Assignment 1

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January 18, 2019

library(binom)

## Warning: package 'binom' was built under R version 3.5.2

library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

# Lecture 3

1. There are n identical trails. This is satisfied, since each observation was recorded at the same town, same intersection, within one-half an hour time range.
2. There are 2 possible outcomes. This is satisfied, because the car is either alternative fuel using or not.
3. Each trail is independent to others. This condition is satisfied, because the type of one car does not affect the type of next car being observed.
4. The possibility of success remains constant through trails. This condition holds, because this is not likely to be affected by excluded measures.
5. The random variable of interest W is number of success. Satisfied, in this experiment , W=14.

alpha <- 0.05  
w <- 14  
n <- 125  
chop <- c("agresti-coull", "asymptotic", "wilson", "exact")  
binom.confint(x = w, n = n, conf.level = 1-alpha, methods = "all") %>% filter(method %in% chop) -> CI1  
CI1

## method x n mean lower upper  
## 1 agresti-coull 14 125 0.112 0.06674422 0.1803925  
## 2 asymptotic 14 125 0.112 0.05671484 0.1672852  
## 3 exact 14 125 0.112 0.06260138 0.1807736  
## 4 wilson 14 125 0.112 0.06789839 0.1792384

1. Use 2-sided Score test H0: pi = 0.08 Ha: pi != 0.08

pi.0 = 0.08  
prop.test(x=w, n=n, p = pi.0, alternative="two.sided", correct=FALSE) #2-sided Score test

##   
## 1-sample proportions test without continuity correction  
##   
## data: w out of n, null probability pi.0  
## X-squared = 1.7391, df = 1, p-value = 0.1872  
## alternative hypothesis: true p is not equal to 0.08  
## 95 percent confidence interval:  
## 0.06789839 0.17923836  
## sample estimates:  
## p   
## 0.112

We fail to reject H0, so we cannot conclude the probability in this intersection is differ from nationwide probability.

alpha <- 0.05  
w2 <- 79  
n2 <- 80  
pi.hat2 <- w2/n2  
var.pi.hat2 <- pi.hat2\*(1-pi.hat2)/n  
pi2.0 = 1

binom.confint(x = w2, n = n2, conf.level = 1-alpha, methods = "asymptotic")

## method x n mean lower upper  
## 1 asymptotic 79 80 0.9875 0.9631541 1.011846

Wald CI: [0.963 - 1.011]. We except 95% of similarly constructed intervals to contain the true probability of a randomly selected resident to oppose the tax.

binom.confint(x = w2, n = n2, conf.level = 1-alpha, methods = "wilson")

## method x n mean lower upper  
## 1 wilson 79 80 0.9875 0.9325373 0.99779

Wilson CI: [0.933 - 0.998]. We expect 95% of similarly constructed intervals to contain the parameter pi which represents the true probability of a randomly selected resident to oppose the tax.

1. We can testify this by performing Score test. H0: pi = 1, Ha: pi < 1

(Z0 = (pi.hat2 - pi2.0)/sqrt(0.5\*0.5/n2))

## [1] -0.2236068

(pv.score <- pnorm(Z0)) #lower tail p-value

## [1] 0.4115316

Base on p value we fail to reject H0, so it is possible for pi = 1.

1. I prefer the Wilson CI, as it is constructed using the pi from null hypothesis instead of sample, and the sample size is rather small in this case, so Wilson would perform better.

n.L <- 1000 #large sample  
n.S <- 10 #small sample  
w.L <- 0:n.L  
w.S <- 0:n.S

*Large sample*

CI.L <- binom.confint(x = w.L, n = n.L, conf.level = 1-alpha, methods = c("asymptotic", "agresti-coull", "wilson", "exact"))  
(CI.L.wald <- filter(CI.L, method == "asymptotic"))#Wald CIs

## method x n mean lower upper  
## 1 asymptotic 0 1000 0.000 0.000000e+00 0.000000000  
## 2 asymptotic 1 1000 0.001 -9.589838e-04 0.002958984  
## 3 asymptotic 2 1000 0.002 -7.690345e-04 0.004769034  
## 4 asymptotic 3 1000 0.003 -3.896612e-04 0.006389661  
## 5 asymptotic 4 1000 0.004 8.791974e-05 0.007912080  
## 6 asymptotic 5 1000 0.005 6.283576e-04 0.009371642  
## 7 asymptotic 6 1000 0.006 1.213513e-03 0.010786487  
## 8 asymptotic 7 1000 0.007 1.832604e-03 0.012167396  
## 9 asymptotic 8 1000 0.008 2.478604e-03 0.013521396  
## 10 asymptotic 9 1000 0.009 3.146627e-03 0.014853373  
## 11 asymptotic 10 1000 0.010 3.833117e-03 0.016166883  
## 12 asymptotic 11 1000 0.011 4.535386e-03 0.017464614  
## 13 asymptotic 12 1000 0.012 5.251346e-03 0.018748654  
## 14 asymptotic 13 1000 0.013 5.979333e-03 0.020020667  
## 15 asymptotic 14 1000 0.014 6.718002e-03 0.021281998  
## 16 asymptotic 15 1000 0.015 7.466239e-03 0.022533761  
## 17 asymptotic 16 1000 0.016 8.223116e-03 0.023776884  
## 18 asymptotic 17 1000 0.017 8.987846e-03 0.025012154  
## 19 asymptotic 18 1000 0.018 9.759756e-03 0.026240244  
## 20 asymptotic 19 1000 0.019 1.053827e-02 0.027461735  
## 21 asymptotic 20 1000 0.020 1.132287e-02 0.028677130  
## 22 asymptotic 21 1000 0.021 1.211312e-02 0.029886875  
## 23 asymptotic 22 1000 0.022 1.290864e-02 0.031091360  
## 24 asymptotic 23 1000 0.023 1.370907e-02 0.032290932  
## 25 asymptotic 24 1000 0.024 1.451410e-02 0.033485902  
## 26 asymptotic 25 1000 0.025 1.532345e-02 0.034676547  
## 27 asymptotic 26 1000 0.026 1.613688e-02 0.035863118  
## 28 asymptotic 27 1000 0.027 1.695416e-02 0.037045843  
## 29 asymptotic 28 1000 0.028 1.777507e-02 0.038224928  
## 30 asymptotic 29 1000 0.029 1.859944e-02 0.039400560  
## 31 asymptotic 30 1000 0.030 1.942709e-02 0.040572911  
## 32 asymptotic 31 1000 0.031 2.025786e-02 0.041742140  
## 33 asymptotic 32 1000 0.032 2.109161e-02 0.042908393  
## 34 asymptotic 33 1000 0.033 2.192820e-02 0.044071802  
## 35 asymptotic 34 1000 0.034 2.276751e-02 0.045232492  
## 36 asymptotic 35 1000 0.035 2.360942e-02 0.046390578  
## 37 asymptotic 36 1000 0.036 2.445383e-02 0.047546168  
## 38 asymptotic 37 1000 0.037 2.530064e-02 0.048699360  
## 39 asymptotic 38 1000 0.038 2.614975e-02 0.049850248  
## 40 asymptotic 39 1000 0.039 2.700108e-02 0.050998918  
## 41 asymptotic 40 1000 0.040 2.785455e-02 0.052145453  
## 42 asymptotic 41 1000 0.041 2.871007e-02 0.053289928  
## 43 asymptotic 42 1000 0.042 2.956759e-02 0.054432415  
## 44 asymptotic 43 1000 0.043 3.042702e-02 0.055572982  
## 45 asymptotic 44 1000 0.044 3.128831e-02 0.056711692  
## 46 asymptotic 45 1000 0.045 3.215139e-02 0.057848607  
## 47 asymptotic 46 1000 0.046 3.301622e-02 0.058983781  
## 48 asymptotic 47 1000 0.047 3.388273e-02 0.060117270  
## 49 asymptotic 48 1000 0.048 3.475088e-02 0.061249125  
## 50 asymptotic 49 1000 0.049 3.562061e-02 0.062379392  
## 51 asymptotic 50 1000 0.050 3.649188e-02 0.063508120  
## 52 asymptotic 51 1000 0.051 3.736465e-02 0.064635350  
## 53 asymptotic 52 1000 0.052 3.823888e-02 0.065761125  
## 54 asymptotic 53 1000 0.053 3.911452e-02 0.066885484  
## 55 asymptotic 54 1000 0.054 3.999154e-02 0.068008465  
## 56 asymptotic 55 1000 0.055 4.086990e-02 0.069130103  
## 57 asymptotic 56 1000 0.056 4.174957e-02 0.070250434  
## 58 asymptotic 57 1000 0.057 4.263051e-02 0.071369490  
## 59 asymptotic 58 1000 0.058 4.351270e-02 0.072487303  
## 60 asymptotic 59 1000 0.059 4.439610e-02 0.073603902  
## 61 asymptotic 60 1000 0.060 4.528068e-02 0.074719316  
## 62 asymptotic 61 1000 0.061 4.616643e-02 0.075833574  
## 63 asymptotic 62 1000 0.062 4.705330e-02 0.076946701  
## 64 asymptotic 63 1000 0.063 4.794128e-02 0.078058724  
## 65 asymptotic 64 1000 0.064 4.883033e-02 0.079169665  
## 66 asymptotic 65 1000 0.065 4.972045e-02 0.080279550  
## 67 asymptotic 66 1000 0.066 5.061160e-02 0.081388401  
## 68 asymptotic 67 1000 0.067 5.150376e-02 0.082496239  
## 69 asymptotic 68 1000 0.068 5.239691e-02 0.083603086  
## 70 asymptotic 69 1000 0.069 5.329104e-02 0.084708962  
## 71 asymptotic 70 1000 0.070 5.418611e-02 0.085813885  
## 72 asymptotic 71 1000 0.071 5.508212e-02 0.086917876  
## 73 asymptotic 72 1000 0.072 5.597905e-02 0.088020952  
## 74 asymptotic 73 1000 0.073 5.687687e-02 0.089123131  
## 75 asymptotic 74 1000 0.074 5.777557e-02 0.090224430  
## 76 asymptotic 75 1000 0.075 5.867514e-02 0.091324865  
## 77 asymptotic 76 1000 0.076 5.957555e-02 0.092424451  
## 78 asymptotic 77 1000 0.077 6.047679e-02 0.093523205  
## 79 asymptotic 78 1000 0.078 6.137886e-02 0.094621142  
## 80 asymptotic 79 1000 0.079 6.228173e-02 0.095718275  
## 81 asymptotic 80 1000 0.080 6.318538e-02 0.096814618  
## 82 asymptotic 81 1000 0.081 6.408982e-02 0.097910185  
## 83 asymptotic 82 1000 0.082 6.499501e-02 0.099004989  
## 84 asymptotic 83 1000 0.083 6.590096e-02 0.100099043  
## 85 asymptotic 84 1000 0.084 6.680764e-02 0.101192359  
## 86 asymptotic 85 1000 0.085 6.771505e-02 0.102284949  
## 87 asymptotic 86 1000 0.086 6.862318e-02 0.103376824  
## 88 asymptotic 87 1000 0.087 6.953200e-02 0.104467997  
## 89 asymptotic 88 1000 0.088 7.044152e-02 0.105558477  
## 90 asymptotic 89 1000 0.089 7.135172e-02 0.106648276  
## 91 asymptotic 90 1000 0.090 7.226260e-02 0.107737403  
## 92 asymptotic 91 1000 0.091 7.317413e-02 0.108825870  
## 93 asymptotic 92 1000 0.092 7.408632e-02 0.109913685  
## 94 asymptotic 93 1000 0.093 7.499914e-02 0.111000858  
## 95 asymptotic 94 1000 0.094 7.591260e-02 0.112087399  
## 96 asymptotic 95 1000 0.095 7.682668e-02 0.113173316  
## 97 asymptotic 96 1000 0.096 7.774138e-02 0.114258619  
## 98 asymptotic 97 1000 0.097 7.865668e-02 0.115343315  
## 99 asymptotic 98 1000 0.098 7.957259e-02 0.116427414  
## 100 asymptotic 99 1000 0.099 8.048908e-02 0.117510923  
## 101 asymptotic 100 1000 0.100 8.140615e-02 0.118593851  
## 102 asymptotic 101 1000 0.101 8.232380e-02 0.119676205  
## 103 asymptotic 102 1000 0.102 8.324201e-02 0.120757992  
## 104 asymptotic 103 1000 0.103 8.416078e-02 0.121839220  
## 105 asymptotic 104 1000 0.104 8.508010e-02 0.122919897  
## 106 asymptotic 105 1000 0.105 8.599997e-02 0.124000029  
## 107 asymptotic 106 1000 0.106 8.692038e-02 0.125079623  
## 108 asymptotic 107 1000 0.107 8.784131e-02 0.126158686  
## 109 asymptotic 108 1000 0.108 8.876278e-02 0.127237224  
## 110 asymptotic 109 1000 0.109 8.968476e-02 0.128315244  
## 111 asymptotic 110 1000 0.110 9.060725e-02 0.129392752  
## 112 asymptotic 111 1000 0.111 9.153025e-02 0.130469754  
## 113 asymptotic 112 1000 0.112 9.245374e-02 0.131546256  
## 114 asymptotic 113 1000 0.113 9.337774e-02 0.132622264  
## 115 asymptotic 114 1000 0.114 9.430222e-02 0.133697784  
## 116 asymptotic 115 1000 0.115 9.522718e-02 0.134772822  
## 117 asymptotic 116 1000 0.116 9.615262e-02 0.135847382  
## 118 asymptotic 117 1000 0.117 9.707853e-02 0.136921470  
## 119 asymptotic 118 1000 0.118 9.800491e-02 0.137995091  
## 120 asymptotic 119 1000 0.119 9.893175e-02 0.139068251  
## 121 asymptotic 120 1000 0.120 9.985905e-02 0.140140955  
## 122 asymptotic 121 1000 0.121 1.007868e-01 0.141213207  
## 123 asymptotic 122 1000 0.122 1.017150e-01 0.142285012  
## 124 asymptotic 123 1000 0.123 1.026436e-01 0.143356375  
## 125 asymptotic 124 1000 0.124 1.035727e-01 0.144427301  
## 126 asymptotic 125 1000 0.125 1.045022e-01 0.145497794  
## 127 asymptotic 126 1000 0.126 1.054321e-01 0.146567859  
## 128 asymptotic 127 1000 0.127 1.063625e-01 0.147637499  
## 129 asymptotic 128 1000 0.128 1.072933e-01 0.148706720  
## 130 asymptotic 129 1000 0.129 1.082245e-01 0.149775526  
## 131 asymptotic 130 1000 0.130 1.091561e-01 0.150843920  
## 132 asymptotic 131 1000 0.131 1.100881e-01 0.151911906  
## 133 asymptotic 132 1000 0.132 1.110205e-01 0.152979490  
## 134 asymptotic 133 1000 0.133 1.119533e-01 0.154046673  
## 135 asymptotic 134 1000 0.134 1.128865e-01 0.155113461  
## 136 asymptotic 135 1000 0.135 1.138201e-01 0.156179857  
## 137 asymptotic 136 1000 0.136 1.147541e-01 0.157245865  
## 138 asymptotic 137 1000 0.137 1.156885e-01 0.158311488  
## 139 asymptotic 138 1000 0.138 1.166233e-01 0.159376730  
## 140 asymptotic 139 1000 0.139 1.175584e-01 0.160441594  
## 141 asymptotic 140 1000 0.140 1.184939e-01 0.161506084  
## 142 asymptotic 141 1000 0.141 1.194298e-01 0.162570203  
## 143 asymptotic 142 1000 0.142 1.203660e-01 0.163633954  
## 144 asymptotic 143 1000 0.143 1.213027e-01 0.164697341  
## 145 asymptotic 144 1000 0.144 1.222396e-01 0.165760367  
## 146 asymptotic 145 1000 0.145 1.231770e-01 0.166823035  
## 147 asymptotic 146 1000 0.146 1.241147e-01 0.167885348  
## 148 asymptotic 147 1000 0.147 1.250527e-01 0.168947309  
## 149 asymptotic 148 1000 0.148 1.259911e-01 0.170008921  
## 150 asymptotic 149 1000 0.149 1.269298e-01 0.171070187  
## 151 asymptotic 150 1000 0.150 1.278689e-01 0.172131109  
## 152 asymptotic 151 1000 0.151 1.288083e-01 0.173191692  
## 153 asymptotic 152 1000 0.152 1.297481e-01 0.174251936  
## 154 asymptotic 153 1000 0.153 1.306882e-01 0.175311846  
## 155 asymptotic 154 1000 0.154 1.316286e-01 0.176371424  
## 156 asymptotic 155 1000 0.155 1.325693e-01 0.177430673  
## 157 asymptotic 156 1000 0.156 1.335104e-01 0.178489594  
## 158 asymptotic 157 1000 0.157 1.344518e-01 0.179548191  
## 159 asymptotic 158 1000 0.158 1.353935e-01 0.180606466  
## 160 asymptotic 159 1000 0.159 1.363356e-01 0.181664422  
## 161 asymptotic 160 1000 0.160 1.372779e-01 0.182722061  
## 162 asymptotic 161 1000 0.161 1.382206e-01 0.183779386  
## 163 asymptotic 162 1000 0.162 1.391636e-01 0.184836398  
## 164 asymptotic 163 1000 0.163 1.401069e-01 0.185893101  
## 165 asymptotic 164 1000 0.164 1.410505e-01 0.186949496  
## 166 asymptotic 165 1000 0.165 1.419944e-01 0.188005586  
## 167 asymptotic 166 1000 0.166 1.429386e-01 0.189061373  
## 168 asymptotic 167 1000 0.167 1.438831e-01 0.190116859  
## 169 asymptotic 168 1000 0.168 1.448280e-01 0.191172047  
## 170 asymptotic 169 1000 0.169 1.457731e-01 0.192226938  
## 171 asymptotic 170 1000 0.170 1.467185e-01 0.193281534  
## 172 asymptotic 171 1000 0.171 1.476642e-01 0.194335839  
## 173 asymptotic 172 1000 0.172 1.486101e-01 0.195389852  
## 174 asymptotic 173 1000 0.173 1.495564e-01 0.196443578  
## 175 asymptotic 174 1000 0.174 1.505030e-01 0.197497017  
## 176 asymptotic 175 1000 0.175 1.514498e-01 0.198550172  
## 177 asymptotic 176 1000 0.176 1.523970e-01 0.199603045  
## 178 asymptotic 177 1000 0.177 1.533444e-01 0.200655637  
## 179 asymptotic 178 1000 0.178 1.542921e-01 0.201707950  
## 180 asymptotic 179 1000 0.179 1.552400e-01 0.202759986  
## 181 asymptotic 180 1000 0.180 1.561883e-01 0.203811748  
## 182 asymptotic 181 1000 0.181 1.571368e-01 0.204863236  
## 183 asymptotic 182 1000 0.182 1.580855e-01 0.205914452  
## 184 asymptotic 183 1000 0.183 1.590346e-01 0.206965399  
## 185 asymptotic 184 1000 0.184 1.599839e-01 0.208016078  
## 186 asymptotic 185 1000 0.185 1.609335e-01 0.209066490  
## 187 asymptotic 186 1000 0.186 1.618834e-01 0.210116638  
## 188 asymptotic 187 1000 0.187 1.628335e-01 0.211166523  
## 189 asymptotic 188 1000 0.188 1.637839e-01 0.212216146  
## 190 asymptotic 189 1000 0.189 1.647345e-01 0.213265510  
## 191 asymptotic 190 1000 0.190 1.656854e-01 0.214314615  
## 192 asymptotic 191 1000 0.191 1.666365e-01 0.215363464  
## 193 asymptotic 192 1000 0.192 1.675879e-01 0.216412058  
## 194 asymptotic 193 1000 0.193 1.685396e-01 0.217460398  
## 195 asymptotic 194 1000 0.194 1.694915e-01 0.218508486  
## 196 asymptotic 195 1000 0.195 1.704437e-01 0.219556323  
## 197 asymptotic 196 1000 0.196 1.713961e-01 0.220603911  
## 198 asymptotic 197 1000 0.197 1.723487e-01 0.221651252  
## 199 asymptotic 198 1000 0.198 1.733017e-01 0.222698346  
## 200 asymptotic 199 1000 0.199 1.742548e-01 0.223745195  
## 201 asymptotic 200 1000 0.200 1.752082e-01 0.224791801  
## 202 asymptotic 201 1000 0.201 1.761618e-01 0.225838165  
## 203 asymptotic 202 1000 0.202 1.771157e-01 0.226884288  
## 204 asymptotic 203 1000 0.203 1.780698e-01 0.227930172  
## 205 asymptotic 204 1000 0.204 1.790242e-01 0.228975817  
## 206 asymptotic 205 1000 0.205 1.799788e-01 0.230021226  
## 207 asymptotic 206 1000 0.206 1.809336e-01 0.231066399  
## 208 asymptotic 207 1000 0.207 1.818887e-01 0.232111338  
## 209 asymptotic 208 1000 0.208 1.828440e-01 0.233156044  
## 210 asymptotic 209 1000 0.209 1.837995e-01 0.234200518  
## 211 asymptotic 210 1000 0.210 1.847552e-01 0.235244762  
## 212 asymptotic 211 1000 0.211 1.857112e-01 0.236288777  
## 213 asymptotic 212 1000 0.212 1.866674e-01 0.237332563  
## 214 asymptotic 213 1000 0.213 1.876239e-01 0.238376122  
## 215 asymptotic 214 1000 0.214 1.885805e-01 0.239419456  
## 216 asymptotic 215 1000 0.215 1.895374e-01 0.240462565  
## 217 asymptotic 216 1000 0.216 1.904945e-01 0.241505450  
## 218 asymptotic 217 1000 0.217 1.914519e-01 0.242548114  
## 219 asymptotic 218 1000 0.218 1.924094e-01 0.243590556  
## 220 asymptotic 219 1000 0.219 1.933672e-01 0.244632777  
## 221 asymptotic 220 1000 0.220 1.943252e-01 0.245674780  
## 222 asymptotic 221 1000 0.221 1.952834e-01 0.246716565  
## 223 asymptotic 222 1000 0.222 1.962419e-01 0.247758133  
## 224 asymptotic 223 1000 0.223 1.972005e-01 0.248799485  
## 225 asymptotic 224 1000 0.224 1.981594e-01 0.249840622  
## 226 asymptotic 225 1000 0.225 1.991185e-01 0.250881545  
## 227 asymptotic 226 1000 0.226 2.000777e-01 0.251922256  
## 228 asymptotic 227 1000 0.227 2.010372e-01 0.252962754  
## 229 asymptotic 228 1000 0.228 2.019970e-01 0.254003042  
## 230 asymptotic 229 1000 0.229 2.029569e-01 0.255043121  
## 231 asymptotic 230 1000 0.230 2.039170e-01 0.256082990  
## 232 asymptotic 231 1000 0.231 2.048773e-01 0.257122651  
## 233 asymptotic 232 1000 0.232 2.058379e-01 0.258162106  
## 234 asymptotic 233 1000 0.233 2.067986e-01 0.259201354  
## 235 asymptotic 234 1000 0.234 2.077596e-01 0.260240397  
## 236 asymptotic 235 1000 0.235 2.087208e-01 0.261279236  
## 237 asymptotic 236 1000 0.236 2.096821e-01 0.262317872  
## 238 asymptotic 237 1000 0.237 2.106437e-01 0.263356306  
## 239 asymptotic 238 1000 0.238 2.116055e-01 0.264394537  
## 240 asymptotic 239 1000 0.239 2.125674e-01 0.265432569  
## 241 asymptotic 240 1000 0.240 2.135296e-01 0.266470400  
## 242 asymptotic 241 1000 0.241 2.144920e-01 0.267508033  
## 243 asymptotic 242 1000 0.242 2.154545e-01 0.268545467  
## 244 asymptotic 243 1000 0.243 2.164173e-01 0.269582705  
## 245 asymptotic 244 1000 0.244 2.173803e-01 0.270619746  
## 246 asymptotic 245 1000 0.245 2.183434e-01 0.271656591  
## 247 asymptotic 246 1000 0.246 2.193068e-01 0.272693242  
## 248 asymptotic 247 1000 0.247 2.202703e-01 0.273729698  
## 249 asymptotic 248 1000 0.248 2.212340e-01 0.274765962  
## 250 asymptotic 249 1000 0.249 2.221980e-01 0.275802033  
## 251 asymptotic 250 1000 0.250 2.231621e-01 0.276837912  
## 252 asymptotic 251 1000 0.251 2.241264e-01 0.277873601  
## 253 asymptotic 252 1000 0.252 2.250909e-01 0.278909099  
## 254 asymptotic 253 1000 0.253 2.260556e-01 0.279944408  
## 255 asymptotic 254 1000 0.254 2.270205e-01 0.280979529  
## 256 asymptotic 255 1000 0.255 2.279855e-01 0.282014462  
## 257 asymptotic 256 1000 0.256 2.289508e-01 0.283049207  
## 258 asymptotic 257 1000 0.257 2.299162e-01 0.284083766  
## 259 asymptotic 258 1000 0.258 2.308819e-01 0.285118140  
## 260 asymptotic 259 1000 0.259 2.318477e-01 0.286152328  
## 261 asymptotic 260 1000 0.260 2.328137e-01 0.287186333  
## 262 asymptotic 261 1000 0.261 2.337798e-01 0.288220153  
## 263 asymptotic 262 1000 0.262 2.347462e-01 0.289253791  
## 264 asymptotic 263 1000 0.263 2.357128e-01 0.290287246  
## 265 asymptotic 264 1000 0.264 2.366795e-01 0.291320520  
## 266 asymptotic 265 1000 0.265 2.376464e-01 0.292353613  
## 267 asymptotic 266 1000 0.266 2.386135e-01 0.293386526  
## 268 asymptotic 267 1000 0.267 2.395807e-01 0.294419259  
## 269 asymptotic 268 1000 0.268 2.405482e-01 0.295451813  
## 270 asymptotic 269 1000 0.269 2.415158e-01 0.296484189  
## 271 asymptotic 270 1000 0.270 2.424836e-01 0.297516387  
## 272 asymptotic 271 1000 0.271 2.434516e-01 0.298548408  
## 273 asymptotic 272 1000 0.272 2.444197e-01 0.299580252  
## 274 asymptotic 273 1000 0.273 2.453881e-01 0.300611921  
## 275 asymptotic 274 1000 0.274 2.463566e-01 0.301643414  
## 276 asymptotic 275 1000 0.275 2.473253e-01 0.302674733  
## 277 asymptotic 276 1000 0.276 2.482941e-01 0.303705878  
## 278 asymptotic 277 1000 0.277 2.492632e-01 0.304736849  
## 279 asymptotic 278 1000 0.278 2.502324e-01 0.305767648  
## 280 asymptotic 279 1000 0.279 2.512017e-01 0.306798274  
## 281 asymptotic 280 1000 0.280 2.521713e-01 0.307828728  
## 282 asymptotic 281 1000 0.281 2.531410e-01 0.308859011  
## 283 asymptotic 282 1000 0.282 2.541109e-01 0.309889124  
## 284 asymptotic 283 1000 0.283 2.550809e-01 0.310919066  
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## 921 asymptotic 920 1000 0.920 9.031854e-01 0.936814618  
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## 927 asymptotic 926 1000 0.926 9.097756e-01 0.942224430  
## 928 asymptotic 927 1000 0.927 9.108769e-01 0.943123131  
## 929 asymptotic 928 1000 0.928 9.119790e-01 0.944020952  
## 930 asymptotic 929 1000 0.929 9.130821e-01 0.944917876  
## 931 asymptotic 930 1000 0.930 9.141861e-01 0.945813885  
## 932 asymptotic 931 1000 0.931 9.152910e-01 0.946708962  
## 933 asymptotic 932 1000 0.932 9.163969e-01 0.947603086  
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## 936 asymptotic 935 1000 0.935 9.197204e-01 0.950279550  
## 937 asymptotic 936 1000 0.936 9.208303e-01 0.951169665  
## 938 asymptotic 937 1000 0.937 9.219413e-01 0.952058724  
## 939 asymptotic 938 1000 0.938 9.230533e-01 0.952946701  
## 940 asymptotic 939 1000 0.939 9.241664e-01 0.953833574  
## 941 asymptotic 940 1000 0.940 9.252807e-01 0.954719316  
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## 949 asymptotic 948 1000 0.948 9.342389e-01 0.961761125  
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## 969 asymptotic 968 1000 0.968 9.570916e-01 0.978908393  
## 970 asymptotic 969 1000 0.969 9.582579e-01 0.979742140  
## 971 asymptotic 970 1000 0.970 9.594271e-01 0.980572911  
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## 975 asymptotic 974 1000 0.974 9.641369e-01 0.983863118  
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## 977 asymptotic 976 1000 0.976 9.665141e-01 0.985485902  
## 978 asymptotic 977 1000 0.977 9.677091e-01 0.986290932  
## 979 asymptotic 978 1000 0.978 9.689086e-01 0.987091360  
## 980 asymptotic 979 1000 0.979 9.701131e-01 0.987886875  
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## 989 asymptotic 988 1000 0.988 9.812513e-01 0.994748654  
## 990 asymptotic 989 1000 0.989 9.825354e-01 0.995464614  
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## 992 asymptotic 991 1000 0.991 9.851466e-01 0.996853373  
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## 996 asymptotic 995 1000 0.995 9.906284e-01 0.999371642  
## 997 asymptotic 996 1000 0.996 9.920879e-01 0.999912080  
## 998 asymptotic 997 1000 0.997 9.936103e-01 1.000389661  
## 999 asymptotic 998 1000 0.998 9.952310e-01 1.000769034  
## 1000 asymptotic 999 1000 0.999 9.970410e-01 1.000958984  
## 1001 asymptotic 1000 1000 1.000 1.000000e+00 1.000000000

(CI.L.ac <- filter(CI.L, method =="agresti-coull"))#agresti-coill CIs

## method x n mean lower upper  
## 1 agresti-coull 0 1000 0.000 -7.899577e-04 0.004616716  
## 2 agresti-coull 1 1000 0.001 -4.223778e-04 0.006241483  
## 3 agresti-coull 2 1000 0.002 4.724247e-05 0.007764209  
## 4 agresti-coull 3 1000 0.003 5.814324e-04 0.009222366  
## 5 agresti-coull 4 1000 0.004 1.161262e-03 0.010634883  
## 6 agresti-coull 5 1000 0.005 1.775581e-03 0.012012910  
## 7 agresti-coull 6 1000 0.006 2.417168e-03 0.013363670  
## 8 agresti-coull 7 1000 0.007 3.081023e-03 0.014692161  
## 9 agresti-coull 8 1000 0.008 3.763517e-03 0.016002013  
## 10 agresti-coull 9 1000 0.009 4.461917e-03 0.017295960  
## 11 agresti-coull 10 1000 0.010 5.174101e-03 0.018576122  
## 12 agresti-coull 11 1000 0.011 5.898386e-03 0.019844184  
## 13 agresti-coull 12 1000 0.012 6.633407e-03 0.021101510  
## 14 agresti-coull 13 1000 0.013 7.378039e-03 0.022349224  
## 15 agresti-coull 14 1000 0.014 8.131345e-03 0.023588264  
## 16 agresti-coull 15 1000 0.015 8.892531e-03 0.024819425  
## 17 agresti-coull 16 1000 0.016 9.660919e-03 0.026043383  
## 18 agresti-coull 17 1000 0.017 1.043592e-02 0.027260726  
## 19 agresti-coull 18 1000 0.018 1.121704e-02 0.028471960  
## 20 agresti-coull 19 1000 0.019 1.200381e-02 0.029677533  
## 21 agresti-coull 20 1000 0.020 1.279585e-02 0.030877837  
## 22 agresti-coull 21 1000 0.021 1.359281e-02 0.032073222  
## 23 agresti-coull 22 1000 0.022 1.439438e-02 0.033263999  
## 24 agresti-coull 23 1000 0.023 1.520028e-02 0.034450448  
## 25 agresti-coull 24 1000 0.024 1.601025e-02 0.035632821  
## 26 agresti-coull 25 1000 0.025 1.682408e-02 0.036811345  
## 27 agresti-coull 26 1000 0.026 1.764154e-02 0.037986228  
## 28 agresti-coull 27 1000 0.027 1.846246e-02 0.039157658  
## 29 agresti-coull 28 1000 0.028 1.928665e-02 0.040325807  
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## 31 agresti-coull 30 1000 0.030 2.094427e-02 0.042652887  
## 32 agresti-coull 31 1000 0.031 2.177740e-02 0.043812096  
## 33 agresti-coull 32 1000 0.032 2.261326e-02 0.044968589  
## 34 agresti-coull 33 1000 0.033 2.345171e-02 0.046122479  
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## 996 agresti-coull 995 1000 0.995 9.879871e-01 0.998224419  
## 997 agresti-coull 996 1000 0.996 9.893651e-01 0.998838738  
## 998 agresti-coull 997 1000 0.997 9.907776e-01 0.999418568  
## 999 agresti-coull 998 1000 0.998 9.922358e-01 0.999952758  
## 1000 agresti-coull 999 1000 0.999 9.937585e-01 1.000422378  
## 1001 agresti-coull 1000 1000 1.000 9.953833e-01 1.000789958

(CI.L.s <- filter(CI.L, method == "wilson"))#score CIs

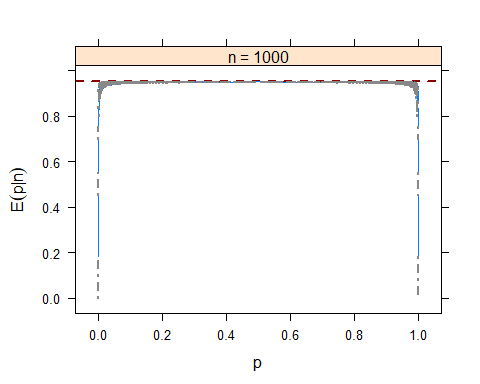
## method x n mean lower upper  
## 1 wilson 0 1000 0.000 2.160106e-19 0.003826758  
## 2 wilson 1 1000 0.001 1.765464e-04 0.005642559  
## 3 wilson 2 1000 0.002 5.486436e-04 0.007262808  
## 4 wilson 3 1000 0.003 1.020784e-03 0.008783014  
## 5 wilson 4 1000 0.004 1.556588e-03 0.010239556  
## 6 wilson 5 1000 0.005 2.137536e-03 0.011650955  
## 7 wilson 6 1000 0.006 2.752669e-03 0.013028168  
## 8 wilson 7 1000 0.007 3.394868e-03 0.014378315  
## 9 wilson 8 1000 0.008 4.059196e-03 0.015706335  
## 10 wilson 9 1000 0.009 4.742061e-03 0.017015816  
## 11 wilson 10 1000 0.010 5.440754e-03 0.018309469  
## 12 wilson 11 1000 0.011 6.153174e-03 0.019589396  
## 13 wilson 12 1000 0.012 6.877648e-03 0.020857268  
## 14 wilson 13 1000 0.013 7.612820e-03 0.022114442  
## 15 wilson 14 1000 0.014 8.357575e-03 0.023362034  
## 16 wilson 15 1000 0.015 9.110979e-03 0.024600977  
## 17 wilson 16 1000 0.016 9.872242e-03 0.025832060  
## 18 wilson 17 1000 0.017 1.064069e-02 0.027055959  
## 19 wilson 18 1000 0.018 1.141574e-02 0.028273255  
## 20 wilson 19 1000 0.019 1.219689e-02 0.029484456  
## 21 wilson 20 1000 0.020 1.298368e-02 0.030690005  
## 22 wilson 21 1000 0.021 1.377574e-02 0.031890295  
## 23 wilson 22 1000 0.022 1.457271e-02 0.033085673  
## 24 wilson 23 1000 0.023 1.537428e-02 0.034276451  
## 25 wilson 24 1000 0.024 1.618017e-02 0.035462906  
## 26 wilson 25 1000 0.025 1.699013e-02 0.036645289  
## 27 wilson 26 1000 0.026 1.780394e-02 0.037823829  
## 28 wilson 27 1000 0.027 1.862138e-02 0.038998731  
## 29 wilson 28 1000 0.028 1.944228e-02 0.040170183  
## 30 wilson 29 1000 0.029 2.026645e-02 0.041338358  
## 31 wilson 30 1000 0.030 2.109374e-02 0.042503414  
## 32 wilson 31 1000 0.031 2.192400e-02 0.043665496  
## 33 wilson 32 1000 0.032 2.275711e-02 0.044824738  
## 34 wilson 33 1000 0.033 2.359293e-02 0.045981264  
## 35 wilson 34 1000 0.034 2.443135e-02 0.047135190  
## 36 wilson 35 1000 0.035 2.527226e-02 0.048286622  
## 37 wilson 36 1000 0.036 2.611557e-02 0.049435660  
## 38 wilson 37 1000 0.037 2.696118e-02 0.050582397  
## 39 wilson 38 1000 0.038 2.780900e-02 0.051726920  
## 40 wilson 39 1000 0.039 2.865896e-02 0.052869310  
## 41 wilson 40 1000 0.040 2.951097e-02 0.054009644  
## 42 wilson 41 1000 0.041 3.036497e-02 0.055147993  
## 43 wilson 42 1000 0.042 3.122089e-02 0.056284425  
## 44 wilson 43 1000 0.043 3.207865e-02 0.057419004  
## 45 wilson 44 1000 0.044 3.293821e-02 0.058551789  
## 46 wilson 45 1000 0.045 3.379951e-02 0.059682838  
## 47 wilson 46 1000 0.046 3.466249e-02 0.060812204  
## 48 wilson 47 1000 0.047 3.552711e-02 0.061939938  
## 49 wilson 48 1000 0.048 3.639330e-02 0.063066089  
## 50 wilson 49 1000 0.049 3.726103e-02 0.064190702  
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## 1001 wilson 1000 1000 1.000 9.961732e-01 1.000000000

(CI.L.cp <- filter(CI.L, method == "exact"))#clopper-pearson CIs

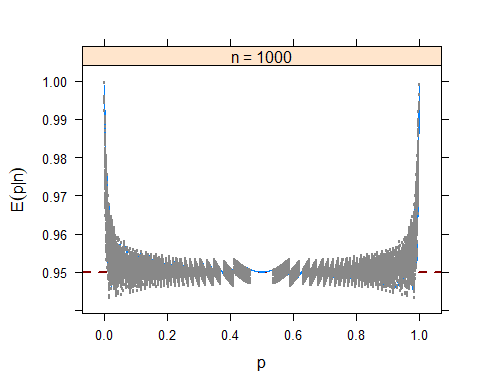
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## 875 exact 874 1000 0.874 8.518263e-01 0.893943168  
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## 877 exact 876 1000 0.876 8.539602e-01 0.895796881  
## 878 exact 877 1000 0.877 8.550278e-01 0.896723090  
## 879 exact 878 1000 0.878 8.560958e-01 0.897648863  
## 880 exact 879 1000 0.879 8.571642e-01 0.898574193  
## 881 exact 880 1000 0.880 8.582331e-01 0.899499076  
## 882 exact 881 1000 0.881 8.593025e-01 0.900423508  
## 883 exact 882 1000 0.882 8.603723e-01 0.901347484  
## 884 exact 883 1000 0.883 8.614425e-01 0.902270998  
## 885 exact 884 1000 0.884 8.625132e-01 0.903194045  
## 886 exact 885 1000 0.885 8.635844e-01 0.904116620  
## 887 exact 886 1000 0.886 8.646561e-01 0.905038718  
## 888 exact 887 1000 0.887 8.657282e-01 0.905960333  
## 889 exact 888 1000 0.888 8.668008e-01 0.906881460  
## 890 exact 889 1000 0.889 8.678739e-01 0.907802093  
## 891 exact 890 1000 0.890 8.689475e-01 0.908722226  
## 892 exact 891 1000 0.891 8.700216e-01 0.909641852  
## 893 exact 892 1000 0.892 8.710962e-01 0.910560967  
## 894 exact 893 1000 0.893 8.721714e-01 0.911479563  
## 895 exact 894 1000 0.894 8.732470e-01 0.912397635  
## 896 exact 895 1000 0.895 8.743232e-01 0.913315175  
## 897 exact 896 1000 0.896 8.753998e-01 0.914232177  
## 898 exact 897 1000 0.897 8.764771e-01 0.915148635  
## 899 exact 898 1000 0.898 8.775548e-01 0.916064540  
## 900 exact 899 1000 0.899 8.786332e-01 0.916979886  
## 901 exact 900 1000 0.900 8.797121e-01 0.917894666  
## 902 exact 901 1000 0.901 8.807915e-01 0.918808871  
## 903 exact 902 1000 0.902 8.818715e-01 0.919722495  
## 904 exact 903 1000 0.903 8.829522e-01 0.920635528  
## 905 exact 904 1000 0.904 8.840334e-01 0.921547964  
## 906 exact 905 1000 0.905 8.851152e-01 0.922459793  
## 907 exact 906 1000 0.906 8.861976e-01 0.923371007  
## 908 exact 907 1000 0.907 8.872806e-01 0.924281597  
## 909 exact 908 1000 0.908 8.883642e-01 0.925191555  
## 910 exact 909 1000 0.909 8.894485e-01 0.926100870  
## 911 exact 910 1000 0.910 8.905334e-01 0.927009534  
## 912 exact 911 1000 0.911 8.916190e-01 0.927917535  
## 913 exact 912 1000 0.912 8.927052e-01 0.928824866  
## 914 exact 913 1000 0.913 8.937921e-01 0.929731514  
## 915 exact 914 1000 0.914 8.948797e-01 0.930637469  
## 916 exact 915 1000 0.915 8.959680e-01 0.931542721  
## 917 exact 916 1000 0.916 8.970570e-01 0.932447258  
## 918 exact 917 1000 0.917 8.981467e-01 0.933351068  
## 919 exact 918 1000 0.918 8.992371e-01 0.934254140  
## 920 exact 919 1000 0.919 9.003283e-01 0.935156460  
## 921 exact 920 1000 0.920 9.014202e-01 0.936058017  
## 922 exact 921 1000 0.921 9.025129e-01 0.936958797  
## 923 exact 922 1000 0.922 9.036064e-01 0.937858787  
## 924 exact 923 1000 0.923 9.047006e-01 0.938757972  
## 925 exact 924 1000 0.924 9.057957e-01 0.939656339  
## 926 exact 925 1000 0.925 9.068916e-01 0.940553872  
## 927 exact 926 1000 0.926 9.079883e-01 0.941450556  
## 928 exact 927 1000 0.927 9.090858e-01 0.942346375  
## 929 exact 928 1000 0.928 9.101843e-01 0.943241312  
## 930 exact 929 1000 0.929 9.112836e-01 0.944135352  
## 931 exact 930 1000 0.930 9.123838e-01 0.945028475  
## 932 exact 931 1000 0.931 9.134849e-01 0.945920664  
## 933 exact 932 1000 0.932 9.145869e-01 0.946811900  
## 934 exact 933 1000 0.933 9.156900e-01 0.947702164  
## 935 exact 934 1000 0.934 9.167939e-01 0.948591434  
## 936 exact 935 1000 0.935 9.178989e-01 0.949479690  
## 937 exact 936 1000 0.936 9.190049e-01 0.950366911  
## 938 exact 937 1000 0.937 9.201120e-01 0.951253072  
## 939 exact 938 1000 0.938 9.212201e-01 0.952138152  
## 940 exact 939 1000 0.939 9.223292e-01 0.953022124  
## 941 exact 940 1000 0.940 9.234395e-01 0.953904965  
## 942 exact 941 1000 0.941 9.245509e-01 0.954786646  
## 943 exact 942 1000 0.942 9.256635e-01 0.955667140  
## 944 exact 943 1000 0.943 9.267773e-01 0.956546418  
## 945 exact 944 1000 0.944 9.278923e-01 0.957424450  
## 946 exact 945 1000 0.945 9.290085e-01 0.958301205  
## 947 exact 946 1000 0.946 9.301260e-01 0.959176649  
## 948 exact 947 1000 0.947 9.312448e-01 0.960050748  
## 949 exact 948 1000 0.948 9.323650e-01 0.960923465  
## 950 exact 949 1000 0.949 9.334865e-01 0.961794763  
## 951 exact 950 1000 0.950 9.346095e-01 0.962664602  
## 952 exact 951 1000 0.951 9.357339e-01 0.963532941  
## 953 exact 952 1000 0.952 9.368599e-01 0.964399735  
## 954 exact 953 1000 0.953 9.379874e-01 0.965264938  
## 955 exact 954 1000 0.954 9.391164e-01 0.966128501  
## 956 exact 955 1000 0.955 9.402472e-01 0.966990375  
## 957 exact 956 1000 0.956 9.413796e-01 0.967850503  
## 958 exact 957 1000 0.957 9.425137e-01 0.968708830  
## 959 exact 958 1000 0.958 9.436497e-01 0.969565294  
## 960 exact 959 1000 0.959 9.447875e-01 0.970419831  
## 961 exact 960 1000 0.960 9.459273e-01 0.971272375  
## 962 exact 961 1000 0.961 9.470691e-01 0.972122851  
## 963 exact 962 1000 0.962 9.482129e-01 0.972971184  
## 964 exact 963 1000 0.963 9.493589e-01 0.973817291  
## 965 exact 964 1000 0.964 9.505071e-01 0.974661085  
## 966 exact 965 1000 0.965 9.516576e-01 0.975502472  
## 967 exact 966 1000 0.966 9.528106e-01 0.976341352  
## 968 exact 967 1000 0.967 9.539660e-01 0.977177617  
## 969 exact 968 1000 0.968 9.551241e-01 0.978011150  
## 970 exact 969 1000 0.969 9.562849e-01 0.978841828  
## 971 exact 970 1000 0.970 9.574486e-01 0.979669514  
## 972 exact 971 1000 0.971 9.586153e-01 0.980494063  
## 973 exact 972 1000 0.972 9.597851e-01 0.981315314  
## 974 exact 973 1000 0.973 9.609583e-01 0.982133094  
## 975 exact 974 1000 0.974 9.621349e-01 0.982947214  
## 976 exact 975 1000 0.975 9.633152e-01 0.983757464  
## 977 exact 976 1000 0.976 9.644994e-01 0.984563617  
## 978 exact 977 1000 0.977 9.656877e-01 0.985365418  
## 979 exact 978 1000 0.978 9.668803e-01 0.986162586  
## 980 exact 979 1000 0.979 9.680777e-01 0.986954808  
## 981 exact 980 1000 0.980 9.692800e-01 0.987741732  
## 982 exact 981 1000 0.981 9.704876e-01 0.988522963  
## 983 exact 982 1000 0.982 9.717010e-01 0.989298052  
## 984 exact 983 1000 0.983 9.729205e-01 0.990066487  
## 985 exact 984 1000 0.984 9.741468e-01 0.990827681  
## 986 exact 985 1000 0.985 9.753803e-01 0.991580950  
## 987 exact 986 1000 0.986 9.766218e-01 0.992325498  
## 988 exact 987 1000 0.987 9.778722e-01 0.993060382  
## 989 exact 988 1000 0.988 9.791323e-01 0.993784474  
## 990 exact 989 1000 0.989 9.804034e-01 0.994496406  
## 991 exact 990 1000 0.990 9.816868e-01 0.995194489  
## 992 exact 991 1000 0.991 9.829842e-01 0.995876604  
## 993 exact 992 1000 0.992 9.842980e-01 0.996540024  
## 994 exact 993 1000 0.993 9.856308e-01 0.997181141  
## 995 exact 994 1000 0.994 9.869866e-01 0.997795018  
## 996 exact 995 1000 0.995 9.883705e-01 0.998374580  
## 997 exact 996 1000 0.996 9.897903e-01 0.998909092  
## 998 exact 997 1000 0.997 9.912580e-01 0.999380900  
## 999 exact 998 1000 0.998 9.927942e-01 0.999757699  
## 1000 exact 999 1000 0.999 9.944411e-01 0.999974683  
## 1001 exact 1000 1000 1.000 9.963179e-01 1.000000000

binom.plot(n = 1000, method = binom.asymp, np = 5000, conf.level = 0.95)

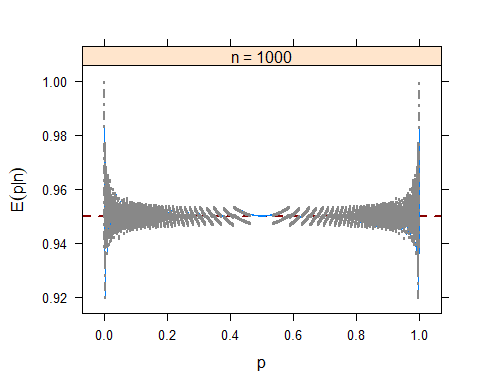
## Loading required package: lattice



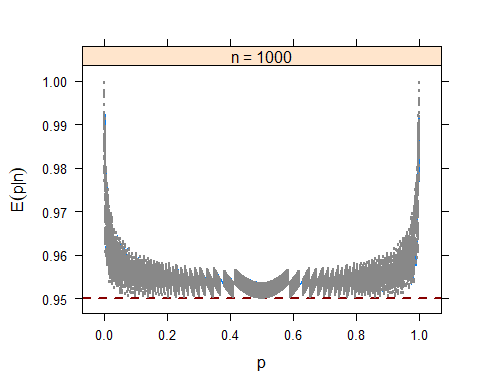
binom.plot(n = 1000, method = binom.agresti.coull, np = 5000, conf.level = 0.95)



binom.plot(n = 1000, method = binom.wilson, np = 5000, conf.level = 0.95)



binom.plot(n = 1000, method = binom.exact, np = 5000, conf.level = 0.95)



#Small sample  
CI.S <- binom.confint(x=w.S, n=n.S, conf.level = 1-alpha, methods = c("asymptotic", "agresti-coull", "wilson", "exact"))  
(CI.S.wald <- filter(CI.S, method == "astmptotic"))#wald CIs

## [1] method x n mean lower upper   
## <0 rows> (or 0-length row.names)

(CI.S.ac <- filter(CI.S, method == "agresti-coull"))#agresti-coull CIS

## method x n mean lower upper  
## 1 agresti-coull 0 10 0.0 -0.043354506 0.3208873  
## 2 agresti-coull 1 10 0.1 -0.003941498 0.4259677  
## 3 agresti-coull 2 10 0.2 0.045887270 0.5206324  
## 4 agresti-coull 3 10 0.3 0.103338418 0.6076747  
## 5 agresti-coull 4 10 0.4 0.167110626 0.6883959  
## 6 agresti-coull 5 10 0.5 0.236593091 0.7634069  
## 7 agresti-coull 6 10 0.6 0.311604066 0.8328894  
## 8 agresti-coull 7 10 0.7 0.392325298 0.8966616  
## 9 agresti-coull 8 10 0.8 0.479367591 0.9541127  
## 10 agresti-coull 9 10 0.9 0.574032263 1.0039415  
## 11 agresti-coull 10 10 1.0 0.679112694 1.0433545

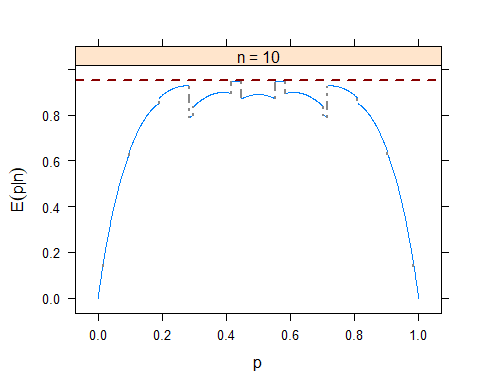
(CI.S.score <- filter(CI.S, method == "wilson"))#score CIs

## method x n mean lower upper  
## 1 wilson 0 10 0.0 2.005249e-17 0.2775328  
## 2 wilson 1 10 0.1 1.787621e-02 0.4041500  
## 3 wilson 2 10 0.2 5.668215e-02 0.5098375  
## 4 wilson 3 10 0.3 1.077913e-01 0.6032219  
## 5 wilson 4 10 0.4 1.681803e-01 0.6873262  
## 6 wilson 5 10 0.5 2.365931e-01 0.7634069  
## 7 wilson 6 10 0.6 3.126738e-01 0.8318197  
## 8 wilson 7 10 0.7 3.967781e-01 0.8922087  
## 9 wilson 8 10 0.8 4.901625e-01 0.9433178  
## 10 wilson 9 10 0.9 5.958500e-01 0.9821238  
## 11 wilson 10 10 1.0 7.224672e-01 1.0000000

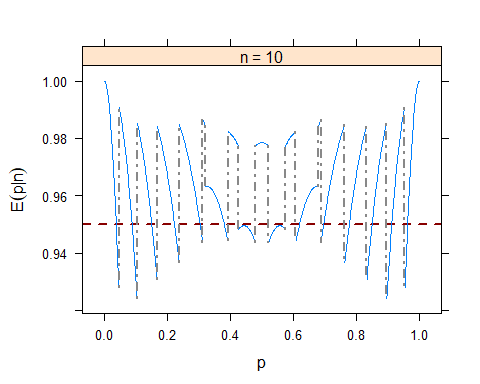
(CI.S.cp <- filter(CI.S, method == "exact"))#clopper-pearson CIS

## method x n mean lower upper  
## 1 exact 0 10 0.0 0.000000000 0.3084971  
## 2 exact 1 10 0.1 0.002528579 0.4450161  
## 3 exact 2 10 0.2 0.025210726 0.5560955  
## 4 exact 3 10 0.3 0.066739511 0.6524529  
## 5 exact 4 10 0.4 0.121552258 0.7376219  
## 6 exact 5 10 0.5 0.187086028 0.8129140  
## 7 exact 6 10 0.6 0.262378077 0.8784477  
## 8 exact 7 10 0.7 0.347547150 0.9332605  
## 9 exact 8 10 0.8 0.443904538 0.9747893  
## 10 exact 9 10 0.9 0.554983883 0.9974714  
## 11 exact 10 10 1.0 0.691502892 1.0000000

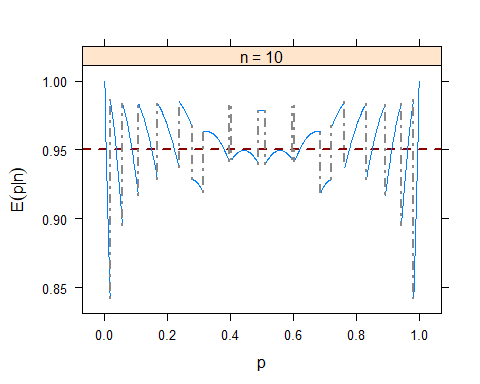
binom.plot(n = 10, method = binom.asymp, np = 1000, conf.level = 0.95)



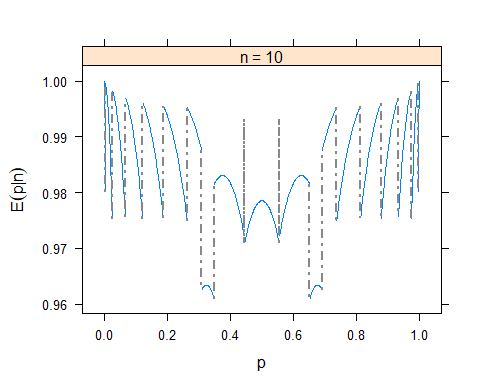
binom.plot(n = 10, method = binom.agresti.coull, np = 1000, conf.level = 0.95)



binom.plot(n = 10, method = binom.wilson, np = 1000, conf.level = 0.95)



binom.plot(n = 10, method = binom.exact, np = 1000, conf.level = 0.95)

 (a) For large sample, all 4 types of intervals appear to be narrower than with small sample. In both sample sizes, Clopper-Pearson CIs are slightly wider than other 3.

1. For large sample size, the patterns of coverage seem to behave well with minor differences among different methods. However with small sample, comparing to large sample, the curves are less likely to stay along the .95 line(this is very obvious in graphs for wald and clopper-pearson), which means the CIs are less likely to guarantee having 95% confident level when dealing with small sample.

# Lecture 4

library(PropCIs)

## Warning: package 'PropCIs' was built under R version 3.5.2

alpha <- 0.05  
  
#Time-out group  
w.v <- 10  
n.v <- 16  
#No Time-out group  
w.p <- 22  
n.p <- 26

wald2ci(x1=w.v, n1=n.v, x2=w.p, n2=n.p, conf.level = 0.95, adjust = "Wald")

##   
##   
##   
## data:   
##   
## 95 percent confidence interval:  
## -0.49593538 0.05362769  
## sample estimates:  
## [1] -0.2211538

wald2ci(x1=w.v, n1=n.v, x2=w.p, n2=n.p, conf.level = 0.95, adjust = "AC")

##   
##   
##   
## data:   
##   
## 95 percent confidence interval:  
## -0.47648115 0.05584623  
## sample estimates:  
## [1] -0.2103175

diffscoreci(x1=w.v, n1=n.v, x2=w.p, n2=n.p, conf.level = 0.95)

##   
##   
##   
## data:   
##   
## 95 percent confidence interval:  
## -0.49174585 0.04592923

For each type of interval: we expect 95% of all similarly constructed intervals to contain the true value of the difference between probabilities of success of 2 strategy groups.

#score  
prop.test(x=c(w.v, w.p), n=c(n.v, n.p), alternative="less", correct=FALSE)

## Warning in prop.test(x = c(w.v, w.p), n = c(n.v, n.p), alternative =  
## "less", : Chi-squared approximation may be incorrect

##   
## 2-sample test for equality of proportions without continuity  
## correction  
##   
## data: c(w.v, w.p) out of c(n.v, n.p)  
## X-squared = 2.6704, df = 1, p-value = 0.05111  
## alternative hypothesis: less  
## 95 percent confidence interval:  
## -1.000000000 0.009450086  
## sample estimates:  
## prop 1 prop 2   
## 0.6250000 0.8461538

Based on large p value, we fail to reject H0: pi1 = pi2.

#LR  
kicmat <- matrix(data=c(w.v, w.p, n.v-w.v, n.p-w.p), nrow=2)  
library(vcd)

## Warning: package 'vcd' was built under R version 3.5.2

## Loading required package: grid

assocstats(kicmat)

## X^2 df P(> X^2)  
## Likelihood Ratio 2.6106 1 0.10615  
## Pearson 2.6704 1 0.10223  
##   
## Phi-Coefficient : 0.252   
## Contingency Coeff.: 0.245   
## Cramer's V : 0.252

We cannot reject H0 using LR test, as p value is greater than alpha = 0.05.

#Non-native group  
w.v2 <- 118  
n.v2 <- 211  
  
#Native group  
w.p2 <- 155  
n.p2 <- 206

H0: pi1 - pi2 = 0  
Ha: pi1 - pi1 < 0 alpha = 0.05

Use score test

prop.test(x=c(w.v2, w.p2), n=c(n.v2, n.p2), alternative="less", correct=FALSE)

##   
## 2-sample test for equality of proportions without continuity  
## correction  
##   
## data: c(w.v2, w.p2) out of c(n.v2, n.p2)  
## X-squared = 17.207, df = 1, p-value = 1.676e-05  
## alternative hypothesis: less  
## 95 percent confidence interval:  
## -1.0000000 -0.1183044  
## sample estimates:  
## prop 1 prop 2   
## 0.5592417 0.7524272

We reject H0 because p value is smaller than alpha. So we conclude that non-native English speaking students do not pick up on humor as much as native English speaking stduents.

# Leture 5

#Time-out group  
w.v <- 10  
n.v <- 16   
# No Time-out group  
w.p <- 22  
n.p <- 26

pi.hat.v <- w.v/n.v  
pi.hat.p <- w.p/n.p  
pi.hat.v/pi.hat.p #Relative risk

## [1] 0.7386364

The success rate of time-out group is 0.7386 times as high as the no time-out group.

riskscoreci(x1=w.v, n1=n.v, x2=w.p, n2=n.p, conf.level = 0.95) #Score CI

##   
##   
##   
## data:   
##   
## 95 percent confidence interval:  
## 0.4480251 1.0600376

We expect 95% of similarly constructed intervels to contain the true relative risk of the time-out group to make a successful kick.

(w.v \* (n.p-w.p)) / (w.p \* (n.v-w.v)) #Odds Ratio

## [1] 0.3030303

The odds of making a successful kick of time-out group are 0.3030 times as high as they are in no time-out group.

orscoreci(x1=w.v, n1=n.v, x2=w.p, n2=n.p, conf.level = 0.95) #Score CI of odds ratio

##   
##   
##   
## data:   
##   
## 95 percent confidence interval:  
## 0.0726889 1.2696219

We expect 95% of all similarly constructed intervals to contain the odds ratio between 2 groups.

1. Use Score test to testify whether 2 groups have the same rate of success. H0: pi1 - pi2 = 0, Ha: pi1 - pi2 < 0, alpha = 0.05.

prop.test(x=c(w.v, w.p), n=c(n.v, n.p), alternative="less", correct=FALSE)

## Warning in prop.test(x = c(w.v, w.p), n = c(n.v, n.p), alternative =  
## "less", : Chi-squared approximation may be incorrect

##   
## 2-sample test for equality of proportions without continuity  
## correction  
##   
## data: c(w.v, w.p) out of c(n.v, n.p)  
## X-squared = 2.6704, df = 1, p-value = 0.05111  
## alternative hypothesis: less  
## 95 percent confidence interval:  
## -1.000000000 0.009450086  
## sample estimates:  
## prop 1 prop 2   
## 0.6250000 0.8461538

Based on p value we do not reject null hypothesis, so icing the kicker may not be a good stategy, but the sample sizes are small, so there may exist bias.