ASSIGNMENT 4

Buros Nicole

2022-04-21

# Markdown Basics

## Favorite Foods

* Tomatoes
* Olives
* Oysters

## Images



All Cases (Log Plot)

## Add a Quote

“Keep your face always toward the sunshine, and shadows will fall behind you.”

—Walt Whitman

## Add an Equation

## Add a Footnote

[[1]](#footnote-1)

This is a footnote

## Add Citations

* R for Everyone (Lander 2014)
* Discovering Statistics Using R (Field, Miles, and Field 2012)

# Inline Code

library(ggplot2)  
setwd("C:/Users/njack/OneDrive/Documents/DSC 520/dsc520")  
heights\_df <- read.csv("data/r4ds/heights.csv")  
covid\_df <- read.csv("data/nytimes/covid-19-data/us-states.csv")  
california\_df <- covid\_df[which(covid\_df$state == "California"), ]  
ny\_df <- covid\_df[which(covid\_df$state == "New York"), ]  
florida\_df <- covid\_df[which(covid\_df$state == "Florida"), ]  
heights\_df

## earn height sex ed age race  
## 1 50000 74.42444 male 16 45 white  
## 2 60000 65.53754 female 16 58 white  
## 3 30000 63.62920 female 16 29 white  
## 4 50000 63.10856 female 16 91 other  
## 5 51000 63.40248 female 17 39 white  
## 6 9000 64.39951 female 15 26 white  
## 7 29000 61.65633 female 12 49 white  
## 8 32000 72.69854 male 17 46 white  
## 9 2000 72.03947 male 15 21 hispanic  
## 10 27000 72.23493 male 12 26 white  
## 11 6530 69.51215 male 16 65 white  
## 12 30000 68.03161 male 11 34 white  
## 13 12000 67.55693 male 12 27 white  
## 14 12000 65.43059 female 12 51 white  
## 15 22000 65.66285 female 16 35 white  
## 16 17000 67.75877 male 12 58 white  
## 17 40000 68.35184 female 14 29 white  
## 18 44000 69.60957 male 13 44 white  
## 19 7000 64.18457 female 12 55 black  
## 20 53000 73.07461 male 13 35 black  
## 21 5000 62.37553 female 13 51 white  
## 22 14000 63.02393 female 14 21 white  
## 23 5500 67.22990 male 14 22 white  
## 24 40000 65.55111 female 12 41 white  
## 25 34000 72.07965 male 12 45 white  
## 26 10000 63.09113 female 12 35 black  
## 27 27000 64.32355 female 16 60 white  
## 28 50000 71.64285 male 16 38 white  
## 29 41000 76.79309 male 16 33 white  
## 30 15000 63.89391 female 14 25 white  
## 31 25000 63.80262 female 12 33 white  
## 32 75000 71.59223 male 17 39 white  
## 33 27000 67.52196 male 17 31 white  
## 34 12000 64.39435 female 12 26 white  
## 35 7500 61.17822 female 14 78 white  
## 36 30000 66.98388 female 14 31 black  
## 37 21000 65.31646 female 12 57 white  
## 38 27000 63.57419 female 14 26 white  
## 39 3000 66.61100 female 15 65 white  
## 40 25000 64.91176 female 12 30 white  
## 41 24000 64.78968 female 12 41 white  
## 42 32000 66.93769 female 18 29 white  
## 43 10000 68.17281 female 17 30 white  
## 44 11000 60.45066 female 12 21 hispanic  
## 45 18700 64.79325 female 13 32 white  
## 46 20000 61.81492 female 12 29 white  
## 47 3500 71.57215 male 10 18 white  
## 48 13000 67.31441 male 8 56 black  
## 49 25000 69.89987 male 12 65 white  
## 50 21000 69.76170 male 17 41 white  
## 51 34000 67.74647 female 17 49 white  
## 52 6000 60.19022 female 12 65 white  
## 53 17000 71.00650 male 12 28 white  
## 54 35000 71.16680 male 12 32 white  
## 55 4000 72.73563 male 13 18 white  
## 56 14000 68.13822 female 14 55 white  
## 57 10000 66.37981 female 12 57 white  
## 58 25000 69.23278 male 16 29 white  
## 59 16000 63.27394 female 14 27 white  
## 60 16000 61.82776 male 14 28 hispanic  
## 61 16500 64.22121 female 14 43 white  
## 62 4000 63.84127 female 9 68 white  
## 63 3840 66.97477 female 9 52 white  
## 64 22000 71.45149 male 12 39 white  
## 65 200 59.61265 female 16 53 white  
## 66 26000 65.79939 female 16 27 white  
## 67 2500 66.45804 female 15 21 white  
## 68 17000 64.60288 female 14 39 white  
## 69 8000 70.44048 female 13 22 white  
## 70 12000 65.92281 female 13 68 white  
## 71 10000 61.85683 female 12 47 white  
## 72 10000 65.78444 female 15 67 white  
## 73 15000 71.83128 male 12 39 white  
## 74 2400 67.04533 female 8 39 hispanic  
## 75 30000 68.30551 male 12 32 hispanic  
## 76 30000 70.02546 male 12 33 white  
## 77 10000 61.81039 female 12 38 white  
## 78 5000 62.95107 female 13 26 white  
## 79 12000 65.82114 female 13 63 white  
## 80 20000 70.39755 female 10 61 white  
## 81 20000 68.37778 female 12 36 white  
## 82 20000 69.93270 male 14 23 white  
## 83 1200 66.17181 female 12 20 white  
## 84 700 68.45636 female 16 32 white  
## 85 20000 69.90386 male 16 27 white  
## 86 10000 61.14966 female 12 22 hispanic  
## 87 30000 63.36335 female 12 73 white  
## 88 40000 64.14708 female 14 56 white  
## 89 25000 67.31839 male 12 89 white  
## 90 10000 60.67494 female 17 79 white  
## 91 60000 68.84090 female 18 63 white  
## 92 18000 67.68273 female 12 66 white  
## 93 16040 64.49677 female 12 33 white  
## 94 15000 66.81240 female 14 30 black  
## 95 10000 68.74644 male 17 23 white  
## 96 33000 67.06765 female 13 43 white  
## 97 18000 68.13799 female 12 30 white  
## 98 15000 63.34290 female 12 37 white  
## 99 21000 71.38667 male 12 22 white  
## 100 21000 63.98834 female 17 43 black  
## 101 37000 68.48639 male 11 37 white  
## 102 38000 67.51614 female 17 44 white  
## 103 17000 65.60084 female 14 43 hispanic  
## 104 32000 76.80019 male 16 30 white  
## 105 27500 67.10538 female 12 58 white  
## 106 16500 62.15164 female 12 44 white  
## 107 25000 66.86762 female 18 35 white  
## 108 27000 61.04220 female 18 43 white  
## 109 5000 64.12329 female 12 28 white  
## 110 70000 61.54482 female 16 38 white  
## 111 5000 62.55624 female 12 40 white  
## 112 5000 68.16377 male 16 24 white  
## 113 20000 63.65513 female 15 26 white  
## 114 4000 72.37352 male 15 21 white  
## 115 60000 64.14708 female 16 35 white  
## 116 5000 61.32670 female 13 31 white  
## 117 30000 74.36640 male 12 38 white  
## 118 70000 70.21016 male 14 35 white  
## 119 50000 71.10619 male 16 41 white  
## 120 44000 62.59484 female 12 39 white  
## 121 30000 64.05496 female 14 43 white  
## 122 10000 61.57362 female 16 40 white  
## 123 23000 70.48020 female 17 42 white  
## 124 45000 71.18591 male 17 62 white  
## 125 15000 71.43364 male 14 31 white  
## 126 4000 70.22885 female 14 71 white  
## 127 17000 67.28086 male 14 31 white  
## 128 30000 63.75869 female 12 32 white  
## 129 27500 67.08652 female 12 30 white  
## 130 5688 61.67960 female 8 69 white  
## 131 18000 62.28600 female 13 56 hispanic  
## 132 43000 68.29248 male 13 44 black  
## 133 32000 61.58948 female 14 44 black  
## 134 10000 68.41774 female 18 56 black  
## 135 60000 73.99126 male 13 45 white  
## 136 21000 67.56107 female 12 50 other  
## 137 2400 62.33793 female 16 22 white  
## 138 1000 66.24001 female 15 28 white  
## 139 27000 68.09847 male 12 27 white  
## 140 6600 59.77087 female 14 28 hispanic  
## 141 16000 68.06338 male 8 43 white  
## 142 90000 71.68015 male 12 26 white  
## 143 8000 66.35971 female 12 42 white  
## 144 20000 68.35626 male 10 32 white  
## 145 15000 68.45654 female 12 18 white  
## 146 12000 68.78610 female 12 60 white  
## 147 24000 64.10224 female 16 46 white  
## 148 20000 65.11349 female 14 39 white  
## 149 19000 60.64919 female 12 46 white  
## 150 10000 72.12570 male 12 49 white  
## 151 40000 65.51073 female 16 34 white  
## 152 25000 67.93190 male 14 64 white  
## 153 25000 70.44492 male 12 24 white  
## 154 25000 71.36585 male 14 32 white  
## 155 19000 71.12507 male 16 61 white  
## 156 44000 68.16014 male 16 48 white  
## 157 15000 60.11333 female 14 49 white  
## 158 17000 62.78820 female 12 36 white  
## 159 24000 68.07772 male 12 56 white  
## 160 23000 64.05084 female 12 37 white  
## 161 13000 69.71580 male 12 74 white  
## 162 65000 68.22067 male 16 46 white  
## 163 7000 60.88386 female 12 63 white  
## 164 40000 68.40754 male 18 63 white  
## 165 15000 66.00198 female 17 43 white  
## 166 20000 69.79789 male 16 25 white  
## 167 20000 71.01071 male 12 50 white  
## 168 20000 65.14241 female 12 42 white  
## 169 25000 65.96711 female 12 49 white  
## 170 49000 69.99053 male 13 37 white  
## 171 25000 61.87668 female 12 65 white  
## 172 11000 66.10888 female 14 57 white  
## 173 16000 61.05431 female 15 38 white  
## 174 35000 71.56357 male 14 43 white  
## 175 125000 74.34062 male 18 45 white  
## 176 23000 66.57699 female 12 47 white  
## 177 17000 66.11044 female 16 28 white  
## 178 27000 61.96569 female 12 41 white  
## 179 70000 71.74551 male 14 32 white  
## 180 35000 64.56222 female 15 47 white  
## 181 10000 60.19882 female 12 62 white  
## 182 35000 61.91637 female 15 39 white  
## 183 15000 66.41355 female 12 38 white  
## 184 12000 63.69852 female 12 39 white  
## 185 8000 71.29091 male 12 68 white  
## 186 8000 65.25376 female 12 50 white  
## 187 35000 73.00546 male 18 50 white  
## 188 45000 68.64007 male 11 51 white  
## 189 15000 64.38145 female 14 22 white  
## 190 15000 61.06026 female 12 77 white  
## 191 24000 66.78936 female 18 51 white  
## 192 25000 61.82930 female 13 32 white  
## 193 25000 62.60956 female 14 54 black  
## 194 20000 67.36466 male 10 28 other  
## 195 24000 68.01697 female 12 24 white  
## 196 44000 72.06415 male 16 46 white  
## 197 69000 70.10862 male 12 38 white  
## 198 62000 69.85249 male 18 44 white  
## 199 32000 67.45525 male 14 32 black  
## 200 20000 63.45313 female 12 33 black  
## 201 32000 66.29297 female 18 35 other  
## 202 25000 65.83480 female 17 50 white  
## 203 170000 71.01003 male 18 45 white  
## 204 35000 66.61942 male 16 33 white  
## 205 40000 75.56859 male 16 38 black  
## 206 33000 68.95220 male 14 30 white  
## 207 18000 65.34873 female 12 22 white  
## 208 30000 61.75212 female 13 43 white  
## 209 26000 61.76413 female 12 31 white  
## 210 5000 62.41147 female 12 21 white  
## 211 20000 61.90433 female 16 73 white  
## 212 17000 60.63861 female 12 30 white  
## 213 32000 64.82458 female 14 28 white  
## 214 15000 72.27075 male 14 22 white  
## 215 50000 71.67228 male 14 55 white  
## 216 8000 63.77093 female 12 39 white  
## 217 40000 70.78659 male 14 51 white  
## 218 40000 72.40979 male 15 41 white  
## 219 32750 66.08798 male 12 34 white  
## 220 20000 64.99933 female 14 69 white  
## 221 36000 64.52930 female 15 39 black  
## 222 6000 61.74268 female 12 64 white  
## 223 12000 65.84031 female 14 34 black  
## 224 60000 67.39964 male 14 63 white  
## 225 40000 64.02227 female 13 44 white  
## 226 43000 63.22614 female 12 38 white  
## 227 45000 67.49430 female 16 34 white  
## 228 6000 68.00212 female 18 39 white  
## 229 8000 63.85791 female 10 82 other  
## 230 20000 64.39506 female 13 39 black  
## 231 17000 66.43901 male 12 23 black  
## 232 2000 64.76538 female 12 32 white  
## 233 65000 64.53856 male 12 28 white  
## 234 50000 71.58593 male 12 41 white  
## 235 11000 68.34822 female 12 38 white  
## 236 35000 74.43320 male 18 30 white  
## 237 27000 63.21770 male 12 33 white  
## 238 3500 64.31432 female 12 61 white  
## 239 42000 68.15146 male 12 37 white  
## 240 20000 67.49495 female 18 29 white  
## 241 15000 67.31617 female 12 29 white  
## 242 10000 72.98672 male 12 21 white  
## 243 6000 70.49116 male 8 78 white  
## 244 17000 64.88575 female 16 23 hispanic  
## 245 35000 68.54049 male 16 65 hispanic  
## 246 28000 76.68067 male 14 28 white  
## 247 15000 67.69396 female 12 33 white  
## 248 20000 61.97134 female 17 24 white  
## 249 20000 64.21270 female 12 29 white  
## 250 10500 67.22247 male 12 42 hispanic  
## 251 13000 69.90214 male 16 22 white  
## 252 10000 61.77745 female 12 52 white  
## 253 3000 63.08135 female 12 37 white  
## 254 24000 62.33487 female 14 29 white  
## 255 17000 68.69584 female 13 35 white  
## 256 11000 64.09801 female 12 48 white  
## 257 32000 69.03400 female 14 40 white  
## 258 17000 58.66032 female 15 26 white  
## 259 3000 66.22625 female 12 35 other  
## 260 2100 62.09126 female 12 21 black  
## 261 3192 75.13845 male 11 34 black  
## 262 17000 63.31428 female 17 26 white  
## 263 30000 64.55410 female 13 28 white  
## 264 15000 69.80036 male 12 32 white  
## 265 24000 67.84325 female 16 42 white  
## 266 10000 64.95007 female 14 67 white  
## 267 50000 69.21831 male 8 53 white  
## 268 50000 71.88612 male 16 53 white  
## 269 20000 63.52426 female 17 49 white  
## 270 30000 62.67856 female 18 54 hispanic  
## 271 22000 73.47394 female 14 45 white  
## 272 27000 75.09407 male 12 24 white  
## 273 4000 64.77306 female 12 38 white  
## 274 17500 66.25353 female 17 26 white  
## 275 16500 66.39351 female 14 28 white  
## 276 28000 64.00329 female 16 39 white  
## 277 52000 65.57394 female 18 50 white  
## 278 15000 64.27616 female 16 29 white  
## 279 19000 62.64666 female 13 32 white  
## 280 27000 72.55974 male 12 23 white  
## 281 15000 71.78231 male 8 58 white  
## 282 15000 71.50386 male 14 33 white  
## 283 14500 64.15775 female 12 55 white  
## 284 24000 64.22769 female 13 30 white  
## 285 18000 67.79798 male 15 36 white  
## 286 4000 62.27896 female 12 68 white  
## 287 4000 68.50410 female 13 57 white  
## 288 700 60.11268 female 12 36 white  
## 289 24000 64.97933 female 12 91 white  
## 290 27000 75.96951 male 12 39 white  
## 291 12000 72.32790 female 12 35 white  
## 292 22000 61.76565 female 18 47 white  
## 293 30000 61.61640 female 13 36 white  
## 294 35000 70.55408 male 12 61 white  
## 295 20000 74.08120 male 12 42 white  
## 296 32000 65.47242 female 16 32 white  
## 297 6000 63.36531 female 12 31 other  
## 298 12000 66.85000 female 12 39 white  
## 299 10000 63.26609 female 12 31 white  
## 300 1000 64.74551 female 12 18 white  
## 301 12000 63.54206 female 15 71 white  
## 302 16000 64.92311 female 12 36 white  
## 303 25000 63.24201 female 16 33 white  
## 304 25000 69.52456 female 12 27 white  
## 305 32000 67.97809 male 12 30 white  
## 306 35000 66.54874 male 14 43 white  
## 307 6000 64.58870 female 12 28 white  
## 308 80000 68.76669 male 14 44 white  
## 309 20000 68.08389 female 14 25 white  
## 310 1000 65.81591 female 17 38 white  
## 311 28000 71.40238 male 13 38 hispanic  
## 312 26000 63.76354 male 16 23 hispanic  
## 313 27000 73.52538 male 12 24 white  
## 314 18000 61.97999 female 13 41 white  
## 315 2000 65.21052 female 12 59 white  
## 316 20000 69.37547 male 12 66 white  
## 317 6000 66.08656 female 16 48 white  
## 318 25000 66.52544 male 11 63 white  
## 319 12000 73.17216 male 12 29 white  
## 320 12000 76.18488 male 12 57 white  
## 321 30000 69.52563 male 14 76 white  
## 322 4000 62.87571 female 15 22 black  
## 323 26000 62.78291 female 13 37 black  
## 324 23000 70.07592 male 12 35 black  
## 325 21000 71.06308 male 12 33 white  
## 326 25000 65.22338 female 12 62 white  
## 327 18000 70.38000 male 16 75 white  
## 328 4000 63.24725 female 13 44 white  
## 329 23900 63.92087 female 12 22 white  
## 330 35000 64.32948 female 18 40 white  
## 331 26000 66.73039 male 14 30 white  
## 332 25000 66.49049 male 16 36 white  
## 333 23500 68.01891 female 13 27 white  
## 334 12000 65.22522 female 12 22 white  
## 335 15000 67.12425 female 12 20 white  
## 336 3000 72.93588 male 17 23 white  
## 337 6000 63.57961 female 12 67 white  
## 338 14000 71.44772 male 12 69 white  
## 339 15000 63.28314 female 16 31 white  
## 340 175000 70.58955 male 16 48 white  
## 341 1000 73.37096 male 18 25 white  
## 342 10000 64.68889 female 14 63 white  
## 343 45000 65.92309 male 13 82 white  
## 344 15000 65.84832 female 12 81 white  
## 345 20000 59.20287 female 13 41 white  
## 346 35000 69.99012 male 16 30 white  
## 347 40000 71.66564 male 16 28 white  
## 348 35000 64.20183 female 12 72 white  
## 349 50000 66.06455 female 16 54 white  
## 350 100000 69.66688 male 18 57 white  
## 351 35000 68.56316 male 13 28 white  
## 352 24000 67.72061 female 12 35 white  
## 353 35000 73.83110 male 17 43 white  
## 354 38000 72.53878 male 16 74 white  
## 355 30000 67.24277 male 12 52 white  
## 356 5000 63.98628 female 12 39 hispanic  
## 357 148000 66.74020 male 18 38 white  
## 358 30000 69.77329 male 12 32 white  
## 359 6500 63.75686 female 15 31 white  
## 360 3000 61.55948 female 16 37 white  
## 361 23000 69.29717 male 18 69 white  
## 362 40000 68.47821 male 17 41 white  
## 363 30000 72.11037 male 14 39 white  
## 364 14000 63.10641 female 12 37 white  
## 365 15000 68.71668 female 12 34 white  
## 366 26000 64.00637 female 18 36 white  
## 367 8000 71.00964 female 12 25 white  
## 368 24000 63.84402 female 16 27 black  
## 369 5124 66.10071 male 8 67 white  
## 370 10000 60.97499 female 15 25 white  
## 371 12000 67.75510 female 16 32 white  
## 372 50000 68.45831 male 17 34 white  
## 373 23000 63.80380 female 13 26 white  
## 374 40000 65.70889 male 14 34 black  
## 375 6000 61.93158 female 13 26 black  
## 376 5000 65.32257 female 16 30 black  
## 377 110000 65.96504 male 18 37 white  
## 378 41000 72.04236 male 13 32 hispanic  
## 379 23000 62.57023 female 13 78 white  
## 380 21000 70.43141 male 12 23 white  
## 381 4000 62.32131 female 12 29 white  
## 382 25000 70.70824 male 12 36 white  
## 383 30000 70.27755 male 18 46 white  
## 384 14000 63.87068 female 11 51 white  
## 385 6000 63.47754 female 12 35 white  
## 386 14000 64.59348 female 12 46 white  
## 387 43000 70.51344 male 12 27 white  
## 388 25000 61.70052 female 15 33 white  
## 389 40000 72.55343 male 12 66 white  
## 390 65000 67.58731 male 17 40 white  
## 391 16000 76.15187 male 15 32 white  
## 392 8000 65.57775 female 12 71 white  
## 393 20000 64.22912 female 15 39 white  
## 394 14000 60.31368 female 14 72 white  
## 395 45000 68.13747 male 12 74 white  
## 396 8000 60.94487 female 11 72 white  
## 397 12000 66.02238 male 12 28 white  
## 398 8000 62.88533 female 14 31 white  
## 399 16000 62.67241 female 15 32 white  
## 400 6000 73.68754 male 15 73 white  
## 401 19000 70.10196 male 12 32 white  
## 402 21000 68.30324 female 13 39 white  
## 403 43000 69.52018 female 18 46 white  
## 404 35000 68.71778 male 15 21 white  
## 405 8000 70.49465 male 10 75 white  
## 406 21000 62.77760 female 14 41 white  
## 407 5800 65.12696 female 12 30 white  
## 408 17000 69.34231 male 12 46 white  
## 409 24000 67.54425 male 14 49 white  
## 410 5000 62.34081 female 11 71 white  
## 411 11000 66.17610 female 12 23 white  
## 412 10000 65.45162 male 13 27 white  
## 413 40000 69.78536 male 14 36 white  
## 414 40000 70.46079 male 12 47 white  
## 415 24000 65.75426 female 14 29 black  
## 416 24000 68.49064 male 16 26 white  
## 417 20000 68.13681 male 16 33 white  
## 418 60000 69.74409 male 18 50 white  
## 419 11000 64.55673 female 13 47 white  
## 420 5000 64.39143 female 15 40 white  
## 421 27000 65.29906 female 16 30 white  
## 422 89000 76.53780 male 16 41 white  
## 423 40000 70.02428 male 14 28 white  
## 424 15000 64.45588 female 16 26 white  
## 425 1000 64.17829 female 14 20 white  
## 426 22000 64.37256 female 12 60 white  
## 427 12000 63.68146 female 8 48 white  
## 428 22000 62.56621 female 16 28 white  
## 429 40000 57.50322 female 12 56 black  
## 430 40000 62.02662 female 16 44 white  
## 431 35000 64.45005 female 14 53 hispanic  
## 432 7000 63.63646 female 12 28 white  
## 433 14000 62.23202 female 12 37 white  
## 434 15000 64.01304 female 12 56 white  
## 435 6000 65.88741 female 13 34 white  
## 436 11000 69.29444 female 12 41 black  
## 437 10000 64.34100 female 13 31 white  
## 438 20000 70.70352 male 14 41 white  
## 439 7000 62.08915 female 12 73 white  
## 440 38000 68.29980 male 9 46 white  
## 441 29000 67.80439 male 9 58 white  
## 442 20000 61.77627 female 10 44 white  
## 443 8000 62.51287 female 12 57 white  
## 444 36000 68.73132 male 16 51 white  
## 445 1500 67.04634 female 12 44 white  
## 446 42000 64.29710 female 18 29 white  
## 447 25000 70.38619 male 12 22 white  
## 448 13000 68.95557 male 10 20 white  
## 449 30000 69.24640 male 11 51 black  
## 450 7000 68.57202 male 12 23 white  
## 451 31000 59.84566 female 12 48 black  
## 452 15000 66.42150 female 12 42 black  
## 453 50000 66.63238 male 16 49 white  
## 454 5000 66.24960 male 15 20 white  
## 455 600 70.23859 female 12 18 black  
## 456 14000 64.48861 female 8 51 black  
## 457 40000 59.97167 female 18 35 other  
## 458 24000 68.26500 male 18 36 white  
## 459 22000 72.73850 male 12 24 black  
## 460 20000 71.86160 male 8 36 white  
## 461 20112 63.75193 female 12 38 white  
## 462 12000 67.34015 male 13 67 white  
## 463 41000 67.24025 female 13 40 white  
## 464 13000 71.46243 male 9 50 black  
## 465 60000 72.73708 male 16 31 white  
## 466 24000 70.28583 male 16 25 white  
## 467 38000 70.06343 male 16 36 white  
## 468 3000 71.13169 female 14 27 white  
## 469 13000 65.96480 female 12 30 white  
## 470 5000 74.80273 male 12 21 white  
## 471 20000 60.26324 female 14 37 white  
## 472 22000 72.45994 male 12 28 white  
## 473 28000 74.78834 male 9 55 black  
## 474 22000 59.80482 female 12 41 white  
## 475 30000 73.43138 male 12 44 black  
## 476 30000 64.59752 female 12 32 black  
## 477 30000 67.11170 male 16 31 white  
## 478 32000 61.05400 female 12 69 white  
## 479 26000 69.28213 female 17 43 white  
## 480 22000 64.41598 female 14 34 white  
## 481 25000 70.34138 male 12 33 white  
## 482 11000 67.63296 female 10 24 white  
## 483 13000 62.18865 female 12 53 white  
## 484 10000 63.78785 female 15 42 white  
## 485 12000 67.58146 female 12 45 white  
## 486 7000 63.51531 female 11 64 white  
## 487 57000 72.64024 male 14 37 white  
## 488 36000 72.82462 male 16 37 white  
## 489 29000 69.40743 male 14 29 hispanic  
## 490 8000 68.29110 female 13 19 white  
## 491 3000 70.64524 male 11 18 black  
## 492 20000 66.13450 female 16 41 white  
## 493 33000 66.37326 male 12 57 white  
## 494 15000 68.30015 female 12 68 hispanic  
## 495 16000 70.29628 male 12 33 white  
## 496 5000 61.82134 female 12 78 white  
## 497 8000 65.75500 female 14 43 white  
## 498 32000 63.02599 female 16 34 black  
## 499 14500 74.51779 male 12 24 white  
## 500 13000 66.59654 female 12 29 white  
## 501 7000 62.63598 female 9 25 white  
## 502 50000 64.71526 female 18 65 black  
## 503 12000 69.20172 female 12 35 black  
## 504 19000 71.47208 male 14 61 white  
## 505 9000 61.90178 female 12 55 white  
## 506 20000 64.74551 female 12 35 black  
## 507 55000 71.71052 male 18 35 hispanic  
## 508 10000 64.90903 female 12 40 white  
## 509 13000 63.15415 female 12 19 white  
## 510 20000 63.97677 female 13 31 white  
## 511 30000 71.58899 male 12 26 white  
## 512 12000 63.59626 female 12 34 white  
## 513 26000 70.06810 female 13 33 white  
## 514 12500 64.97475 female 12 27 white  
## 515 8000 64.31371 female 12 29 white  
## 516 15000 64.20908 female 16 32 hispanic  
## 517 65000 66.97400 male 14 25 white  
## 518 25000 73.18381 male 10 21 white  
## 519 8000 72.53887 male 14 21 hispanic  
## 520 15000 64.50500 male 14 21 other  
## 521 12000 63.93105 female 16 40 white  
## 522 35000 67.08204 female 13 37 black  
## 523 40000 66.61123 male 16 31 white  
## 524 29000 73.89562 male 12 22 white  
## 525 15000 63.44261 female 13 31 white  
## 526 20000 73.68861 male 12 36 white  
## 527 3000 73.91113 male 6 62 black  
## 528 1000 63.08713 female 16 19 black  
## 529 8000 62.03633 female 11 23 black  
## 530 5000 62.45248 female 12 18 white  
## 531 25000 67.03790 female 16 27 white  
## 532 20000 68.59331 male 12 57 white  
## 533 30000 72.67425 male 12 34 white  
## 534 12000 62.87129 female 12 35 white  
## 535 10000 67.22335 female 14 32 white  
## 536 16000 69.39067 male 12 19 white  
## 537 45000 71.41330 male 12 29 white  
## 538 40000 72.08596 male 14 54 white  
## 539 25000 70.21479 male 14 81 white  
## 540 19000 64.30326 female 14 52 white  
## 541 17600 64.13060 female 16 30 white  
## 542 7000 67.91112 male 12 67 white  
## 543 30000 74.34589 male 12 32 white  
## 544 18000 61.81896 female 11 47 white  
## 545 25000 65.12869 female 16 47 white  
## 546 6000 59.96125 female 5 62 white  
## 547 70000 69.38679 male 18 42 white  
## 548 15000 60.75150 female 16 34 other  
## 549 25000 64.93233 female 17 33 white  
## 550 35000 66.20340 female 16 28 white  
## 551 18000 69.91583 male 16 24 white  
## 552 28000 71.56571 male 15 30 black  
## 553 15000 63.90538 female 11 21 hispanic  
## 554 22000 71.33306 male 14 28 hispanic  
## 555 35000 73.39039 male 12 30 white  
## 556 18000 64.03798 female 15 46 black  
## 557 35000 67.84231 male 14 37 white  
## 558 16400 64.25282 female 12 21 black  
## 559 22000 65.64795 male 16 37 black  
## 560 30000 66.54677 female 16 58 white  
## 561 17000 64.12242 female 12 27 hispanic  
## 562 25000 64.11060 female 14 36 black  
## 563 10000 62.21866 female 12 51 white  
## 564 40000 68.94602 male 12 37 white  
## 565 12500 63.24088 female 12 63 white  
## 566 35000 72.39141 male 15 45 white  
## 567 105000 74.58005 male 12 49 white  
## 568 100000 69.52920 male 18 40 white  
## 569 21000 69.33476 male 12 51 white  
## 570 10000 64.01763 female 14 56 white  
## 571 33000 71.93661 male 12 26 white  
## 572 26000 69.46231 male 18 25 white  
## 573 60000 63.07907 female 10 78 white  
## 574 18000 71.11434 male 16 45 white  
## 575 15000 59.34178 female 8 61 white  
## 576 5000 68.31486 male 13 20 white  
## 577 60000 77.05128 male 17 42 white  
## 578 12000 68.41968 female 14 69 white  
## 579 28000 69.67201 male 18 38 black  
## 580 42000 69.28192 male 18 43 white  
## 581 2000 62.73899 female 12 33 white  
## 582 20000 72.79469 male 18 33 black  
## 583 28000 66.12674 male 15 40 other  
## 584 10000 72.19215 male 17 62 black  
## 585 31000 72.22432 male 12 31 black  
## 586 17000 68.98432 female 13 37 black  
## 587 16000 67.17655 female 12 39 white  
## 588 35000 65.67095 female 15 38 white  
## 589 3000 67.34625 female 12 26 white  
## 590 16000 67.53278 female 18 39 white  
## 591 35000 64.57749 female 15 42 black  
## 592 27000 61.58435 female 17 33 black  
## 593 25000 69.38512 male 17 29 white  
## 594 40000 69.60982 male 16 41 white  
## 595 45000 66.07183 female 16 43 white  
## 596 14000 65.85618 male 12 23 white  
## 597 25000 66.39505 female 14 37 white  
## 598 40000 71.84415 male 12 42 white  
## 599 34000 68.89893 male 12 35 white  
## 600 40000 65.75578 male 12 34 white  
## 601 35000 69.44946 male 14 28 white  
## 602 12000 60.15630 female 12 51 hispanic  
## 603 30000 64.56873 female 17 43 white  
## 604 23000 61.58792 female 12 40 white  
## 605 2000 67.07979 female 12 30 white  
## 606 20000 67.21214 male 14 25 white  
## 607 10000 67.83994 female 9 62 black  
## 608 60000 65.61768 female 16 43 black  
## 609 12000 74.24347 male 16 41 black  
## 610 25000 65.47813 female 18 61 white  
## 611 22000 62.88988 female 14 73 black  
## 612 8000 68.10779 male 17 25 white  
## 613 2000 66.39806 female 16 21 white  
## 614 18600 65.49678 female 16 26 white  
## 615 20000 61.54580 female 14 20 white  
## 616 100000 72.62916 male 18 37 white  
## 617 50000 61.89058 female 15 40 white  
## 618 27000 69.81381 male 12 42 white  
## 619 1000 58.27594 female 12 58 black  
## 620 18000 68.37147 male 12 20 white  
## 621 17000 67.35070 female 14 23 white  
## 622 10000 63.83751 female 12 74 white  
## 623 14000 70.36153 male 14 35 white  
## 624 7200 72.49588 male 14 66 white  
## 625 33000 63.19196 female 17 39 white  
## 626 23000 66.26428 male 12 34 white  
## 627 10000 64.88321 female 12 41 white  
## 628 22000 60.58631 male 12 24 white  
## 629 13000 60.81704 female 12 19 hispanic  
## 630 33000 67.20153 female 12 31 white  
## 631 36000 73.11522 male 12 36 white  
## 632 10000 70.52104 female 14 32 black  
## 633 6000 64.49766 female 12 60 white  
## 634 12000 66.64803 female 12 43 white  
## 635 10000 62.07149 female 11 47 white  
## 636 21000 67.40431 female 12 45 white  
## 637 26000 68.69590 male 12 32 white  
## 638 22000 66.06555 female 12 50 black  
## 639 23000 66.18482 female 15 54 black  
## 640 20000 66.44449 male 15 24 white  
## 641 10000 65.50939 female 13 38 white  
## 642 15000 64.06472 female 12 71 white  
## 643 7000 72.11810 male 14 24 black  
## 644 15000 64.13901 female 12 38 white  
## 645 26000 64.75170 female 16 34 white  
## 646 10000 72.20326 male 11 31 white  
## 647 3000 71.00609 male 14 20 white  
## 648 27000 64.19495 female 17 41 hispanic  
## 649 28000 63.65898 female 17 25 white  
## 650 15000 66.86213 female 12 27 white  
## 651 55000 75.18170 male 18 30 white  
## 652 20000 65.86811 female 17 26 hispanic  
## 653 8500 67.14265 female 12 44 white  
## 654 30000 70.58245 male 16 30 white  
## 655 20000 68.35426 female 12 31 white  
## 656 22000 70.44056 male 6 75 white  
## 657 25000 66.50504 male 16 26 white  
## 658 3000 70.50765 male 8 22 white  
## 659 16000 62.66823 female 12 49 white  
## 660 10000 61.04436 female 12 39 black  
## 661 15000 64.86502 female 12 28 black  
## 662 28000 67.24574 male 12 46 white  
## 663 31500 64.93867 male 14 35 white  
## 664 95000 65.68957 male 18 52 white  
## 665 38000 66.51239 male 12 40 white  
## 666 30000 74.21724 male 12 41 white  
## 667 35900 73.80273 male 16 42 white  
## 668 12000 66.28297 female 13 22 white  
## 669 10000 68.93080 female 16 25 white  
## 670 45000 66.09704 female 18 44 white  
## 671 40000 74.36389 male 16 56 white  
## 672 21500 72.37949 male 12 27 white  
## 673 14000 65.61603 male 12 62 white  
## 674 38000 66.52629 male 17 54 other  
## 675 1000 64.73345 female 12 18 white  
## 676 14000 66.37034 male 12 73 white  
## 677 15000 64.52285 female 12 31 white  
## 678 24000 67.82326 female 13 42 white  
## 679 4500 64.15133 female 16 23 white  
## 680 18000 64.35311 female 16 63 white  
## 681 14000 63.33757 female 12 20 white  
## 682 10000 68.97627 female 12 28 white  
## 683 9500 67.44008 female 12 32 white  
## 684 11000 62.95530 female 15 66 white  
## 685 17000 66.85605 male 12 67 white  
## 686 6000 59.82544 female 13 28 white  
## 687 2500 61.85860 female 11 58 white  
## 688 40000 72.44135 male 16 41 white  
## 689 25000 66.60469 male 16 39 white  
## 690 28000 66.39671 female 15 60 black  
## 691 33000 66.38942 female 12 45 black  
## 692 4000 59.57195 female 8 64 white  
## 693 4100 65.33567 male 16 30 white  
## 694 25000 68.58468 female 12 82 white  
## 695 32000 71.66115 male 12 28 white  
## 696 13000 63.93733 female 8 58 white  
## 697 8000 64.48913 male 8 27 hispanic  
## 698 17000 64.24300 female 12 38 white  
## 699 15000 66.79827 female 12 77 white  
## 700 18000 65.99471 male 13 32 white  
## 701 12000 73.07390 male 12 24 white  
## 702 7000 73.82733 male 7 49 white  
## 703 1200 64.83539 female 14 22 white  
## 704 14000 63.11851 male 12 21 white  
## 705 17000 63.43203 female 12 40 white  
## 706 30000 66.34629 male 12 42 white  
## 707 25000 69.91938 male 12 53 white  
## 708 22000 65.86858 female 12 33 hispanic  
## 709 15000 63.44294 female 12 21 white  
## 710 27000 73.07807 male 12 91 white  
## 711 20000 63.01705 female 16 26 white  
## 712 9000 68.92440 female 11 34 white  
## 713 17000 73.14869 male 12 30 white  
## 714 1800 67.79395 female 12 46 white  
## 715 18000 63.62625 female 12 46 white  
## 716 25000 62.57749 female 18 42 white  
## 717 20000 70.10582 male 16 41 black  
## 718 75000 64.31609 female 15 40 white  
## 719 3500 65.75935 female 12 40 white  
## 720 36000 60.85753 female 12 71 white  
## 721 30000 72.05727 male 12 25 white  
## 722 25000 64.55149 female 13 78 white  
## 723 1000 64.24739 female 14 26 white  
## 724 60000 68.02362 male 12 66 white  
## 725 35000 73.89188 male 13 76 white  
## 726 9000 66.63394 male 13 33 white  
## 727 35000 69.86527 male 9 84 white  
## 728 11000 66.11651 female 10 58 white  
## 729 12000 71.34630 male 12 52 white  
## 730 30000 70.88307 male 12 43 white  
## 731 19000 71.47186 male 7 57 black  
## 732 9000 74.41812 male 9 61 white  
## 733 30000 74.69529 male 16 29 white  
## 734 9000 71.92581 male 12 32 white  
## 735 15000 65.85539 female 16 30 hispanic  
## 736 8000 64.52972 female 12 31 black  
## 737 10000 66.49255 female 10 75 white  
## 738 33000 71.70659 male 12 37 white  
## 739 12000 60.09432 female 12 28 hispanic  
## 740 18000 63.97287 female 15 37 white  
## 741 30000 64.81971 female 13 61 white  
## 742 12500 64.71230 female 12 32 white  
## 743 10000 61.97447 female 12 36 black  
## 744 8500 68.29414 male 13 71 black  
## 745 21000 73.48687 male 14 46 black  
## 746 21000 63.93752 female 12 77 white  
## 747 21000 68.21020 female 17 25 white  
## 748 5000 66.10164 female 12 52 white  
## 749 22000 71.22581 female 17 36 white  
## 750 30000 72.70185 male 14 26 white  
## 751 123000 61.42908 female 14 58 white  
## 752 8000 63.24714 female 9 45 white  
## 753 2000 64.36810 female 9 25 white  
## 754 7600 67.04141 female 6 62 white  
## 755 10000 63.15251 female 12 25 white  
## 756 35000 72.70741 male 12 48 white  
## 757 15000 66.07587 female 16 57 white  
## 758 4000 69.75553 female 12 22 white  
## 759 16000 67.89105 male 8 24 white  
## 760 200 66.86191 female 12 33 white  
## 761 23000 74.10505 male 16 25 white  
## 762 16000 63.60244 female 16 27 white  
## 763 6000 60.20715 female 12 49 white  
## 764 600 59.45893 female 9 46 white  
## 765 28000 74.59877 male 16 34 other  
## 766 4000 65.95294 female 8 66 white  
## 767 15000 64.16955 male 12 35 white  
## 768 15000 71.26410 male 12 25 white  
## 769 25000 63.12568 female 12 30 white  
## 770 15000 67.16629 female 12 26 white  
## 771 40000 68.58090 male 11 44 white  
## 772 30000 70.34383 male 11 51 white  
## 773 5000 66.38894 female 12 29 white  
## 774 35000 73.58718 male 14 34 white  
## 775 16000 64.78882 female 14 31 white  
## 776 28000 63.53549 female 16 40 white  
## 777 20000 67.63722 male 15 42 white  
## 778 21000 65.60212 male 13 30 white  
## 779 17000 68.83580 male 12 42 black  
## 780 24000 59.93190 female 13 50 white  
## 781 25000 60.79660 female 12 75 white  
## 782 40000 75.03414 male 12 46 white  
## 783 8000 63.93496 female 13 19 white  
## 784 19000 62.74962 female 15 45 hispanic  
## 785 45000 67.22273 female 16 69 white  
## 786 5000 64.10166 male 17 33 black  
## 787 24000 63.43396 female 14 40 black  
## 788 5000 67.07147 female 14 19 white  
## 789 33000 65.87795 male 16 34 white  
## 790 24000 65.22229 female 14 24 white  
## 791 6000 62.64251 female 13 23 white  
## 792 90000 66.43623 female 14 55 white  
## 793 57000 64.09800 female 18 47 white  
## 794 13800 70.74232 male 14 54 white  
## 795 30000 71.24931 male 18 37 white  
## 796 15000 71.70961 male 12 40 white  
## 797 15000 59.66460 female 14 75 white  
## 798 31000 69.78665 male 12 29 white  
## 799 33000 73.99725 male 17 40 white  
## 800 30000 67.55916 male 18 61 white  
## 801 12000 74.33899 male 12 38 white  
## 802 5000 75.00721 male 12 22 white  
## 803 21000 68.16158 male 12 59 white  
## 804 28000 62.58655 female 18 46 white  
## 805 12000 72.03875 male 12 31 white  
## 806 19000 64.49414 female 12 46 white  
## 807 6000 62.60842 female 14 35 white  
## 808 5300 65.90543 female 13 60 white  
## 809 15000 60.87601 female 13 28 white  
## 810 17000 73.12189 male 12 46 white  
## 811 4700 65.54228 female 12 78 black  
## 812 9500 62.07427 female 12 65 white  
## 813 1700 64.53591 male 12 22 white  
## 814 5400 62.35350 female 12 31 white  
## 815 10000 68.11736 male 12 31 white  
## 816 25000 58.88042 female 15 83 white  
## 817 35000 68.42126 female 16 43 white  
## 818 28000 62.78644 female 18 44 white  
## 819 42000 62.76001 female 12 40 white  
## 820 45000 67.82704 male 12 58 white  
## 821 55000 64.15770 female 12 51 white  
## 822 36000 70.10556 female 16 30 white  
## 823 25000 70.27167 male 10 31 white  
## 824 19000 72.18899 male 12 28 white  
## 825 38000 68.90136 male 11 50 white  
## 826 15000 63.07259 female 14 37 white  
## 827 4500 57.97290 female 5 85 white  
## 828 96000 63.11989 female 14 27 white  
## 829 11000 62.70556 female 12 47 white  
## 830 9000 72.57431 male 15 34 white  
## 831 5000 69.41363 female 14 24 white  
## 832 50000 69.82504 male 12 51 white  
## 833 6000 64.89705 female 13 44 white  
## 834 100000 71.51572 male 13 22 white  
## 835 16500 61.91616 female 13 46 white  
## 836 32000 71.60782 male 14 40 white  
## 837 30000 72.75964 male 18 41 white  
## 838 10000 67.91167 female 16 42 white  
## 839 15000 66.13226 female 12 19 white  
## 840 6500 59.90598 female 8 83 white  
## 841 26000 60.30743 female 18 63 white  
## 842 17000 64.87640 female 12 59 white  
## 843 22000 62.80542 female 18 59 other  
## 844 10000 63.93523 female 12 41 white  
## 845 50000 70.50475 male 14 58 white  
## 846 20000 67.17893 male 12 35 white  
## 847 400 62.90287 female 12 31 white  
## 848 16000 65.08065 female 14 59 white  
## 849 10000 66.42656 female 12 66 white  
## 850 14000 62.94001 female 13 58 white  
## 851 5000 65.19972 female 15 20 white  
## 852 40000 73.78851 male 16 34 white  
## 853 5000 67.18860 female 13 55 white  
## 854 25000 67.54551 female 17 47 white  
## 855 12000 65.25626 female 12 51 white  
## 856 58000 63.70218 female 16 34 white  
## 857 18000 67.83460 female 16 26 white  
## 858 1000 65.48821 male 12 18 white  
## 859 21000 71.76438 male 17 47 white  
## 860 11000 65.69804 male 12 62 black  
## 861 13000 63.66103 female 12 36 white  
## 862 20000 59.63484 female 16 88 other  
## 863 25000 71.69116 male 12 35 black  
## 864 600 63.51513 female 12 43 white  
## 865 25000 67.28185 male 14 26 black  
## 866 36000 67.84666 male 12 28 white  
## 867 15000 64.05579 female 13 33 other  
## 868 3500 65.62335 female 12 51 white  
## 869 19005 64.61287 female 16 34 white  
## 870 62000 70.36270 male 14 54 white  
## 871 25000 70.13582 male 12 42 white  
## 872 50000 66.03882 male 12 52 white  
## 873 40000 65.66768 male 12 61 white  
## 874 26000 73.68208 male 18 26 white  
## 875 22000 62.23430 female 12 48 white  
## 876 21000 65.58047 female 17 39 white  
## 877 6108 62.34291 female 12 65 white  
## 878 30000 64.71665 female 18 64 black  
## 879 6000 63.41644 female 12 78 white  
## 880 27000 70.93384 male 16 29 white  
## 881 4000 65.78463 female 16 42 white  
## 882 4416 61.52156 female 6 72 other  
## 883 5000 63.13920 female 10 87 white  
## 884 45000 66.56994 male 18 40 white  
## 885 18000 60.76265 female 14 45 white  
## 886 6000 66.40241 female 15 22 white  
## 887 14000 72.40009 male 12 24 white  
## 888 35000 69.32629 female 14 24 white  
## 889 15000 64.14805 female 16 29 white  
## 890 12000 62.50258 female 12 29 black  
## 891 1000 59.63618 female 12 47 white  
## 892 32000 69.84609 male 15 33 black  
## 893 1500 72.79965 male 12 19 white  
## 894 3000 64.87412 female 16 23 black  
## 895 35000 64.27539 female 12 42 white  
## 896 70000 71.60516 male 15 48 white  
## 897 21000 67.13204 female 16 28 white  
## 898 50000 69.10554 male 11 18 white  
## 899 15000 70.90079 male 9 21 white  
## 900 9000 65.99266 female 8 35 black  
## 901 10000 63.21551 female 14 25 black  
## 902 30000 71.37289 male 12 47 white  
## 903 16000 72.07876 male 14 21 white  
## 904 20000 67.93927 male 12 51 white  
## 905 100000 71.94711 male 17 54 white  
## 906 10000 65.66242 female 12 43 white  
## 907 35000 66.47077 male 14 63 white  
## 908 7000 65.42764 female 16 31 white  
## 909 8000 71.35958 male 14 27 black  
## 910 11000 73.69928 male 10 50 white  
## 911 25000 70.20955 male 9 47 white  
## 912 25000 64.33590 female 14 45 white  
## 913 30000 69.23577 male 14 48 white  
## 914 48000 63.16803 female 18 34 white  
## 915 17000 67.97178 female 12 46 white  
## 916 26000 72.63630 male 16 24 white  
## 917 10000 62.64564 female 12 61 white  
## 918 60000 71.15194 male 18 53 white  
## 919 22000 64.94458 female 18 29 white  
## 920 6200 64.22719 female 13 83 white  
## 921 24000 64.74690 female 16 32 white  
## 922 20000 70.69914 male 14 40 white  
## 923 7000 69.61523 female 14 30 white  
## 924 30000 67.70270 female 16 48 black  
## 925 23000 66.09329 female 18 28 white  
## 926 20000 64.39957 female 12 40 white  
## 927 3000 65.88019 female 16 29 white  
## 928 30000 69.73543 male 16 41 white  
## 929 12000 63.79241 female 14 23 white  
## 930 40000 70.60792 male 12 38 white  
## 931 15000 63.83650 female 14 23 white  
## 932 36000 63.41338 female 16 45 white  
## 933 10000 66.23722 female 12 53 white  
## 934 13000 68.38071 female 14 48 white  
## 935 10000 61.52425 female 12 27 black  
## 936 30000 68.53243 male 12 37 black  
## 937 23000 64.46456 male 13 32 white  
## 938 20000 69.60981 male 17 68 white  
## 939 19000 65.37075 female 13 82 white  
## 940 20000 60.75108 male 11 66 black  
## 941 28000 63.99366 male 14 63 black  
## 942 13000 64.58116 female 10 80 white  
## 943 12000 64.13895 male 12 75 white  
## 944 20000 69.30129 male 11 23 white  
## 945 25000 73.63658 male 12 30 white  
## 946 25000 68.19243 female 13 52 white  
## 947 18000 66.59646 female 16 40 white  
## 948 6000 61.80107 female 10 68 white  
## 949 16000 72.24264 male 13 23 white  
## 950 45000 73.46034 male 16 38 white  
## 951 25000 69.87076 male 14 69 white  
## 952 12000 63.51997 female 14 38 white  
## 953 2000 68.21243 female 12 18 white  
## 954 10000 62.91207 female 12 18 white  
## 955 14000 70.72026 male 12 36 white  
## 956 15000 63.74181 female 12 31 white  
## 957 10000 60.36111 female 12 39 white  
## 958 1200 65.76632 female 4 64 white  
## 959 15000 58.92336 female 14 62 white  
## 960 10000 63.10044 female 13 64 white  
## 961 2000 66.20177 male 12 18 white  
## 962 4000 65.44585 female 13 33 white  
## 963 10000 64.39271 female 14 32 white  
## 964 1500 65.77418 female 12 23 white  
## 965 18000 65.50058 male 17 26 hispanic  
## 966 4000 72.89740 male 15 24 white  
## 967 28000 72.44737 male 16 26 white  
## 968 10000 74.32628 female 14 22 white  
## 969 3000 64.65599 female 16 22 white  
## 970 12000 70.61207 male 12 21 white  
## 971 19000 68.07568 female 13 45 white  
## 972 36000 70.49066 male 16 39 white  
## 973 7000 64.21713 female 16 59 white  
## 974 35000 58.72468 female 11 34 white  
## 975 40000 67.90288 male 18 43 white  
## 976 15000 67.93034 male 14 25 white  
## 977 8000 68.82437 female 13 43 white  
## 978 25000 69.43574 female 14 55 white  
## 979 28000 75.26532 male 18 38 white  
## 980 22000 69.13342 male 14 35 white  
## 981 21500 72.04506 male 13 24 black  
## 982 3000 68.33676 female 12 23 white  
## 983 23000 71.53957 male 13 28 white  
## 984 18000 72.35495 male 12 73 white  
## 985 20000 67.29746 male 16 71 white  
## 986 16000 63.21394 female 12 46 hispanic  
## 987 15000 69.21808 male 12 26 white  
## 988 53000 62.87644 female 17 32 hispanic  
## 989 26000 72.30503 male 12 27 white  
## 990 4000 65.43678 female 12 28 other  
## 991 10000 72.68583 male 16 59 white  
## 992 43000 69.12368 male 12 51 white  
## 993 17000 68.80012 male 14 33 other  
## 994 4000 61.49719 female 12 38 hispanic  
## 995 50000 73.19213 male 15 48 white  
## 996 55000 66.86296 female 18 51 white  
## 997 28000 63.07393 female 16 41 white  
## 998 5000 62.15914 female 14 48 white  
## 999 18000 65.39749 female 13 49 white  
## 1000 21000 71.56490 male 15 62 hispanic  
## 1001 12000 67.19160 female 12 33 white  
## 1002 33000 65.49676 female 16 62 hispanic  
## 1003 50000 72.42630 male 13 64 hispanic  
## 1004 6000 65.38834 female 9 74 hispanic  
## 1005 16000 63.81682 female 14 59 white  
## 1006 35000 68.20842 male 12 50 white  
## 1007 25000 68.29211 female 12 43 white  
## 1008 20000 76.38236 male 14 26 white  
## 1009 18000 62.61693 female 12 36 white  
## 1010 34000 74.39722 male 14 78 white  
## 1011 25000 68.47598 male 16 25 white  
## 1012 20000 72.08176 male 17 77 white  
## 1013 33000 67.56834 male 12 69 white  
## 1014 4000 64.54943 female 12 73 white  
## 1015 20000 60.10434 female 8 77 white  
## 1016 40000 72.36485 male 16 33 white  
## 1017 14000 63.72689 female 14 40 white  
## 1018 12000 68.01107 female 12 48 white  
## 1019 25000 61.14690 female 12 31 white  
## 1020 70000 67.08765 female 10 72 white  
## 1021 38000 67.20368 female 17 55 white  
## 1022 14000 63.04842 female 12 28 white  
## 1023 15000 60.24540 female 13 37 white  
## 1024 17000 73.56450 male 16 31 white  
## 1025 60000 68.81879 male 14 66 white  
## 1026 15000 66.74730 female 15 69 white  
## 1027 25000 64.91763 male 16 86 white  
## 1028 18000 62.20893 male 12 63 hispanic  
## 1029 70000 71.82154 male 18 47 white  
## 1030 30000 64.57803 female 18 59 white  
## 1031 8000 62.36229 female 12 51 white  
## 1032 30000 70.92462 male 16 34 white  
## 1033 27000 71.35941 male 14 32 white  
## 1034 47000 70.07702 male 18 43 white  
## 1035 12000 66.55482 male 12 22 hispanic  
## 1036 24000 61.77156 female 17 34 white  
## 1037 13000 62.89387 female 12 35 hispanic  
## 1038 80000 60.81635 female 14 37 white  
## 1039 5000 71.81258 male 12 18 white  
## 1040 25000 62.51972 female 10 60 white  
## 1041 28000 65.83384 male 12 44 white  
## 1042 8000 64.12672 female 15 20 white  
## 1043 10000 66.43378 female 13 51 white  
## 1044 9000 68.26159 female 14 41 white  
## 1045 20000 59.55762 female 12 37 white  
## 1046 12000 65.18920 male 12 71 white  
## 1047 15000 64.76620 female 14 66 white  
## 1048 20000 61.33605 female 14 36 white  
## 1049 28000 63.90803 female 14 36 white  
## 1050 265 65.98172 female 15 21 white  
## 1051 35000 69.35291 male 14 74 white  
## 1052 26000 65.99869 female 14 32 hispanic  
## 1053 27000 66.64220 female 17 34 white  
## 1054 14000 68.37846 female 12 30 white  
## 1055 32000 65.51632 male 16 33 white  
## 1056 10000 69.09659 female 14 32 white  
## 1057 7000 69.32438 male 16 30 white  
## 1058 28000 71.01265 male 17 46 white  
## 1059 60000 73.87646 male 13 54 white  
## 1060 12000 68.53997 male 4 62 white  
## 1061 15000 75.15666 female 13 75 white  
## 1062 15000 71.85208 male 11 63 white  
## 1063 26000 64.38789 female 15 32 white  
## 1064 26000 71.68615 male 16 25 hispanic  
## 1065 18720 62.75757 female 10 36 black  
## 1066 12000 63.80686 female 12 73 black  
## 1067 80000 70.42836 male 17 39 white  
## 1068 48000 66.41484 female 13 39 white  
## 1069 18000 62.49871 male 16 27 other  
## 1070 85000 69.73083 male 15 65 white  
## 1071 35000 63.64059 female 12 47 black  
## 1072 5000 68.70302 male 16 22 white  
## 1073 9000 64.18301 female 13 22 hispanic  
## 1074 30000 67.13533 female 16 27 white  
## 1075 80000 71.67133 male 14 58 white  
## 1076 35000 65.06636 female 16 32 white  
## 1077 12000 63.38769 female 14 34 white  
## 1078 200000 69.66276 male 18 34 white  
## 1079 4000 64.20871 female 16 45 white  
## 1080 2000 68.04928 male 12 18 white  
## 1081 24000 65.95546 female 18 69 white  
## 1082 2000 66.31635 male 15 23 hispanic  
## 1083 15000 69.68933 male 17 30 white  
## 1084 6000 62.25103 female 12 65 white  
## 1085 5000 65.91611 male 12 75 white  
## 1086 1500 66.49011 female 12 21 hispanic  
## 1087 28000 63.54176 female 18 48 white  
## 1088 9000 69.91641 female 12 35 white  
## 1089 60000 74.14910 male 14 52 white  
## 1090 1200 65.50048 male 12 19 white  
## 1091 1400 61.64302 female 3 64 hispanic  
## 1092 7000 66.43334 female 13 43 white  
## 1093 21000 62.27002 female 12 31 white  
## 1094 44000 69.05178 male 12 58 white  
## 1095 29000 67.69980 male 16 36 black  
## 1096 3000 71.82785 male 14 18 hispanic  
## 1097 12000 64.32170 male 13 22 black  
## 1098 20000 72.47294 male 12 28 hispanic  
## 1099 1200 61.72064 female 5 73 black  
## 1100 37000 73.76301 male 16 25 white  
## 1101 8000 66.28669 male 10 60 other  
## 1102 35000 67.89220 male 16 30 hispanic  
## 1103 25000 61.94551 male 14 37 other  
## 1104 18000 71.17571 female 10 29 white  
## 1105 30000 62.52137 female 16 36 black  
## 1106 20000 69.24438 male 18 69 white  
## 1107 12000 71.20133 male 6 40 hispanic  
## 1108 10000 65.93158 female 12 68 white  
## 1109 18000 71.89919 male 14 48 white  
## 1110 20000 72.11578 male 12 26 black  
## 1111 31000 67.54589 female 16 43 white  
## 1112 6000 63.50634 male 10 36 hispanic  
## 1113 12000 69.84664 male 13 40 white  
## 1114 13000 66.35971 female 16 33 white  
## 1115 26000 66.51458 female 17 34 white  
## 1116 15000 68.06513 female 11 31 black  
## 1117 30000 63.77365 female 17 28 white  
## 1118 2000 64.70483 female 14 41 white  
## 1119 5000 69.95972 male 13 22 other  
## 1120 53000 71.26888 female 14 26 white  
## 1121 2000 61.87336 female 13 18 white  
## 1122 25000 70.85695 male 17 29 white  
## 1123 5000 74.30637 male 12 18 white  
## 1124 21000 64.20481 female 13 27 white  
## 1125 17000 69.74732 female 15 27 white  
## 1126 12000 64.00159 female 13 37 white  
## 1127 42000 69.62591 male 14 44 hispanic  
## 1128 21000 73.66522 male 12 33 white  
## 1129 6000 62.72194 female 12 65 hispanic  
## 1130 25000 73.55019 male 14 24 white  
## 1131 3000 66.08877 female 14 19 white  
## 1132 3600 65.39048 female 15 67 white  
## 1133 4000 70.91890 male 12 19 white  
## 1134 20000 68.52425 male 14 58 white  
## 1135 52000 60.29879 male 15 50 white  
## 1136 60000 64.01087 female 12 43 white  
## 1137 15000 63.81617 female 13 41 white  
## 1138 90000 71.89981 male 16 50 white  
## 1139 26000 61.41213 female 14 65 white  
## 1140 2000 68.69143 male 12 21 white  
## 1141 16000 67.11030 female 12 61 white  
## 1142 24000 64.56858 female 11 27 hispanic  
## 1143 15000 68.26174 male 16 28 hispanic  
## 1144 42000 74.42452 male 17 43 white  
## 1145 10000 65.19333 female 12 43 white  
## 1146 17000 70.70130 male 13 36 hispanic  
## 1147 30000 64.43980 female 14 34 white  
## 1148 32000 68.86163 female 17 37 white  
## 1149 36000 64.38678 female 17 34 hispanic  
## 1150 10000 71.90196 male 13 20 hispanic  
## 1151 20000 62.55289 female 15 29 white  
## 1152 24000 64.88607 female 12 29 white  
## 1153 17000 71.65621 male 12 32 white  
## 1154 23000 65.15171 female 14 48 white  
## 1155 25000 64.28045 female 12 33 white  
## 1156 50000 70.88341 male 12 50 white  
## 1157 20000 61.76662 female 12 30 white  
## 1158 30000 66.27003 female 16 33 white  
## 1159 7000 64.07142 female 10 39 white  
## 1160 7000 66.80599 male 10 78 white  
## 1161 30000 68.07656 male 11 32 white  
## 1162 3000 65.75189 female 12 24 white  
## 1163 20000 66.01494 female 14 43 white  
## 1164 40000 65.76547 female 16 59 white  
## 1165 10000 66.74771 male 12 77 white  
## 1166 16000 66.14089 male 12 37 white  
## 1167 11000 63.30037 female 9 51 white  
## 1168 16000 67.61928 female 13 43 white  
## 1169 18000 70.42987 male 12 27 white  
## 1170 12000 62.62478 female 16 26 white  
## 1171 4000 69.98806 male 14 21 black  
## 1172 60000 71.81932 male 12 45 white  
## 1173 43000 74.77192 male 17 40 white  
## 1174 31000 61.96560 female 14 39 white  
## 1175 50000 68.21042 female 17 39 white  
## 1176 27000 68.04935 female 14 29 white  
## 1177 30000 70.49075 male 17 56 white  
## 1178 12000 73.38321 male 13 21 black  
## 1179 20000 62.13713 female 17 30 white  
## 1180 15000 59.77629 female 12 76 black  
## 1181 25000 64.15965 female 16 37 other  
## 1182 2000 60.19710 female 6 67 hispanic  
## 1183 3000 73.26521 male 15 20 hispanic  
## 1184 110000 66.31204 female 18 48 other  
## 1185 55000 68.99589 male 18 71 white  
## 1186 58000 70.34337 male 18 53 white  
## 1187 10000 70.05628 female 16 36 white  
## 1188 19000 72.16573 male 12 29 white  
## 1189 15000 61.13580 female 18 82 white  
## 1190 8000 63.66416 female 12 33 white  
## 1191 60000 71.92584 male 12 50 white  
## 1192 6000 68.36849 male 12 27 white

california\_df

## date state fips cases deaths  
## 6 2020-01-25 California 6 1 0  
## 10 2020-01-26 California 6 2 0  
## 14 2020-01-27 California 6 2 0  
## 18 2020-01-28 California 6 2 0  
## 22 2020-01-29 California 6 2 0  
## 26 2020-01-30 California 6 2 0  
## 30 2020-01-31 California 6 3 0  
## 34 2020-02-01 California 6 3 0  
## 39 2020-02-02 California 6 6 0  
## 44 2020-02-03 California 6 6 0  
## 49 2020-02-04 California 6 6 0  
## 54 2020-02-05 California 6 6 0  
## 60 2020-02-06 California 6 6 0  
## 66 2020-02-07 California 6 6 0  
## 72 2020-02-08 California 6 6 0  
## 78 2020-02-09 California 6 6 0  
## 84 2020-02-10 California 6 7 0  
## 90 2020-02-11 California 6 7 0  
## 96 2020-02-12 California 6 7 0  
## 103 2020-02-13 California 6 7 0  
## 110 2020-02-14 California 6 7 0  
## 117 2020-02-15 California 6 7 0  
## 124 2020-02-16 California 6 7 0  
## 131 2020-02-17 California 6 7 0  
## 139 2020-02-18 California 6 7 0  
## 147 2020-02-19 California 6 7 0  
## 155 2020-02-20 California 6 8 0  
## 163 2020-02-21 California 6 9 0  
## 171 2020-02-22 California 6 9 0  
## 179 2020-02-23 California 6 9 0  
## 187 2020-02-24 California 6 11 0  
## 195 2020-02-25 California 6 11 0  
## 204 2020-02-26 California 6 26 0  
## 213 2020-02-27 California 6 26 0  
## 222 2020-02-28 California 6 27 0  
## 232 2020-02-29 California 6 28 0  
## 242 2020-03-01 California 6 33 0  
## 255 2020-03-02 California 6 38 0  
## 270 2020-03-03 California 6 45 0  
## 286 2020-03-04 California 6 55 1  
## 303 2020-03-05 California 6 67 1  
## 324 2020-03-06 California 6 81 1  
## 352 2020-03-07 California 6 100 1  
## 385 2020-03-08 California 6 112 1  
## 420 2020-03-09 California 6 172 2  
## 457 2020-03-10 California 6 179 3  
## 497 2020-03-11 California 6 202 4  
## 543 2020-03-12 California 6 252 4  
## 591 2020-03-13 California 6 320 5  
## 642 2020-03-14 California 6 381 5  
## 694 2020-03-15 California 6 478 6  
## 747 2020-03-16 California 6 588 11  
## 800 2020-03-17 California 6 732 14  
## 854 2020-03-18 California 6 893 17  
## 908 2020-03-19 California 6 1067 19  
## 962 2020-03-20 California 6 1283 24  
## 1016 2020-03-21 California 6 1544 28  
## 1070 2020-03-22 California 6 1851 35  
## 1124 2020-03-23 California 6 2240 39  
## 1178 2020-03-24 California 6 2644 52  
## 1232 2020-03-25 California 6 3183 67  
## 1286 2020-03-26 California 6 4060 82  
## 1340 2020-03-27 California 6 4914 102  
## 1394 2020-03-28 California 6 5565 121  
## 1449 2020-03-29 California 6 6266 130  
## 1504 2020-03-30 California 6 7421 146  
## 1559 2020-03-31 California 6 8582 183  
## 1614 2020-04-01 California 6 9816 212  
## 1669 2020-04-02 California 6 11190 247  
## 1724 2020-04-03 California 6 12569 282  
## 1779 2020-04-04 California 6 13796 323  
## 1834 2020-04-05 California 6 15076 349  
## 1889 2020-04-06 California 6 16284 386  
## 1944 2020-04-07 California 6 17540 447  
## 1999 2020-04-08 California 6 19043 506  
## 2054 2020-04-09 California 6 20191 548  
## 2109 2020-04-10 California 6 21366 594  
## 2164 2020-04-11 California 6 22421 632  
## 2219 2020-04-12 California 6 23323 676  
## 2274 2020-04-13 California 6 24334 725  
## 2329 2020-04-14 California 6 25758 778  
## 2384 2020-04-15 California 6 27107 885  
## 2439 2020-04-16 California 6 28142 971  
## 2494 2020-04-17 California 6 29398 1050  
## 2549 2020-04-18 California 6 30829 1146  
## 2604 2020-04-19 California 6 31544 1176  
## 2659 2020-04-20 California 6 33862 1223  
## 2714 2020-04-21 California 6 35844 1316  
## 2769 2020-04-22 California 6 37573 1425  
## 2824 2020-04-23 California 6 39534 1553  
## 2879 2020-04-24 California 6 41368 1619  
## 2934 2020-04-25 California 6 42347 1677  
## 2989 2020-04-26 California 6 43691 1716

ny\_df

## date state fips cases deaths  
## 247 2020-03-01 New York 36 1 0  
## 262 2020-03-02 New York 36 1 0  
## 277 2020-03-03 New York 36 2 0  
## 294 2020-03-04 New York 36 11 0  
## 314 2020-03-05 New York 36 22 0  
## 339 2020-03-06 New York 36 44 0  
## 370 2020-03-07 New York 36 89 0  
## 405 2020-03-08 New York 36 106 0  
## 441 2020-03-09 New York 36 142 0  
## 479 2020-03-10 New York 36 173 0  
## 522 2020-03-11 New York 36 217 0  
## 569 2020-03-12 New York 36 326 0  
## 619 2020-03-13 New York 36 421 0  
## 670 2020-03-14 New York 36 610 2  
## 723 2020-03-15 New York 36 732 6  
## 776 2020-03-16 New York 36 950 10  
## 829 2020-03-17 New York 36 1374 17  
## 883 2020-03-18 New York 36 2382 27  
## 937 2020-03-19 New York 36 4152 30  
## 991 2020-03-20 New York 36 7102 57  
## 1045 2020-03-21 New York 36 10356 80  
## 1099 2020-03-22 New York 36 15168 122  
## 1153 2020-03-23 New York 36 20875 159  
## 1207 2020-03-24 New York 36 25665 218  
## 1261 2020-03-25 New York 36 33066 325  
## 1315 2020-03-26 New York 36 38987 432  
## 1369 2020-03-27 New York 36 44635 535  
## 1423 2020-03-28 New York 36 53363 782  
## 1478 2020-03-29 New York 36 59568 965  
## 1533 2020-03-30 New York 36 67174 1224  
## 1588 2020-03-31 New York 36 75832 1550  
## 1643 2020-04-01 New York 36 83889 1941  
## 1698 2020-04-02 New York 36 92381 2373  
## 1753 2020-04-03 New York 36 102870 2935  
## 1808 2020-04-04 New York 36 114996 3568  
## 1863 2020-04-05 New York 36 122911 4161  
## 1918 2020-04-06 New York 36 130689 4758  
## 1973 2020-04-07 New York 36 140081 5563  
## 2028 2020-04-08 New York 36 149401 6268  
## 2083 2020-04-09 New York 36 159937 7067  
## 2138 2020-04-10 New York 36 170512 7844  
## 2193 2020-04-11 New York 36 180458 8627  
## 2248 2020-04-12 New York 36 188694 9385  
## 2303 2020-04-13 New York 36 195031 10056  
## 2358 2020-04-14 New York 36 202208 10834  
## 2413 2020-04-15 New York 36 213779 11586  
## 2468 2020-04-16 New York 36 222284 12192  
## 2523 2020-04-17 New York 36 229642 12822  
## 2578 2020-04-18 New York 36 236763 13362  
## 2633 2020-04-19 New York 36 242817 13869  
## 2688 2020-04-20 New York 36 247543 14347  
## 2743 2020-04-21 New York 36 251720 14828  
## 2798 2020-04-22 New York 36 257246 15302  
## 2853 2020-04-23 New York 36 263460 15740  
## 2908 2020-04-24 New York 36 271621 16162  
## 2963 2020-04-25 New York 36 282174 16599  
## 3018 2020-04-26 New York 36 288076 16966

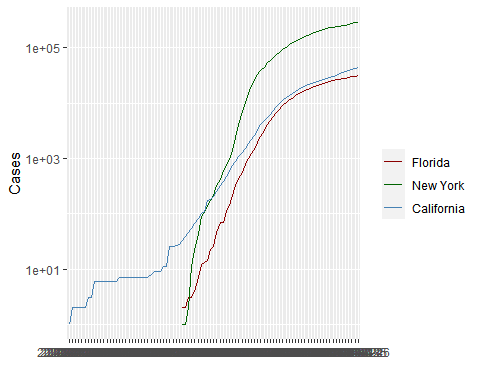
florida\_df

## date state fips cases deaths  
## 243 2020-03-01 Florida 12 2 0  
## 256 2020-03-02 Florida 12 2 0  
## 271 2020-03-03 Florida 12 3 0  
## 287 2020-03-04 Florida 12 3 0  
## 305 2020-03-05 Florida 12 4 0  
## 326 2020-03-06 Florida 12 7 2  
## 355 2020-03-07 Florida 12 12 2  
## 389 2020-03-08 Florida 12 13 2  
## 424 2020-03-09 Florida 12 14 2  
## 461 2020-03-10 Florida 12 23 2  
## 502 2020-03-11 Florida 12 26 2  
## 548 2020-03-12 Florida 12 46 2  
## 596 2020-03-13 Florida 12 70 2  
## 647 2020-03-14 Florida 12 70 3  
## 699 2020-03-15 Florida 12 109 3  
## 752 2020-03-16 Florida 12 141 4  
## 805 2020-03-17 Florida 12 210 6  
## 859 2020-03-18 Florida 12 326 7  
## 913 2020-03-19 Florida 12 434 8  
## 967 2020-03-20 Florida 12 564 9  
## 1021 2020-03-21 Florida 12 764 11  
## 1075 2020-03-22 Florida 12 1000 13  
## 1129 2020-03-23 Florida 12 1222 18  
## 1183 2020-03-24 Florida 12 1467 19  
## 1237 2020-03-25 Florida 12 1965 23  
## 1291 2020-03-26 Florida 12 2477 29  
## 1345 2020-03-27 Florida 12 3198 46  
## 1399 2020-03-28 Florida 12 4038 56  
## 1454 2020-03-29 Florida 12 4942 59  
## 1509 2020-03-30 Florida 12 5694 71  
## 1564 2020-03-31 Florida 12 6741 85  
## 1619 2020-04-01 Florida 12 7765 100  
## 1674 2020-04-02 Florida 12 9000 144  
## 1729 2020-04-03 Florida 12 10260 169  
## 1784 2020-04-04 Florida 12 11537 194  
## 1839 2020-04-05 Florida 12 12342 220  
## 1894 2020-04-06 Florida 12 13621 253  
## 1949 2020-04-07 Florida 12 14739 295  
## 2004 2020-04-08 Florida 12 15690 322  
## 2059 2020-04-09 Florida 12 16819 370  
## 2114 2020-04-10 Florida 12 17960 418  
## 2169 2020-04-11 Florida 12 18978 445  
## 2224 2020-04-12 Florida 12 19855 460  
## 2279 2020-04-13 Florida 12 21011 498  
## 2334 2020-04-14 Florida 12 21620 570  
## 2389 2020-04-15 Florida 12 22526 613  
## 2444 2020-04-16 Florida 12 23332 667  
## 2499 2020-04-17 Florida 12 24745 725  
## 2554 2020-04-18 Florida 12 25484 747  
## 2609 2020-04-19 Florida 12 26306 773  
## 2664 2020-04-20 Florida 12 27050 822  
## 2719 2020-04-21 Florida 12 27861 866  
## 2774 2020-04-22 Florida 12 28301 926  
## 2829 2020-04-23 Florida 12 29640 986  
## 2884 2020-04-24 Florida 12 30525 1045  
## 2939 2020-04-25 Florida 12 30831 1054  
## 2994 2020-04-26 Florida 12 31520 1073

include=FALSE

## NY Times COVID-19 Data

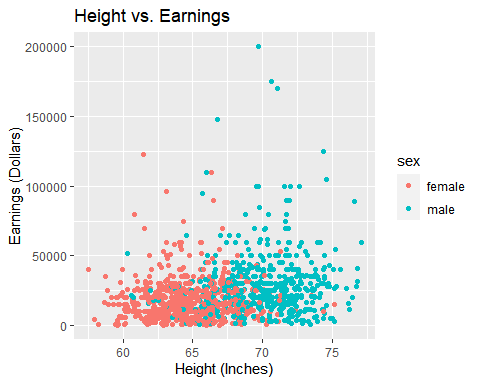
ggplot(data=florida\_df, aes(x=date, group=1)) +  
 geom\_line(aes(y = cases, color = "Florida")) +  
 geom\_line(data=ny\_df, aes(y = cases,color="New York")) +  
 geom\_line(data=california\_df, aes(y = cases, color="California")) +  
 scale\_colour\_manual("",  
 breaks = c("Florida", "New York", "California"),  
 values = c('darkred','darkgreen','steelblue')) +  
 xlab("") + ylab("Cases") + scale\_y\_log10()



echo=FALSE

## R4DS Height vs Earnings

ggplot(heights\_df, aes(x=height, y=earn, col=sex)) + geom\_point() + ggtitle('Height vs. Earnings') + xlab('Height (Inches)') + ylab('Earnings (Dollars)')



echo=FALSE

# Tables

## Knitr Table with Kable

library(tinytex)  
name <- c("Aragon", "Bilbo", "Frodo", "Galadriel", "Sam", "Gandalf", "Legolas", "Sauron", "Gollum")  
race <- c("Men", "Hobbit", "Hobbit", "Elf", "Hobbit", "Maia", "Elf", "Maia", "Hobbit")  
in\_fellowship <- c(TRUE, FALSE, TRUE, FALSE, TRUE, TRUE, TRUE, FALSE, FALSE)  
ring\_bearer <- c(FALSE, TRUE, TRUE, FALSE, TRUE, TRUE, FALSE, TRUE, TRUE)  
age <- c(88, 129, 51, 7000, 36, 2019, 2931, 7052, 589)  
characters\_df <- data.frame(name, race, in\_fellowship, ring\_bearer, age)  
knitr::kable(characters\_df[ , ], caption = 'One Ring to Rule Them All')

One Ring to Rule Them All

| name | race | in\_fellowship | ring\_bearer | age |
| --- | --- | --- | --- | --- |
| Aragon | Men | TRUE | FALSE | 88 |
| Bilbo | Hobbit | FALSE | TRUE | 129 |
| Frodo | Hobbit | TRUE | TRUE | 51 |
| Galadriel | Elf | FALSE | FALSE | 7000 |
| Sam | Hobbit | TRUE | TRUE | 36 |
| Gandalf | Maia | TRUE | TRUE | 2019 |
| Legolas | Elf | TRUE | FALSE | 2931 |
| Sauron | Maia | FALSE | TRUE | 7052 |
| Gollum | Hobbit | FALSE | TRUE | 589 |

## Pandoc Table

|  |
| --- |
| Name | Race | In Fellowship? | Is Ring Bearer? | Age Aragon | Men | Yes | No | 88 Bilbo | Hobbit | No | Yes | 129 Frodo | Hobbit | Yes | Yes | 51 Sam | Hobbit | Yes | Yes | 36 Sauron | Maia | No | Yes | 7052 |

# References

Field, A., J. Miles, and Z. Field. 2012. *Discovering Statistics Using r*. SAGE Publications. <https://books.google.com/books?id=wd2K2zC3swIC>.

Lander, J. P. 2014. *R for Everyone: Advanced Analytics and Graphics*. Addison-Wesley Data and Analytics Series. Addison-Wesley. <https://books.google.com/books?id=3eBVAgAAQBAJ>.

1. This is a footnote. [↑](#footnote-ref-1)