Weiland Homework 1

Ethan Weiland

2022-09-15

```r
# 1.)
list.files("books")
```

```
##  [1] "1289-0.txt"  "1400-0.txt"  "564-0.txt"   "580-0.txt"   "653-0.txt"
##  [6] "675-0.txt"   "678-0.txt"   "700-0.txt"   "766-0.txt"   "786-0.txt"
## [11] "821-0.txt"   "882-0.txt"   "883-0.txt"   "917-0.txt"   "963-0.txt"
## [16] "967-0.txt"   "968-0.txt"   "98-0.txt"    "pg1023.txt"  "pg19337.txt"
## [21] "pg730.txt"
```

```r
# 2.)
title <- rep(NA, 21)
n_words <- rep(NA, 21)
n_chars <- rep(NA, 21)
n_individuals <- rep(NA, 21)
dickens_novels <- data.frame(title, n_words, n_chars, n_individuals)
```

```r
# 3.)

library("readr")

n_chars <- c()
for (i in list.files("books")) {
  txt_file <- paste("books/", noquote(i), sep="")
  b <- read_file(txt_file)
  n_chars[i] <- nchar(b)
}
dickens_novels$n_chars <- n_chars

n_words <- c()
for (i in list.files("books")) {
  txt_file <- paste("books/", noquote(i), sep="")
  b <- read_file(txt_file)
  n_words[i] <- lengths(gregexpr("\\w+", b))
}
dickens_novels$n_words <- n_words

title <- c()
for (i in list.files("books")) {
  txt_file <- paste("books/", noquote(i), sep="")
  b <- read_file(txt_file)
  x <- regmatches(b, regexpr("Title:.+Author:", b))
```

```r
  y <- strsplit(x, " (\n)*Author:")
  z <- strsplit(y[[1]][1], "Title: ")
  title[i] <- z[[1]][2]
}
dickens_novels$title <- title
```

```r
# 4.)

#Regular expression = (((M|D)r?s?\\.)|Miss) ([A-Z]\\. )*([A-Z]([a-z]+) )+

n_individuals <- c()
for (i in list.files("books")) {
  txt_file <- paste("books/", noquote(i), sep="")
  b <- read_file(txt_file)
  x <- regmatches(b, gregexpr("(((M|D)r?s?\\.)|Miss) ([A-Z]\\. )*([A-Z]([a-z]+) )+", b))
  y <- unique(x[[1]])
  n_individuals[i] <- length(y)
}
dickens_novels$n_individuals <- n_individuals
```

```r
# 5.)
print(dickens_novels)
```

```
##                                                             title
## 1                                             Three Ghost Stories
## 2                                              Great Expectations
## 3                                       The Mystery of Edwin Drood
## 4                                              The Pickwick Papers
## 5                                                      The Chimes
## 6                            American Notes for General Circulation
## 7           The Cricket on the Hearth      A Fairy Tale of Home
## 8                                           The Old Curiosity Shop
## 9                                               David Copperfield
## 10                                                     Hard Times
## 11                                                  Dombey and Son
## 12 Sketches by Boz       illustrative of everyday life and every-day people
## 13                                               Our Mutual Friend
## 14                                                   Barnaby Rudge
## 15                                                   Little Dorrit
## 16                   The Life And Adventures Of Nicholas Nickleby
## 17                         Life And Adventures Of Martin Chuzzlewit
## 18          A Tale of Two Cities      A Story of the French Revolution
## 19                                                      Bleak House
## 20                                                A Christmas Carol
## 21                                                     Oliver Twist
##     n_words n_chars n_individuals
## 1     21540  117592             6
## 2    189058  994805            40
## 3     97981  543945            41
## 4    310900 1747077           156
## 5     31671  170199             7
## 6    105019  591685            13
## 7     32626  177436             8
```

```
## 8    222058 1215791           19
## 9    364000 1935370           92
## 10   106056  580129           21
## 11   364103 1993998           13
## 12   261761 1495634          280
## 13   334399 1813491           25
## 14   260131 1419413            8
## 15   345499 1881369           11
## 16   331170 1849196          122
## 17   345660 1881062           21
## 18   138533  758077           20
## 19   362429 1942318           99
## 20    30152  164250            7
## 21   162429  898373           43
```

```r
# 6.)
for (i in list.files("books")) {
  txt_file <- paste("books/", noquote(i), sep="")
  b <- read_file(txt_file)
  x <- regmatches(b, regexpr("Title:.+Author:", b))
  y <- strsplit(x, " (\n)*Author:")
  z <- strsplit(y[[1]][1], "Title: ")
  print(z[[1]][2])
  x <- regmatches(b, gregexpr("(((M|D)r?s?\\.)|Miss) ([A-Z]\\. )*([A-Z]([a-z]+) )+", b))
  y <- unique(x[[1]])
  print(y)
}
```

```
## [1] "Three Ghost Stories"
## [1] "Mrs. Trimmer " "Mr. Beaver "   "Miss Griffin " "Miss Bule "
## [5] "Miss Pipson "  "Mr. Harker "
## [1] "Great Expectations"
##  [1] "Mrs. Joe "          "Mr. Hubble "          "Mrs. Hubble "
##  [4] "Mr. Wopsle "        "Mr. Pumblechook "     "Miss Havisham "
##  [7] "Miss Pocket "       "Miss Sarah "          "Miss Sarah Pocket "
## [10] "Mr. Camilla "       "Mrs. Camilla "        "Mr. Jaggers "
## [13] "Mr. Matthew "       "Mr. Trabb "           "Mr. Pocket "
## [16] "Mr. Wemmick "       "Mr. Matthew Pocket "  "Mr. Herbert Pocket "
## [19] "Mr. Havisham "      "Mrs. Pocket "         "Mrs. Coiler "
## [22] "Miss Jane "         "Miss Estella "        "Mr. Pip "
## [25] "Mr. Waldengarver "  "Mrs. J. Gargery "     "Mr. Gargery "
## [28] "Miss Skiffins "     "Mrs. Brandley "       "Miss Havishams "
## [31] "Mr. Drummle "       "Mrs. Blandley "       "Mr. Provis "
## [34] "Mr. Herbert "       "Miss Clara Barley "   "Mr. Barley "
## [37] "Mr. Campbell "      "Mrs. Whimple "        "Mrs. Bentley "
## [40] "Mrs. Wemmick "
## [1] "The Mystery of Edwin Drood"
##  [1] "Mr. Jasper "        "Mr. Crisparkle "      "Mr. Tope "
##  [4] "Mrs. Dean "         "Mrs. Tope "           "Miss Scornful "
##  [7] "Mrs. Edwin "        "Miss Twinkleton "     "Miss Rosa "
## [10] "Miss Bud "          "Mr. Porters "         "Mr. Edwin Drood "
## [13] "Mr. Drood "         "Mr. Edwin "           "Mrs. Edwin Drood "
## [16] "Mr. Thomas "        "Mr. Sapsea "          "Miss Brobity "
## [19] "Mrs. Crisparkle "   "Mr. Honeythunder "    "Miss Helena Landless "
```

```
## [22] "Mr. Neville "          "Miss Rosebud "         "Miss Landless "
## [25] "Mrs. Tisher "          "Miss Jennings "        "Miss Ferdinand "
## [28] "Miss Giggles "         "Mr. Grewgious "        "Mr. Landless "
## [31] "Miss Pussy "           "Mr. Bazzard "          "Mr. Datchery "
## [34] "Miss Rosa Bud "        "Mr. Tartar "           "Miss Helena "
## [37] "Mrs. Billickin "       "Mr. Lobley "           "Mr. John "
## [40] "Mr. Durdles "          "Mr. Peartree "
## [1] "The Pickwick Papers"
##  [1] "Mr. Pickwick "          "Mr. Winkle "
##  [3] "Mr. Weller "            "Mr. Samuel Weller "
##  [5] "Mr. Trotter "           "Mr. Peter Magnus "
##  [7] "Mr. Nupkins "           "Mr. Job "
##  [9] "Mr. Bob Sawyer "        "Mr. Samuel "
## [11] "Mr. Benjamin "          "Mr. Robert Sawyer "
## [13] "Mr. Stiggins "          "Mr. Jingle "
## [15] "Mr. Snodgrass "         "Mr. Solomon "
## [17] "Mr. Tracy "             "Mr. Samuel Pickwick "
## [19] "Mr. Augustus "          "Mr. Nathaniel "
## [21] "Mr. Tupman "            "Mr. Tracy Tupman "
## [23] "Mr. Smithie "           "Mrs. Smithie "
## [25] "Mrs. Colonel "          "Miss Bulder "
## [27] "Mrs. Colonel Bulder "   "Mrs. Budger "
## [29] "Mr. Payne "             "Miss Rachael "
## [31] "Mr. Trundle "           "Miss Isabella Wardle "
## [33] "Miss Wardle "           "Miss Emily Wardle "
## [35] "Mr. Wardle "            "Miss Isabella "
## [37] "Mr. Miller "            "Mr. Dumkins "
## [39] "Mr. Struggles "         "Mr. Luffey "
## [41] "Mr. Alfred "            "Mr. Warren "
## [43] "Mr. Blotton "           "Mrs. Bardell "
## [45] "Mr. Perker "            "Mr. Pott "
## [47] "Mrs. Pott "             "Mr. Horatio "
## [49] "Mrs. Leo Hunter "       "Mrs. Leo "
## [51] "Mr. Leo "               "Mr. Leo Hunter "
## [53] "Mr. Solomon Lucas "     "Mr. Charles "
## [55] "Mr. Hunter "            "Mr. Job Trotter "
## [57] "Miss Smithers "         "Miss Tomkins "
## [59] "Mr. Pipkin "            "Miss Lobbs "
## [61] "Mrs. Martha Bardell "   "Mr. Dodson "
## [63] "Mr. Fogg "              "Mr. Jackson "
## [65] "Mr. Lowten "            "Mr. Heyling "
## [67] "Mr. Peter "             "Mr. Magnus "
## [69] "Mrs. Martha "           "Mr. Veller "
## [71] "Mrs. Magnus "           "Mr. Jinks "
## [73] "Mr. Grummer "           "Miss Witherfield "
## [75] "Mr. Dubbley "           "Mr. Muzzle "
## [77] "Mrs. Nupkins "          "Miss Nupkins "
## [79] "Mrs. Porkenham "        "Mr. Sidney "
## [81] "Mr. Sidney Porkenham "  "Mrs. Cluppins "
## [83] "Mrs. Sanders "          "Mrs. Weller "
## [85] "Mr. Bob "               "Mr. Benjamin Allen "
## [87] "Mr. Allen "             "Mr. Serjeant "
## [89] "Mr. Serjeant Snubbins " "Mr. Serjeant Snubbin "
## [91] "Mr. Mallard "           "Mr. Phunky "
```

```
##  [93] "Mr. Ben Allen "        "Mr. Ben "
##  [95] "Mrs. Raddle "          "Mr. Raddle "
##  [97] "Mr. Sawyer "           "Mr. Hopkins "
##  [99] "Mr. Slasher "          "Mr. Gunter "
## [101] "Mr. Noddy "            "Mrs. Veller "
## [103] "Mr. Anthony "          "Mr. Jonas "
## [105] "Mr. Humm "             "Mr. Anthony Humm "
## [107] "Mr. Justice Stareleigh " "Mr. Serjeant Buzfuz "
## [109] "Mr. Justice "          "Mr. Skimpin "
## [111] "Mr. Bardell "          "Mr. Cluppins "
## [113] "Mrs. Mudberry "        "Mrs. Bunkin "
## [115] "Mr. Sanders "          "Mr. Dowler "
## [117] "Mrs. Dowler "          "Mr. Bantam "
## [119] "Mr. Crushton "         "Miss Bolo "
## [121] "Mrs. Colonel Wugsby "  "Mrs. Craddock "
## [123] "Mr. John "             "Mr. John Smauker "
## [125] "Mr. Smauker "          "Mr. Tuckle "
## [127] "Mr. Whiffers "         "Miss Allen "
## [129] "Miss Arabella "        "Mr. Vinkle "
## [131] "Mr. Pruffle "          "Mr. Smouch "
## [133] "Mr. Namby "            "Mr. Price "
## [135] "Mr. Tom "              "Mr. Roker "
## [137] "Mr. Smangle "          "Mr. Mivins "
## [139] "Mr. Simpson "          "Mr. Martin "
## [141] "Mr. Pell "             "Mrs. Rogers "
## [143] "Mrs. Perker "          "Mr. Robert "
## [145] "Mrs. Cripps "          "Mr. Slumkey "
## [147] "Mr. Slurk "            "Miss Emily "
## [149] "Mr. Tony "             "Mr. Solomon Pell "
## [151] "Mrs. Pell "            "Mr. Flasher "
## [153] "Mrs. Winkle "          "Mrs. Nathaniel "
## [155] "Mrs. Trundle "         "Mrs. Snodgrass "
## [1] "The Chimes"
## [1] "Mr. Filer "          "Mrs. Alderman Cute "  "Mr. Alderman Cute "
## [4] "Mr. Fish "           "Mrs. Chickenstalker " "Mrs. Tugby "
## [7] "Mr. Tugby "
## [1] "American Notes for General Circulation"
##  [1] "Mr. Robins "       "Mr. Ralph Waldo " "Dr. Crocus "       "Mr. Webster "
##  [5] "Mr. E. S. Baker " "Mr. Arndt "        "Mr. Bridgman "     "Mr. James "
##  [9] "Mr. Loose "        "Mr. P. Arpin "    "Mr. Arpin "        "Mr. Joseph "
## [13] "Mr. Thorn "
## [1] "The Cricket on the Hearth        A Fairy Tale of Home"
## [1] "Mrs. Peerybingle " "Mrs. Tackleton "   "Miss Slowboy "
## [4] "Mr. Boxer "         "Mr. Tackleton "    "Mrs. Edward "
## [7] "Mrs. Fielding "     "Mrs. Dot "
## [1] "The Old Curiosity Shop"
##  [1] "Miss Jiniwin "          "Miss Nelly "           "Miss Sophia Wackles "
##  [4] "Miss Sophy Wackles "    "Miss Sophy "           "Miss Wackles "
##  [7] "Miss Melissa "          "Miss Sophia "          "Miss Jane "
## [10] "Miss Melissa Wackles "  "Miss Jane Wackles "    "Miss Cheggs "
## [13] "Miss Nell "             "Miss Monflathers "     "Miss Edwards "
## [16] "Miss Sally "            "Miss Brass "           "Miss Sally Brass "
## [19] "Miss Wackleses "
## [1] "David Copperfield"
```

```
##  [1] "Mr. Dick Fulfils My " "Miss Betsey "         "Mrs. David "
##  [4] "Mr. Copperfield "     "Mr. Chillip "         "Mr. Bodgers "
##  [7] "Mrs. Bodgers "        "Mr. Murdstone "       "Mr. Brooks "
## [10] "Mr. Quinion "         "Mr. Passnidge "       "Mr. Peggotty "
## [13] "Mrs. Peggotty "       "Mrs. Gummidge "       "Miss Murdstone "
## [16] "Mr. Barkis "          "Mrs. Fibbitson "      "Mr. Mell "
## [19] "Mr. Creakle "         "Mrs. Creakle "        "Miss Creakle "
## [22] "Mr. Sharp "           "Mr. Steerforth "      "Mr. Omer "
## [25] "Mrs. Barkis "         "Mr. Micawber "        "Mrs. Micawber "
## [28] "Mr. Dolloby "         "Miss Trotwood "       "Mr. Dick "
## [31] "Mr. Richard "         "Mr. Wickfield "       "Mrs. Doctor "
## [34] "Mr. Jack Maldon "     "Mr. Maldon "          "Mrs. Strong "
## [37] "Mr. Jack "            "Mr. Tidd "            "Mrs. Markleham "
## [40] "Mrs. Heep "           "Miss Shepherd "       "Miss Larkins "
## [43] "Mr. Larkins "         "Mr. Chestle "         "Mrs. Steerforth "
## [46] "Miss Dartle "         "Miss Rosa Dartle "    "Mr. Joram "
## [49] "Mr. David "           "Miss Mowcher "        "Mrs. Bond "
## [52] "Mr. Spenlow "         "Mr. Jorkins "         "Mrs. Crupp "
## [55] "Mrs. Waterbrook "     "Mr. Waterbrook "      "Mrs. Henry Spiker "
## [58] "Mr. Henry Spiker "    "Mr. Traddles "        "Mr. Henry "
## [61] "Mrs. Henry "          "Mrs. Gulpidge "       "Mr. Gulpidge "
## [64] "Mr. Spiker "          "Miss Agnes "          "Miss Spenlow "
## [67] "Mr. Thomas "          "Mrs. Joram "          "Mr. Tiffey "
## [70] "Miss Mills "          "Mr. Mills "           "M. Miss Mills "
## [73] "Mr. Copperfull "      "Mr. Heep "            "Mr. Thomas Traddles "
## [76] "D. C. Introduced "    "Miss Spenlows "       "Miss Wickfield "
## [79] "Mrs. Crewler "        "Miss Lavinia "        "Miss Clarissa "
## [82] "Mr. James "           "Mr. Littimer "        "D. Mystery "
## [85] "Mrs. Copperfield "    "Mrs. Traddles "       "Mr. Dixon "
## [88] "Mr. W. That "         "Miss Micawber "       "Miss Caroline "
## [91] "Mrs. Murdstone "      "Mrs. Chillip "
## [1] "Hard Times"
##  [1] "Mr. James "             "Mr. Harthouse Dining " "Mr. Harthouse "
##  [4] "Mr. Gradgrind "         "Miss Josephine "       "Mr. William "
##  [7] "Mr. Bounderby "         "Mrs. Gradgrind "       "Mr. Childers "
## [10] "Mr. E. W. B. Childers " "Mr. Thomas Gradgrind " "Mr. Sleary "
## [13] "Mrs. Sparsit "          "Miss Gradgrind "       "Miss Louisa "
## [16] "Mr. Thomas "            "Mr. James Harthouse "  "Mrs. Bounderby "
## [19] "Mrs. Pegler "           "Mr. Sparsit "          "Mr. Tom "
## [1] "Dombey and Son"
##  [1] "Miss Tox "        "Miss Florence "    "Miss Floy "
##  [4] "Miss Nipper "     "Miss Susan "       "Miss Susan Nipper "
##  [7] "Miss Toodle "     "Miss Pankey "      "Miss Berry "
## [10] "Miss Blimber "    "Miss Dombey "      "Miss Toxes "
## [13] "Miss Harriet "
## [1] "Sketches by Boz      illustrative of everyday life and every-day people"
##  [1] "Miss Willises "        "Miss Willis "
##  [3] "Mr. Robinson "         "Mrs. Robinson "
##  [5] "Mr. Bung "             "Mrs. Spruggins "
##  [7] "Miss Browns "          "Mrs. Johnson "
##  [9] "Miss Johnson Parkers " "Mr. Henry "
## [11] "Mrs. Johnson Parker "  "Mrs. Walker "
## [13] "Mrs. Macklin "         "Mrs. Peplow "
## [15] "Mr. Brown "            "Miss Woolford "
```

```
##  [17] "Mr. Horner "               "Mr. Horatio "
##  [19] "Mr. Beverley "             "Mr. Blackmore "
##  [21] "Mr. Green "                "Mr. Hobler "
##  [23] "Mr. William "              "Mr. William Barker "
##  [25] "Mr. Barker "               "Mr. Smith "
##  [27] "Mr. Charles "              "Mr. James "
##  [29] "Mr. Thomas "               "Mr. Somebody "
##  [31] "Mr. Tupple "               "Mrs. Dobble "
##  [33] "Mr. Samuel Wilkins "       "Mr. Wilkins "
##  [35] "Miss Evans "               "Miss Ivinses "
##  [37] "Mr. Samuel "               "Miss Ivins "
##  [39] "Miss Jemima "              "Miss Somebody "
##  [41] "Mr. Ellis "                "Mr. John Dounce "
##  [43] "Mr. Dounce "               "Mr. Harris "
##  [45] "Mr. Jennings "             "Mr. Jones "
##  [47] "Mr. John "                 "Miss Dounces "
##  [49] "Miss Amelia Martin "       "Miss Martin "
##  [51] "Mrs. Jennings "            "Mr. Jennings Rodolph "
##  [53] "Mrs. Jennings Rodolph "    "Miss Amelia "
##  [55] "Miss Julia Montague "      "Mr. H. Taplin "
##  [57] "Mr. Augustus "             "Mr. Augustus Cooper "
##  [59] "Mr. Cooper "               "Miss Billsmethi "
##  [61] "Mr. Robert Smithers "      "Mr. Thomas Potter "
##  [63] "Mr. Potter "               "Mr. Smithers "
##  [65] "Mr. Robert "               "Mr. Thomas Smithers "
##  [67] "Mrs. Tibbs "               "Mr. Tibbs "
##  [69] "Miss Maplesones "          "Mr. Simpson "
##  [71] "Mr. Septimus "             "Mrs. Maplesone "
##  [73] "Mr. Hicks "                "Mr. Calton "
##  [75] "Mr. Septimus Hicks "       "Miss Matilda "
##  [77] "Mrs. Bloss "               "Ms. Tibbs "
##  [79] "Mr. Wisbottle "            "Mr. John Evenson "
##  [81] "Mr. Evenson "              "Mr. Alfred Tomkins "
##  [83] "Mr. Frederick "            "Mr. Tomkins "
##  [85] "Mr. Alfred "               "Mr. Bloss "
##  [87] "Dr. Wosky "                "Mr. Gobler "
##  [89] "Mrs. Gobler "              "Mr. Robins "
##  [91] "Mr. Augustus Minns "       "Mr. Octavius "
##  [93] "Mr. Budden "               "Mr. Minns "
##  [95] "Mr. Octavius Budden "      "Mrs. Budden "
##  [97] "Mrs. Amelia "              "Miss Amelia Crumpton "
##  [99] "Miss Maria Crumpton "      "Miss Maria "
## [101] "Miss Crumpton "            "Miss Brook Dingwall "
## [103] "Miss Crumptons "           "Mrs. Brook Dingwall "
## [105] "Mr. Brook Dingwall "       "Mrs. Brook "
## [107] "Miss Lavinia "             "Miss Emily "
## [109] "Miss Caroline "            "Mr. Theodosius Butler "
## [111] "Miss Brook "               "Mr. Dadson "
## [113] "Mr. Hilton "               "Miss Laetitia "
## [115] "Mr. Theodosius "           "Mr. Brook "
## [117] "Mrs. Butler "              "Mr. Joseph "
## [119] "Miss Charlotte "           "Mr. Joseph Tuggs "
## [121] "Mr. Simon "                "Mr. Tuggs "
## [123] "Mrs. Tuggs "               "Miss Tuggs "
```

```
## [125] "Mr. Simon Tuggs "          "Mr. Cymon "
## [127] "Mr. Cymon Tuggs "           "Mrs. Captain "
## [129] "Miss Charlotta Tuggs "      "Mrs. Belinda "
## [131] "Mrs. Captain Waters "       "Miss Charlotta "
## [133] "Mr. Tippin "                "Miss Teresa Malderton "
## [135] "Mrs. Malderton "            "Miss Malderton "
## [137] "Mr. Malderton "             "Mr. Horatio Sparkins "
## [139] "Miss Maldertons "           "Miss Marianne "
## [141] "Mr. Frederick Malderton "   "Mr. Sparkins "
## [143] "Miss Teresa "               "Mr. Jacob "
## [145] "Mr. Flamwell "              "Mrs. Augustus "
## [147] "Mr. Barton "                "Mr. Percy Noakes "
## [149] "Mr. Percy "                 "Mr. Hardy "
## [151] "Mrs. Taunton "              "Miss Emily Taunton "
## [153] "Miss Sophia "               "Mrs. Briggs "
## [155] "Miss Briggses "             "Miss Tauntons "
## [157] "Miss Sophia Taunton "       "Mr. Samuel Briggs "
## [159] "Mr. Alexander "             "Mr. Alexander Briggs "
## [161] "Miss Kate "                 "Miss Julia "
## [163] "Miss Julia Briggs "         "Mr. Edkins "
## [165] "Miss Wakefield "            "Mr. Alexander Trott "
## [167] "Mr. Trott "                 "Mr. Horace "
## [169] "Mr. Joseph Overton "        "Mrs. Williamson "
## [171] "Mr. Overton "               "Miss Julia Manners "
## [173] "Mr. Hunter "                "Mr. Gattleton "
## [175] "Mr. Sempronius "            "Mr. Evans "
## [177] "Mr. Harleigh "              "Mr. Sempronius Gattleton "
## [179] "Mrs. Gattleton "            "Mrs. Joseph Porter "
## [181] "Miss Emma "                 "Miss Gattletons "
## [183] "Mrs. Joseph "               "Mrs. Porter "
## [185] "Mr. Cape "                  "Mr. Watkins Tottle "
## [187] "Mr. Watkins "               "Mrs. Gabriel "
## [189] "Mr. Gabriel "               "Mr. Tottle "
## [191] "Mr. Gabriel Parsons "       "Mr. Parsons "
## [193] "Mr. Timson "                "Mrs. Gabriel Parsons "
## [195] "Miss Lillerton "            "Mrs. Parsons "
## [197] "Mr. Solomon "               "Mr. Solomon Jacobs "
## [199] "Mr. Charles Timson "        "Mrs. Timson "
## [201] "Mr. Nicodemus "             "Mr. Dumps "
## [203] "Mr. Charles Kitterbell "    "Mrs. Kitterbell "
## [205] "Mrs. Wilson "               "Mr. Danton "
## [207] "Mr. Kitterbell "            "Mr. Hopkins "
## [209] "Miss Lambert "              "Mr. Warmint "
## [211] "Mr. Thurtell "              "Mr. Blake "
## [213] "Mr. Dummins "               "Mr. Mincin "
## [215] "Mrs. Capper "               "Mrs. Watson "
## [217] "Miss Martineau "            "Mr. Hawkins "
## [219] "Mr. Felix "                 "Mrs. Nixon "
## [221] "Miss Greys "                "Miss Thompson "
## [223] "Mr. Fairfax "               "Mr. Griggins "
## [225] "Mrs. Flimkins "             "Mr. Liston "
## [227] "Mr. George Bennett "        "Mr. Baker "
## [229] "Mr. Fitz Ball "             "Mr. O. Smith "
## [231] "Mr. Balim "                 "Miss Emma Fielding "
```

```
## [233] "Mr. Etty "              "Mrs. Leaver "
## [235] "Mr. Leaver "             "Mrs. Starling "
## [237] "Mrs. Whiffler "          "Mr. Whiffler "
## [239] "Mr. Saunders "           "Mr. Jackson "
## [241] "Mrs. Bobtail "           "Mrs. Widger "
## [243] "Mr. Widger "             "Mrs. Jackson "
## [245] "Mr. Fithers "            "Mrs. Tabblewick "
## [247] "Mrs. Finching "          "Mrs. Bobtail Widger "
## [249] "Mrs. Chirrup "           "Mr. Chirrup "
## [251] "Mr. Briggs "             "Mrs. Sliverstone "
## [253] "Mr. Sliverstone "        "Mrs. Merrywinkle "
## [255] "Mrs. Chopper "           "Mr. Merrywinkle "
## [257] "Mr. Harvey "             "Mrs. Tulrumble "
## [259] "Mr. Tulrumble "          "Mr. Nicholas Tulrumble "
## [261] "Mr. Nicholas "           "Mr. Twigger "
## [263] "Mrs. Twigger "           "Mr. Woodensconce "
## [265] "D. Mechanical "          "Mr. Slug "
## [267] "Dr. Kutankumagen "       "Mr. Knight Bell "
## [269] "Mr. Ledbrain "           "Mr. Truck "
## [271] "Mr. Jobba "              "Mr. Long "
## [273] "Mr. Muddlebranes "       "Mr. Fogle "
## [275] "Mr. Coppernose "         "Mr. Blubb "
## [277] "Mr. Greenacre "          "Mr. C. J. Smith "
## [279] "Mr. Punch "              "Mr. Bolton "
## [1] "Our Mutual Friend"
##  [1] "D. The "                 "Miss Bella "
##  [3] "Miss Abbey "             "Miss Potterson "
##  [5] "Miss Lavinia "           "Miss Podsnap "
##  [7] "M. R. F. But "           "Miss Abbey Potterson "
##  [9] "M. H. F. Eugene Gaffer "  "Miss Bella Wilfer "
## [11] "Miss Wilfer "            "Miss Frederica "
## [13] "Miss Antonina "          "Miss Malvina "
## [15] "Miss Euphemia "          "Miss Peecher "
## [17] "Miss Jenny "             "Miss Wren "
## [19] "Miss Jenny Wren "        "Miss Pleasant Riderhood "
## [21] "Miss Pleasant "          "Miss Dancer "
## [23] "Miss Lavvy "             "M. And "
## [25] "Miss Harmonses "
## [1] "Barnaby Rudge"
## [1] "Miss Haredale " "Miss Dolly "    "Miss Emma "      "Miss Miggs "
## [5] "Miss Varden "   "M. But "        "D. Varden "      "Miss Dollys "
## [1] "Little Dorrit"
##  [1] "Miss Dorrit "     "Miss Wade "       "Miss Minnie "     "Miss Amy "
##  [5] "Miss Rugg "       "Miss Meagles "    "Miss Flora "      "Miss Tite "
##  [9] "Miss Amy Dorrit " "Miss Fanny "      "Mr. Dorrit "
## [1] "The Life And Adventures Of Nicholas Nickleby"
##   [1] "Mr. Squeers "           "Mr. Godfrey "
##   [3] "Mr. Godfrey Nickleby "  "Mr. Nickleby "
##   [5] "Mrs. Nickleby "         "Mr. Ralph "
##   [7] "Mr. Ralph Nickleby "    "Mr. Bonney "
##   [9] "Mrs. La "               "Miss La Creevy "
##  [11] "Miss La "               "Mr. Wackford "
##  [13] "Miss Nickleby "         "Mr. Wackford Squeers "
##  [15] "Mrs. Squeers "          "Mr. Nicholas Nickleby "
```

```
##  [17] "Mr. Noggs "            "Miss Fanny Squeers "
##  [19] "Miss Squeers "         "Miss Matilda Price "
##  [21] "Mr. John "             "Mr. Browdie "
##  [23] "Miss Price "           "Mr. Mantalini "
##  [25] "Miss Knag "            "Miss Fanny "
##  [27] "Mr. Crowl "            "Mrs. Kenwigs "
##  [29] "Mr. Kenwigs "          "Miss Morleena "
##  [31] "Miss Petowker "        "Mr. Lillyvick "
##  [33] "Mr. Newman "           "Mr. Newman Noggs "
##  [35] "Mr. Gallanbile "       "Mr. Gregsbury "
##  [37] "Mr. Pugstyles "        "Mrs. Gregsbury "
##  [39] "Mr. Johnson "          "Miss Kenwigses "
##  [41] "Miss Kenwigs "         "Miss Simmonds "
##  [43] "Miss Browndock "       "Mr. Watkins "
##  [45] "Mr. Mortimer "         "Mr. Knag "
##  [47] "Mr. Mortimer Knag "    "Mr. Pyke "
##  [49] "Mr. Snobb "            "Mr. Scaley "
##  [51] "Mr. Tix "              "Mr. Tom "
##  [53] "Mrs. Wititterly "      "Mr. Wititterly "
##  [55] "Mr. Vincent "          "Mr. Vincent Crummles "
##  [57] "Mr. Crummles "         "Mrs. Vincent "
##  [59] "Mrs. Vincent Crummles " "Miss Ninetta "
##  [61] "Mr. Folair "           "Mr. Lenville "
##  [63] "Mrs. Grudden "         "Mrs. Crummles "
##  [65] "Miss Snevellicci "     "Miss Ledrook "
##  [67] "Miss Bravassa "        "Miss Belvawney "
##  [69] "Mrs. Curdle "          "Mr. Curdle "
##  [71] "Mr. Borum "            "Miss Lane "
##  [73] "Mrs. Borum "           "Miss Ninetta Crummles "
##  [75] "Mrs. Lillyvick "       "Miss Dowdles "
##  [77] "Mrs. Nicholas "        "Mr. Pluck "
##  [79] "Mrs. Lenville "        "Mr. Digby "
##  [81] "Miss Crummles "        "Mrs. Snevellicci "
##  [83] "Mr. Snevellicci "      "Mr. Canning "
##  [85] "Mr. Smike "            "M. But "
##  [87] "Mr. Cheeryble "        "Mr. Trimmers "
##  [89] "Mr. Edwin "            "Mr. Timothy Linkinwater "
##  [91] "Mr. Lumbey "           "Mr. Timothy "
##  [93] "Mr. Linkinwater "      "Mr. Cherrybles "
##  [95] "Mr. Snawley "          "Mr. Charles Cheeryble "
##  [97] "Miss Cecilia "         "Mr. Bobster "
##  [99] "Mrs. Browdie "         "Mr. Frank "
## [101] "Mrs. John Browdie "    "Mr. Charles "
## [103] "Mrs. Arthur "          "Mrs. Arthur Gride "
## [105] "Miss Madeline "        "Mr. Bray "
## [107] "Mr. Snittle "          "Mr. Snittle Timberry "
## [109] "Mr. Timberry "         "Mr. Tim Linkinwater "
## [111] "Mr. Frank Cheeryble "  "Mrs. Sliderskew "
## [113] "Mr. Gride "            "Miss Morleena Kenwigs "
## [115] "Mr. Arthur Gride "     "Miss Bray "
## [117] "Mr. Cheerybles "       "Miss Magdalen "
## [119] "Mrs. Peg "             "Mr. Ned "
## [121] "Mrs. Frank "           "Mrs. Linkinwater "
## [1] "Life And Adventures Of Martin Chuzzlewit"
```

```
##  [1] "Miss Pecksniff "          "Miss Pecksniffs "
##  [3] "Miss Charity "             "Miss Charity Pecksniff "
##  [5] "Miss Chuzzlewits "         "Miss Mercy "
##  [7] "Miss Mercy Pecksniff "     "Miss Merry "
##  [9] "M. Todgers "               "Miss Pinch "
## [11] "M. Martin "                "Miss Norris "
## [13] "M. He "                    "Miss Cherry "
## [15] "M. Hollow "                "Miss Biffins "
## [17] "Miss Graham "              "M. It "
## [19] "Dr. Ginery "               "M. So "
## [21] "Miss Mary "
## [1] "A Tale of Two Cities        A Story of the French Revolution"
##  [1] "Mrs. Southcott "      "Mr. Jarvis "         "Mr. Lorry "
##  [4] "Miss Manette "        "Mr. Jarvis Lorry "   "Mr. Cruncher "
##  [7] "Mr. Crunches "        "Mr. Jerry Cruncher " "Mr. Stryver "
## [10] "Mr. Carton "          "Mr. Charles "        "Mr. Darnay "
## [13] "Miss Lucie "          "Miss Pross "         "Mr. Charles Darnay "
## [16] "Mr. Jeremiah "        "Mrs. Cruncher "      "Mr. Barsad "
## [19] "Mrs. Darnay "         "Mr. Jerry "
## [1] "Bleak House"
##  [1] "Mr. Bucket "               "Mrs. Snagsby Sees It All "
##  [3] "Mr. Lewes "                "Mr. Tangle "
##  [5] "Mr. Tulkinghorn "          "Mr. Kenge "
##  [7] "Mrs. Rachael "             "Miss Barbary "
##  [9] "Miss Donny "               "Mr. Jarndyce "
## [11] "Miss Esther Summerson "    "Miss Donnys "
## [13] "Miss Ada "                 "Mr. Richard Carstone "
## [15] "Mr. Richard "              "Miss Summerson "
## [17] "Mrs. Jellyby "             "Mr. Guppy "
## [19] "Miss Clare "               "Miss Jellyby "
## [21] "Mr. Jellyby "              "Mr. Krook "
## [23] "M. This "                  "M. He "
## [25] "Mr. Skimpole "             "Mr. Carstone "
## [27] "Mrs. Skimpole "            "Mrs. Rouncewell "
## [29] "Mr. Rouncewell "           "D. My "
## [31] "Mrs. Pardiggle "           "Mr. Pardiggle "
## [33] "Mr. Lawrence "             "Mr. Boythorn "
## [35] "Mr. Lawrence Boythorn "    "Mr. William "
## [37] "Mr. Snagsby "              "Mrs. Snagsby "
## [39] "Miss Flite "               "Mrs. Piper "
## [41] "Mrs. Perkins "             "Mr. Bayham "
## [43] "Mr. Badger "               "Mrs. Badger "
## [45] "Mr. Bayham Badger "        "Mrs. Bayham "
## [47] "Mrs. Bayham Badger "       "Mr. Turveydrop "
## [49] "Mr. Prince "               "Mr. Turveydrops "
## [51] "Mr. Woodcourt "            "Mr. Quale "
## [53] "Mr. Gusher "               "Mrs. Blinder "
## [55] "Mr. Gridley "              "Mr. Coavins "
## [57] "Mr. Allan Woodcourt "      "Mr. Harold "
## [59] "Mrs. Chadband "            "Mr. Chadband "
## [61] "Mr. Smallweed "            "Mr. Jobling "
## [63] "Mr. Weevle "               "Mrs. Smallweed "
## [65] "Miss Smallweed "           "Mr. George "
## [67] "Mr. Hawdon "               "Mrs. Bagnet "
```

```
## [69] "Mr. Bagnet "              "Miss Volumnia "
## [71] "Miss Jogg "               "Miss Esther "
## [73] "Mrs. Woodcourt "          "Miss Wisk "
## [75] "Mr. William Guppy "       "Mr. James George "
## [77] "Mr. J. G. Bogsby "        "Mr. Swills "
## [79] "Miss M. Melvilleson "     "Mr. Bogsby "
## [81] "Mr. Matthew "             "Mr. Matthew Bagnet "
## [83] "Miss Fitz "               "Mr. Grubble "
## [85] "Mr. Vholes "              "Mr. Daniel Dancer "
## [87] "Mr. Allan "               "Mr. Squod "
## [89] "Mr. Sangsby "             "Mr. Woodcot "
## [91] "Mr. Chadbands "           "Mrs. Bucket "
## [93] "Mr. C. Indeed "           "Mr. C. Without "
## [95] "Miss Dedlock "            "Mr. Tony Weevle "
## [97] "Mr. Sladdery "            "Mrs. Richard "
## [99] "Mrs. Guppy "
## [1] "A Christmas Carol"
## [1] "Mr. Marley "          "Mr. Ebenezer Scrooge " "Mrs. Fezziwig "
## [4] "Mr. Scrooge "         "Mrs. Cratchit "        "Miss Belinda "
## [7] "Mrs. Dilber "
## [1] "Oliver Twist"
##  [1] "Mr. Bumble "        "Mrs. Mann "        "Mr. Gamfield "
##  [4] "Mr. Limbkins "      "Mr. Sowerberry "    "Mrs. Sowerberry "
##  [7] "Mr. Claypole "      "Mr. Charles Bates " "Mr. Fang "
## [10] "Mr. Brownlow "      "Mrs. Bedwin "       "Mr. Dawkins "
## [13] "Mr. Fagin "         "Mr. Sikes "         "Mr. William "
## [16] "Miss Nancy "        "Mr. Bill Sikes "    "Mr. Grimwig "
## [19] "Mr. John "          "Mr. Chitling "      "Miss Betsy "
## [22] "Mr. Crackit "       "Mr. Toby Crackit "  "Mrs. Corney "
## [25] "Mr. Corney "        "Mr. Slout "         "Mr. Noah Claypole "
## [28] "Mr. Giles "         "Mr. Losberne "      "Mr. Blathers "
## [31] "Mrs. Maylie "       "Mr. Chickweed "     "Mr. Conkey "
## [34] "Miss Rose "         "Mr. Maylie "        "Miss Maylie "
## [37] "Mrs. Bumble "       "Mr. Monks "         "Mr. John Dawkins "
## [40] "Mr. Browlow "       "Mr. Morris "        "Mr. Bolter "
## [43] "Mr. Noah "
```