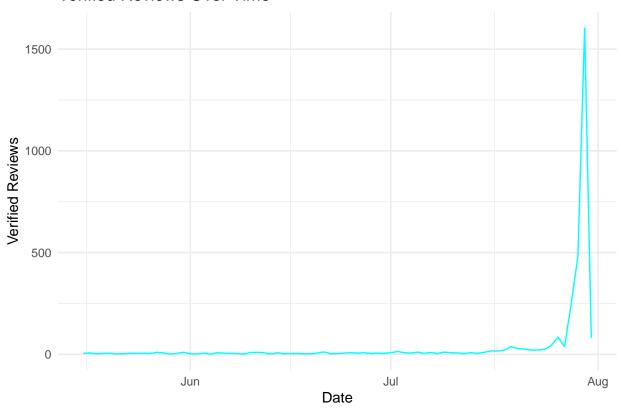
```
## $ rating
                    : num [1:3150] 5 5 4 5 5 5 3 5 5 5 ...
## $ date
                     : POSIXct[1:3150], format: "2018-07-31" "2018-07-31" ...
## $ variation
                    : chr [1:3150] "Charcoal Fabric" "Charcoal Fabric" "Walnut Finish" "Charcoal Fabr
## $ verified_reviews: chr [1:3150] "Love my Echo!" "Loved it!" "Sometimes while playing a game, you c
                  : num [1:3150] 1 1 1 1 1 1 1 1 1 1 ...
ncol(alexa_data)
## [1] 5
#alexa file has 3,150 observations and 5 columns
#b.group the variations and get the total of each variations. Use dplyr package. Show solution and answ
library(dplyr)
VarTotal <- alexa_data %>%
  group_by(variation) %>%
  summarize(total = n())
print(VarTotal)
## # A tibble: 16 x 2
##
     variation
                                   total
##
      <chr>>
                                   <int>
## 1 Black
                                     261
## 2 Black Dot
                                     516
## 3 Black Plus
                                     270
## 4 Black Show
                                     265
## 5 Black Spot
                                     241
## 6 Charcoal Fabric
                                     430
## 7 Configuration: Fire TV Stick
                                     350
## 8 Heather Gray Fabric
                                     157
## 9 Oak Finish
                                     14
## 10 Sandstone Fabric
                                     90
## 11 Walnut Finish
                                      9
## 12 White
                                     91
## 13 White Dot
                                     184
## 14 White Plus
                                     78
## 15 White Show
                                      85
## 16 White Spot
                                     109
#c.Plot the variations using the ggplot() function. What did you observe? Complete the details of the g
ggplot(VarTotal, aes(x = variation, y = total, fill = variation)) +
 geom_bar(stat = "identity") +
 labs(title = "Total Variations", x = "Variation", y = "Total") +
 theme_minimal()
```



```
#d.Plot a geom_line() with the date and the number of verified reviews. Complete the details of the gra
library(dplyr)
NumVerif <- alexa_data %>%
    group_by(date) %>%
    summarize(count = n()) %>%
    arrange(date)

library(ggplot2)
ggplot(NumVerif, aes(x = date, y = count)) +
    geom_line(color = "cyan") +
    labs(title = "Verified Reviews Over Time", x = "Date", y = "Verified Reviews") +
    theme_minimal()
```

Verified Reviews Over Time



```
#e.Get the relationship of variations and ratings. Which variations got the most highest in rating? Plo
VarRate <- alexa_data %>%
  group_by(variation) %>%
  summarize(avg_rating = mean(rating, na.rm = TRUE)) %>%
  arrange(desc(avg_rating))
VarRate
```

```
## # A tibble: 16 x 2
##
     variation
                                  avg_rating
      <chr>
                                       <dbl>
## 1 Walnut Finish
                                        4.89
## 2 Oak Finish
                                        4.86
## 3 Charcoal Fabric
                                        4.73
## 4 Heather Gray Fabric
                                        4.69
## 5 Configuration: Fire TV Stick
                                        4.59
## 6 Black Show
                                        4.49
## 7 Black Dot
                                        4.45
## 8 White Dot
                                        4.42
## 9 Black Plus
                                        4.37
## 10 White Plus
                                        4.36
## 11 Sandstone Fabric
                                        4.36
                                        4.31
## 12 White Spot
## 13 Black Spot
                                        4.31
## 14 White Show
                                        4.28
## 15 Black
                                        4.23
## 16 White
                                        4.14
```

```
ggplot(VarRate, aes(x = reorder(variation, avg_rating), y = avg_rating, fill = variation)) +
geom_bar(stat = "identity") +
labs(title = "Average Ratings by Variation", x = "Variation", y = "Average Rating") +
coord_flip()
```

