

Comparison Loss

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Comparison Loss

based on work by P. I. Jewett, L. Zhu, B. Huang, E. Feuer, R. E. Gangnon. “Optimal Point Estimates and Credible Intervals for Ranking County Health Indices.” (under review)

Create Model with Intercepts for Each County

```
m1 <- map2stan(
  alist(
    NumLBW ~ dbinom(NumBirths, p) ,
    logit(p) <- a_county[County] ,
    a_county[County] ~ dnorm(a, sigma) ,
    a ~ dnorm(0, 10) ,
    sigma ~ dcauchy(0,1)
  ), data=raw_data, iter=4000, chains=4, WAIC=FALSE) #remove WAIC to speed up

##
## SAMPLING FOR MODEL 'NumLBW ~ dbinom(NumBirths, p)' NOW (CHAIN 1).
##
## Gradient evaluation took 7.4e-05 seconds
## 1000 transitions using 10 leapfrog steps per transition would take 0.74 seconds.
## Adjust your expectations accordingly!
##
##
## Iteration:    1 / 4000 [  0%] (Warmup)
## Iteration:   400 / 4000 [ 10%] (Warmup)
## Iteration:   800 / 4000 [ 20%] (Warmup)
## Iteration:  1200 / 4000 [ 30%] (Warmup)
## Iteration:  1600 / 4000 [ 40%] (Warmup)
## Iteration:  2000 / 4000 [ 50%] (Warmup)
## Iteration:  2001 / 4000 [ 50%] (Sampling)
## Iteration:  2400 / 4000 [ 60%] (Sampling)
## Iteration:  2800 / 4000 [ 70%] (Sampling)
## Iteration:  3200 / 4000 [ 80%] (Sampling)
## Iteration:  3600 / 4000 [ 90%] (Sampling)
## Iteration:  4000 / 4000 [100%] (Sampling)
##
## Elapsed Time: 1.77588 seconds (Warm-up)
##               1.04183 seconds (Sampling)
##               2.81772 seconds (Total)
##
##
## SAMPLING FOR MODEL 'NumLBW ~ dbinom(NumBirths, p)' NOW (CHAIN 2).
##
## Gradient evaluation took 6.2e-05 seconds
```

```

## 1000 transitions using 10 leapfrog steps per transition would take 0.62 seconds.
## Adjust your expectations accordingly!
##
##
## Iteration:    1 / 4000 [  0%] (Warmup)
## Iteration:   400 / 4000 [ 10%] (Warmup)
## Iteration:   800 / 4000 [ 20%] (Warmup)
## Iteration:  1200 / 4000 [ 30%] (Warmup)
## Iteration:  1600 / 4000 [ 40%] (Warmup)
## Iteration:  2000 / 4000 [ 50%] (Warmup)
## Iteration:  2001 / 4000 [ 50%] (Sampling)
## Iteration:  2400 / 4000 [ 60%] (Sampling)
## Iteration:  2800 / 4000 [ 70%] (Sampling)
## Iteration:  3200 / 4000 [ 80%] (Sampling)
## Iteration:  3600 / 4000 [ 90%] (Sampling)
## Iteration:  4000 / 4000 [100%] (Sampling)
##
## Elapsed Time: 1.71853 seconds (Warm-up)
##               1.05452 seconds (Sampling)
##               2.77305 seconds (Total)
##
##
## SAMPLING FOR MODEL 'NumLBW ~ dbinom(NumBirths, p)' NOW (CHAIN 3).
##
## Gradient evaluation took 6.1e-05 seconds
## 1000 transitions using 10 leapfrog steps per transition would take 0.61 seconds.
## Adjust your expectations accordingly!
##
##
## Iteration:    1 / 4000 [  0%] (Warmup)
## Iteration:   400 / 4000 [ 10%] (Warmup)
## Iteration:   800 / 4000 [ 20%] (Warmup)
## Iteration:  1200 / 4000 [ 30%] (Warmup)
## Iteration:  1600 / 4000 [ 40%] (Warmup)
## Iteration:  2000 / 4000 [ 50%] (Warmup)
## Iteration:  2001 / 4000 [ 50%] (Sampling)
## Iteration:  2400 / 4000 [ 60%] (Sampling)
## Iteration:  2800 / 4000 [ 70%] (Sampling)
## Iteration:  3200 / 4000 [ 80%] (Sampling)
## Iteration:  3600 / 4000 [ 90%] (Sampling)
## Iteration:  4000 / 4000 [100%] (Sampling)
##
## Elapsed Time: 1.69131 seconds (Warm-up)
##               1.03463 seconds (Sampling)
##               2.72595 seconds (Total)
##
##
## SAMPLING FOR MODEL 'NumLBW ~ dbinom(NumBirths, p)' NOW (CHAIN 4).
##
## Gradient evaluation took 4e-05 seconds
## 1000 transitions using 10 leapfrog steps per transition would take 0.4 seconds.
## Adjust your expectations accordingly!
##
##

```

```

## Iteration:    1 / 4000 [ 0%] (Warmup)
## Iteration:   400 / 4000 [ 10%] (Warmup)
## Iteration:   800 / 4000 [ 20%] (Warmup)
## Iteration:  1200 / 4000 [ 30%] (Warmup)
## Iteration:  1600 / 4000 [ 40%] (Warmup)
## Iteration:  2000 / 4000 [ 50%] (Warmup)
## Iteration:  2001 / 4000 [ 50%] (Sampling)
## Iteration:  2400 / 4000 [ 60%] (Sampling)
## Iteration:  2800 / 4000 [ 70%] (Sampling)
## Iteration:  3200 / 4000 [ 80%] (Sampling)
## Iteration:  3600 / 4000 [ 90%] (Sampling)
## Iteration:  4000 / 4000 [100%] (Sampling)
##
## Elapsed Time: 1.6778 seconds (Warm-up)
##               1.05835 seconds (Sampling)
##               2.73615 seconds (Total)
##
## SAMPLING FOR MODEL 'NumLBW ~ dbinom(NumBirths, p)' NOW (CHAIN 1).
##
## Gradient evaluation took 5.5e-05 seconds
## 1000 transitions using 10 leapfrog steps per transition would take 0.55 seconds.
## Adjust your expectations accordingly!
##
##
## WARNING: No variance estimation is
##           performed for num_warmup < 20
##
## Iteration: 1 / 1 [100%] (Sampling)
##
## Elapsed Time: 2e-06 seconds (Warm-up)
##               0.000227 seconds (Sampling)
##               0.000229 seconds (Total)
##
## Warning: There were 1 divergent transitions after warmup. Increasing adapt_delta above 0.8 may help.
## http://mc-stan.org/misc/warnings.html#divergent-transitions-after-warmup
##
## Warning: Examine the pairs() plot to diagnose sampling problems

```

Summarize Posterior

```

## Get Samples From the Posterior for Each County ##
samples = 10000
post <- extract.samples(m1)
post$a_county #each of these is logit(p_i)

```

```

##           [,1]      [,2]      [,3]      [,4]      [,5]      [,6]
## [1,] -2.385140 -2.483131 -2.416921 -2.347077 -2.626568 -2.310222
## [2,] -2.384619 -2.445564 -2.415535 -2.327041 -2.560021 -2.266806
## [3,] -2.407161 -2.460862 -2.416392 -2.334276 -2.626111 -2.249507
## [4,] -2.411433 -2.454987 -2.409421 -2.337001 -2.560981 -2.279165
## [5,] -2.376310 -2.455368 -2.416558 -2.298451 -2.492985 -2.264223
## [6,] -2.402167 -2.447490 -2.363805 -2.322567 -2.640996 -2.245382
## [7,] -2.405410 -2.462016 -2.364402 -2.306130 -2.558559 -2.277987

```

```

##      [8,] -2.364086 -2.463636 -2.407402 -2.312404 -2.542982 -2.261984
##      [9,] -2.365070 -2.438449 -2.393805 -2.319680 -2.568167 -2.224542
##     [10,] -2.414635 -2.429637 -2.393420 -2.335660 -2.549139 -2.287183
##     [11,] -2.399379 -2.440366 -2.375191 -2.285903 -2.551470 -2.250387
##     [12,] -2.416815 -2.458226 -2.401549 -2.308666 -2.536598 -2.244676
##     [13,] -2.390766 -2.460734 -2.398671 -2.286073 -2.710355 -2.263144
##     [14,] -2.393399 -2.453065 -2.400140 -2.312082 -2.595344 -2.260710
##     [15,] -2.445686 -2.449320 -2.380802 -2.293671 -2.626340 -2.276827
##     [16,] -2.399894 -2.454095 -2.399708 -2.321923 -2.507234 -2.250165
##     [17,] -2.408840 -2.441845 -2.411462 -2.299688 -2.541337 -2.235192
##     [18,] -2.403223 -2.443491 -2.362477 -2.285804 -2.667307 -2.267347
##     [19,] -2.428143 -2.447356 -2.384276 -2.290336 -2.514726 -2.279099
##     [20,] -2.407647 -2.449410 -2.395870 -2.306225 -2.533605 -2.220606
##     [21,] -2.443102 -2.423568 -2.399879 -2.320859 -2.592920 -2.257631
##     [22,] -2.384927 -2.443877 -2.391157 -2.289934 -2.565102 -2.258745
##     [23,] -2.410429 -2.462258 -2.370626 -2.322325 -2.571306 -2.218146
##     [24,] -2.387424 -2.451576 -2.393640 -2.305031 -2.595128 -2.201559
##     [25,] -2.391493 -2.457261 -2.397522 -2.313712 -2.609486 -2.243631
##     [26,] -2.394958 -2.447515 -2.409552 -2.294419 -2.557186 -2.306452
##     [27,] -2.425676 -2.464973 -2.413170 -2.304698 -2.558334 -2.238966
##     [28,] -2.433241 -2.474998 -2.376716 -2.321861 -2.544520 -2.248857
##     [29,] -2.381986 -2.464300 -2.417364 -2.332375 -2.508134 -2.254406
##     [30,] -2.383282 -2.456448 -2.376390 -2.284007 -2.540672 -2.285978
##     [31,] -2.394154 -2.460831 -2.397418 -2.301482 -2.539050 -2.255378
##     [32,] -2.392666 -2.471537 -2.420960 -2.324051 -2.608524 -2.222771
##     [33,] -2.442629 -2.427240 -2.415668 -2.315475 -2.583295 -2.245348
##     [34,] -2.358567 -2.462129 -2.392770 -2.274872 -2.553414 -2.259168
##     [35,] -2.408739 -2.438679 -2.371398 -2.330665 -2.551521 -2.264382
##     [36,] -2.390692 -2.466924 -2.405137 -2.338390 -2.568143 -2.252508
##     [37,] -2.406141 -2.449341 -2.390579 -2.302049 -2.584321 -2.237952
##     [38,] -2.386369 -2.452735 -2.414097 -2.318547 -2.525013 -2.253235
##     [39,] -2.391330 -2.449070 -2.386024 -2.309869 -2.527900 -2.238690
##     [40,] -2.419878 -2.446260 -2.413280 -2.332343 -2.623544 -2.274583
##     [41,] -2.387691 -2.445111 -2.393398 -2.299912 -2.492255 -2.206212
##     [42,] -2.351937 -2.458462 -2.415869 -2.277580 -2.630132 -2.302255
##     [43,] -2.432474 -2.459778 -2.398174 -2.316066 -2.558244 -2.258148
##     [44,] -2.405306 -2.437185 -2.402521 -2.300435 -2.566235 -2.268215
##     [45,] -2.393854 -2.470769 -2.384333 -2.320190 -2.590700 -2.303686
##     [46,] -2.389830 -2.463582 -2.377142 -2.333845 -2.440966 -2.255732
##     [47,] -2.408052 -2.429162 -2.399545 -2.323775 -2.616347 -2.274467
##     [48,] -2.357446 -2.462048 -2.379300 -2.325976 -2.636693 -2.263340
##     [49,] -2.411267 -2.448625 -2.390436 -2.275376 -2.613338 -2.240787
##     [50,] -2.349977 -2.454587 -2.378834 -2.301503 -2.472800 -2.280145
##     [51,] -2.403645 -2.448134 -2.384267 -2.288126 -2.484985 -2.269456
##     [52,] -2.387913 -2.442871 -2.413218 -2.337168 -2.518181 -2.303708
##     [53,] -2.380508 -2.430871 -2.416625 -2.297106 -2.610448 -2.255840
##     [54,] -2.423021 -2.471352 -2.398248 -2.322130 -2.632630 -2.286006
##     [55,] -2.396664 -2.446547 -2.365658 -2.312508 -2.647162 -2.251618
##     [56,] -2.383698 -2.451232 -2.352246 -2.310379 -2.615602 -2.283883
##     [57,] -2.393859 -2.466276 -2.401945 -2.323651 -2.488022 -2.251160
##     [58,] -2.390119 -2.443225 -2.408316 -2.317843 -2.570474 -2.232435
##     [59,] -2.389981 -2.470877 -2.438004 -2.327890 -2.624631 -2.290972
##     [60,] -2.403581 -2.460978 -2.392774 -2.294360 -2.583597 -2.257422
##     [61,] -2.373435 -2.436706 -2.385661 -2.303598 -2.618772 -2.313222

```

```

## [62,] -2.413062 -2.465990 -2.395081 -2.312771 -2.587888 -2.277419
## [63,] -2.445262 -2.451971 -2.405644 -2.327168 -2.561464 -2.257937
## [64,] -2.382653 -2.467646 -2.398887 -2.310734 -2.700560 -2.232519
## [65,] -2.404516 -2.472878 -2.395244 -2.332423 -2.561590 -2.341944
## [66,] -2.420647 -2.439894 -2.383326 -2.317931 -2.528873 -2.258083
## [67,] -2.408257 -2.434623 -2.374309 -2.298609 -2.610788 -2.282066
## [68,] -2.356505 -2.455139 -2.389129 -2.331815 -2.569414 -2.248665
## [69,] -2.386331 -2.429124 -2.387688 -2.318092 -2.606946 -2.280942
## [70,] -2.420074 -2.437384 -2.385308 -2.325576 -2.547976 -2.252938
## [71,] -2.390458 -2.427764 -2.395622 -2.339461 -2.602120 -2.265018
## [72,] -2.414934 -2.464543 -2.396849 -2.299421 -2.586132 -2.302777
## [73,] -2.391495 -2.448532 -2.403386 -2.309009 -2.614402 -2.267149
## [74,] -2.401742 -2.452445 -2.402143 -2.289538 -2.614742 -2.317443
## [75,] -2.397896 -2.452709 -2.400743 -2.300258 -2.607196 -2.237739
## [76,] -2.394732 -2.473214 -2.396756 -2.264853 -2.589464 -2.265859
## [77,] -2.363294 -2.439939 -2.375200 -2.300294 -2.512769 -2.277492
## [78,] -2.412108 -2.465490 -2.363106 -2.305395 -2.477177 -2.299222
## [79,] -2.384927 -2.443877 -2.391157 -2.289934 -2.565102 -2.258745
## [80,] -2.394927 -2.449624 -2.396884 -2.306651 -2.574087 -2.240999
## [81,] -2.442630 -2.462191 -2.389972 -2.337136 -2.558116 -2.258236
## [82,] -2.373053 -2.471236 -2.389804 -2.284538 -2.555685 -2.256960
## [83,] -2.381726 -2.458554 -2.391069 -2.324912 -2.651371 -2.259591
## [84,] -2.357290 -2.432711 -2.370581 -2.320581 -2.642206 -2.244037
## [85,] -2.365715 -2.451314 -2.392019 -2.301706 -2.542972 -2.265676
## [86,] -2.397058 -2.450925 -2.353291 -2.317230 -2.558184 -2.255694
## [87,] -2.420445 -2.451804 -2.405565 -2.311651 -2.584721 -2.269199
## [88,] -2.412139 -2.446634 -2.374722 -2.305345 -2.659497 -2.273318
## [89,] -2.402562 -2.475061 -2.411319 -2.315201 -2.644242 -2.273353
## [90,] -2.402353 -2.475155 -2.447287 -2.313597 -2.587058 -2.253316
## [91,] -2.421237 -2.436887 -2.363834 -2.324249 -2.581200 -2.260689
## [92,] -2.380799 -2.452135 -2.408791 -2.295437 -2.596663 -2.272034
## [93,] -2.400802 -2.474338 -2.452366 -2.324922 -2.565003 -2.257595
## [94,] -2.410206 -2.447013 -2.414762 -2.300251 -2.566183 -2.259769
## [95,] -2.371429 -2.451360 -2.390284 -2.308138 -2.558473 -2.253327
## [96,] -2.420598 -2.420588 -2.387026 -2.353012 -2.570393 -2.224181
## [97,] -2.429668 -2.445802 -2.355957 -2.298718 -2.633757 -2.234613
## [98,] -2.380011 -2.445504 -2.366363 -2.332243 -2.593198 -2.262304
## [99,] -2.423349 -2.444505 -2.378175 -2.344642 -2.568503 -2.211753
## [100,] -2.417292 -2.429050 -2.419574 -2.299839 -2.586321 -2.285767
## [101,] -2.383926 -2.462175 -2.363087 -2.295931 -2.609639 -2.308631
## [102,] -2.397527 -2.441150 -2.389913 -2.304415 -2.527674 -2.252954
## [103,] -2.368268 -2.469820 -2.413091 -2.301794 -2.496966 -2.249479
## [104,] -2.407831 -2.453830 -2.385674 -2.310976 -2.534794 -2.227343
## [105,] -2.416135 -2.452034 -2.370561 -2.335586 -2.640363 -2.235865
## [106,] -2.421400 -2.480211 -2.374013 -2.303858 -2.544857 -2.231563
## [107,] -2.402135 -2.442081 -2.407846 -2.319585 -2.597100 -2.284278
## [108,] -2.382321 -2.419830 -2.402589 -2.295641 -2.577765 -2.241742
## [109,] -2.405391 -2.437389 -2.399978 -2.292891 -2.562465 -2.276993
## [110,] -2.385924 -2.472915 -2.405958 -2.315235 -2.667777 -2.213154
## [111,] -2.400174 -2.453173 -2.409016 -2.273037 -2.639210 -2.243877
## [112,] -2.393851 -2.441049 -2.375429 -2.306593 -2.548611 -2.269578
## [113,] -2.410268 -2.450271 -2.382228 -2.301272 -2.564145 -2.326740
## [114,] -2.427765 -2.468102 -2.395839 -2.297525 -2.507520 -2.224635
## [115,] -2.371716 -2.440428 -2.410865 -2.291271 -2.543644 -2.231947

```

```

## [116,] -2.364790 -2.429634 -2.382516 -2.314584 -2.605256 -2.282595
## [117,] -2.436093 -2.452188 -2.408929 -2.295240 -2.591851 -2.233690
## [118,] -2.366057 -2.444378 -2.400047 -2.339745 -2.583691 -2.212363
## [119,] -2.414013 -2.462318 -2.384410 -2.317957 -2.548437 -2.315519
## [120,] -2.372462 -2.450914 -2.383639 -2.301003 -2.463526 -2.266426
## [121,] -2.397490 -2.452231 -2.396363 -2.313236 -2.599743 -2.250484
## [122,] -2.405603 -2.471710 -2.413192 -2.302270 -2.540821 -2.248146
## [123,] -2.375916 -2.452474 -2.378248 -2.310496 -2.626123 -2.234536
## [124,] -2.352867 -2.436499 -2.354323 -2.310974 -2.481320 -2.267411
## [125,] -2.414468 -2.455266 -2.371898 -2.320150 -2.596087 -2.223331
## [126,] -2.426524 -2.442277 -2.378428 -2.290691 -2.540428 -2.258028
## [127,] -2.406688 -2.452554 -2.397613 -2.296004 -2.497540 -2.293069
## [128,] -2.418812 -2.456333 -2.368787 -2.303662 -2.556507 -2.253159
## [129,] -2.361630 -2.450651 -2.391631 -2.325614 -2.586774 -2.273829
## [130,] -2.444676 -2.436754 -2.398311 -2.323113 -2.600732 -2.265295
## [131,] -2.433301 -2.462567 -2.399337 -2.259249 -2.616187 -2.199667
## [132,] -2.431820 -2.467428 -2.396344 -2.303383 -2.606706 -2.247260
## [133,] -2.388003 -2.427740 -2.395973 -2.314127 -2.573444 -2.272290
## [134,] -2.407551 -2.452186 -2.408287 -2.304542 -2.588264 -2.239734
## [135,] -2.405567 -2.450040 -2.400678 -2.295791 -2.535123 -2.246280
## [136,] -2.388045 -2.446790 -2.420096 -2.296208 -2.544976 -2.290962
## [137,] -2.400369 -2.445565 -2.411258 -2.339811 -2.501557 -2.309592
## [138,] -2.371265 -2.427185 -2.418665 -2.338129 -2.530863 -2.254619
## [139,] -2.412343 -2.428320 -2.426081 -2.309492 -2.639199 -2.236425
## [140,] -2.377603 -2.422748 -2.387514 -2.308018 -2.570030 -2.286833
## [141,] -2.428904 -2.465062 -2.404846 -2.306085 -2.500656 -2.247290
## [142,] -2.380120 -2.447012 -2.391011 -2.328578 -2.553329 -2.287032
## [143,] -2.385138 -2.468817 -2.370536 -2.303118 -2.629327 -2.301161
## [144,] -2.388904 -2.446608 -2.403746 -2.325106 -2.586113 -2.275489
## [145,] -2.390331 -2.453895 -2.410095 -2.315638 -2.525660 -2.210243
## [146,] -2.392440 -2.456317 -2.376360 -2.352454 -2.497737 -2.278395
## [147,] -2.397225 -2.457902 -2.357429 -2.325643 -2.666962 -2.251040
## [148,] -2.395424 -2.441834 -2.394073 -2.293291 -2.536719 -2.248862
## [149,] -2.415886 -2.453693 -2.372178 -2.310884 -2.567770 -2.227049
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## [4532,] -2.627984 -2.375595 -2.550015
## [4533,] -2.641062 -2.381393 -2.457887
## [4534,] -2.628170 -2.424565 -2.467041
## [4535,] -2.562952 -2.433900 -2.514760
## [4536,] -2.581195 -2.443000 -2.563197
## [4537,] -2.621010 -2.407343 -2.520032
## [4538,] -2.513191 -2.400232 -2.539916
## [4539,] -2.591207 -2.427520 -2.516499
## [4540,] -2.554616 -2.429027 -2.501839
## [4541,] -2.574987 -2.465700 -2.521710
## [4542,] -2.638721 -2.431322 -2.546799
## [4543,] -2.589676 -2.415629 -2.460474
## [4544,] -2.577170 -2.410330 -2.551478
## [4545,] -2.582515 -2.406635 -2.552642
## [4546,] -2.652023 -2.383938 -2.557829
## [4547,] -2.629731 -2.436466 -2.599337
## [4548,] -2.614730 -2.426587 -2.503888
## [4549,] -2.587908 -2.423738 -2.480807
## [4550,] -2.560627 -2.425416 -2.566241
## [4551,] -2.600340 -2.417161 -2.517326
## [4552,] -2.663779 -2.398378 -2.493314
## [4553,] -2.578187 -2.406503 -2.480786
## [4554,] -2.627591 -2.424320 -2.483845
## [4555,] -2.577463 -2.409461 -2.489973
## [4556,] -2.637599 -2.414117 -2.504586
## [4557,] -2.555762 -2.417252 -2.531026
## [4558,] -2.602093 -2.411146 -2.509800
## [4559,] -2.604620 -2.439872 -2.533590
## [4560,] -2.597296 -2.402799 -2.582644
## [4561,] -2.580427 -2.439319 -2.564863
## [4562,] -2.633121 -2.396707 -2.539950
## [4563,] -2.606385 -2.411753 -2.533197
## [4564,] -2.637097 -2.403661 -2.660809
## [4565,] -2.648755 -2.431609 -2.571741
## [4566,] -2.609848 -2.446100 -2.509461
## [4567,] -2.527303 -2.433408 -2.493866

```



```

## [4568,] -2.565253 -2.391635 -2.424261
## [4569,] -2.615310 -2.410776 -2.561913
## [4570,] -2.580059 -2.416842 -2.488427
## [4571,] -2.609277 -2.397320 -2.519027
## [4572,] -2.571369 -2.407863 -2.486572
## [4573,] -2.613124 -2.401318 -2.559359
## [4574,] -2.624531 -2.432249 -2.464621
## [4575,] -2.605110 -2.418264 -2.576531
## [4576,] -2.575788 -2.405786 -2.542219
## [4577,] -2.635617 -2.403072 -2.493782
## [4578,] -2.661888 -2.415115 -2.493923
## [4579,] -2.570145 -2.396781 -2.423957
## [4580,] -2.561722 -2.420561 -2.518066
## [4581,] -2.603054 -2.407809 -2.566343
## [4582,] -2.678715 -2.388226 -2.500125
## [4583,] -2.624077 -2.418897 -2.517060
## [4584,] -2.584239 -2.367256 -2.494188
## [4585,] -2.583405 -2.385390 -2.541231
## [4586,] -2.605102 -2.421988 -2.560244
## [4587,] -2.526614 -2.420681 -2.520948
## [4588,] -2.578977 -2.455260 -2.530570
## [4589,] -2.587148 -2.400487 -2.516226
## [4590,] -2.625609 -2.441807 -2.565065
## [4591,] -2.606488 -2.409725 -2.523316
## [4592,] -2.556972 -2.428300 -2.417861
## [4593,] -2.586780 -2.411532 -2.478061
## [4594,] -2.619623 -2.424225 -2.507686
## [4595,] -2.539316 -2.413917 -2.506163
## [4596,] -2.600369 -2.416176 -2.571592
## [4597,] -2.594662 -2.431854 -2.414302
## [4598,] -2.557300 -2.425564 -2.496231
## [4599,] -2.568643 -2.419126 -2.466351
## [4600,] -2.613903 -2.435604 -2.501341
## [4601,] -2.638120 -2.424473 -2.578528
## [4602,] -2.637561 -2.415661 -2.469475
## [4603,] -2.632145 -2.421881 -2.499033
## [4604,] -2.614394 -2.412847 -2.547481
## [4605,] -2.532318 -2.447801 -2.489053
## [4606,] -2.602054 -2.439765 -2.522351
## [4607,] -2.661126 -2.406971 -2.493391
## [4608,] -2.532785 -2.427600 -2.484570
## [4609,] -2.575902 -2.439148 -2.574752
## [4610,] -2.647912 -2.439429 -2.523298
## [4611,] -2.643017 -2.393198 -2.469070
## [4612,] -2.636445 -2.392905 -2.556422
## [4613,] -2.556231 -2.433274 -2.511854
## [4614,] -2.604369 -2.399213 -2.513884
## [4615,] -2.637036 -2.410953 -2.551339
## [4616,] -2.545195 -2.407405 -2.614131
## [4617,] -2.602284 -2.419083 -2.575060
## [4618,] -2.580331 -2.437689 -2.539218
## [4619,] -2.559926 -2.432245 -2.478421
## [4620,] -2.686266 -2.414610 -2.459158
## [4621,] -2.617157 -2.434470 -2.565484

```

[4622,] -2.601606 -2.424588 -2.507440
[4623,] -2.558622 -2.418454 -2.508853
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[4625,] -2.569454 -2.419125 -2.601488
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[4627,] -2.642570 -2.426373 -2.472396
[4628,] -2.590444 -2.428630 -2.552011
[4629,] -2.664356 -2.407219 -2.539990
[4630,] -2.574773 -2.410356 -2.490795
[4631,] -2.658602 -2.395124 -2.496193
[4632,] -2.575310 -2.407432 -2.548946
[4633,] -2.600928 -2.400481 -2.518158
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[4638,] -2.586711 -2.426070 -2.526794
[4639,] -2.641665 -2.399441 -2.556120
[4640,] -2.573931 -2.437072 -2.523531
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[4642,] -2.604115 -2.440040 -2.596583
[4643,] -2.620178 -2.395606 -2.565713
[4644,] -2.654551 -2.416921 -2.424414
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[4653,] -2.601571 -2.438905 -2.543313
[4654,] -2.592936 -2.424036 -2.565967
[4655,] -2.582351 -2.397842 -2.516250
[4656,] -2.547708 -2.405052 -2.518821
[4657,] -2.584435 -2.404027 -2.524034
[4658,] -2.591271 -2.439484 -2.520879
[4659,] -2.663395 -2.434065 -2.468497
[4660,] -2.682117 -2.415072 -2.483978
[4661,] -2.587997 -2.436116 -2.485214
[4662,] -2.615457 -2.406806 -2.479571
[4663,] -2.726557 -2.405218 -2.456821
[4664,] -2.586579 -2.412436 -2.566221
[4665,] -2.643832 -2.420034 -2.511355
[4666,] -2.579073 -2.401983 -2.506529
[4667,] -2.612898 -2.414345 -2.525972
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[4671,] -2.604075 -2.398518 -2.492290
[4672,] -2.577786 -2.447373 -2.480742
[4673,] -2.687689 -2.405299 -2.495612
[4674,] -2.567581 -2.403483 -2.515593
[4675,] -2.649392 -2.415827 -2.486934

```

## [4676,] -2.676235 -2.401749 -2.489220
## [4677,] -2.600350 -2.397685 -2.474568
## [4678,] -2.633088 -2.409121 -2.525496
## [4679,] -2.600763 -2.392899 -2.514887
## [4680,] -2.619148 -2.403195 -2.507413
## [4681,] -2.607358 -2.424226 -2.530241
## [4682,] -2.630762 -2.379575 -2.440031
## [4683,] -2.611855 -2.428014 -2.506390
## [4684,] -2.612658 -2.422143 -2.542359
## [4685,] -2.600960 -2.432726 -2.510634
## [4686,] -2.646784 -2.440633 -2.528742
## [4687,] -2.597707 -2.415458 -2.485323
## [4688,] -2.688648 -2.385103 -2.482854
## [4689,] -2.625396 -2.430951 -2.409051
## [4690,] -2.626635 -2.402305 -2.519272
## [4691,] -2.619840 -2.447025 -2.502566
## [4692,] -2.608900 -2.434087 -2.499678
## [4693,] -2.610954 -2.416265 -2.456471
## [4694,] -2.626042 -2.407591 -2.514497
## [4695,] -2.591852 -2.405875 -2.558844
## [4696,] -2.652110 -2.422910 -2.496461
## [4697,] -2.599089 -2.391521 -2.552653
## [4698,] -2.649484 -2.426799 -2.603270
## [4699,] -2.634804 -2.405875 -2.524716
## [4700,] -2.564848 -2.439954 -2.501217
## [4701,] -2.615959 -2.398570 -2.507808
## [4702,] -2.655500 -2.428469 -2.571654
## [4703,] -2.645138 -2.434023 -2.597333
## [4704,] -2.583896 -2.434174 -2.543300
## [4705,] -2.649622 -2.403913 -2.536040
## [4706,] -2.618115 -2.423057 -2.517015
## [4707,] -2.686508 -2.426962 -2.555509
## [4708,] -2.624128 -2.397919 -2.528642
## [4709,] -2.591055 -2.410849 -2.498121
## [4710,] -2.608739 -2.431596 -2.492615
## [4711,] -2.593561 -2.399217 -2.575791
## [4712,] -2.632179 -2.412999 -2.480201
## [4713,] -2.573500 -2.442390 -2.502885
## [4714,] -2.688771 -2.388394 -2.527078
## [4715,] -2.599422 -2.382613 -2.519557
## [4716,] -2.620306 -2.412915 -2.546188
## [4717,] -2.640510 -2.401899 -2.528911
## [4718,] -2.562723 -2.407349 -2.494100
## [4719,] -2.558492 -2.411321 -2.534635
## [4720,] -2.621203 -2.426951 -2.518939
## [4721,] -2.699585 -2.432392 -2.524560
## [4722,] -2.595941 -2.415723 -2.490917
## [4723,] -2.654971 -2.417537 -2.488394
## [4724,] -2.630496 -2.381489 -2.478783
## [4725,] -2.634451 -2.427919 -2.519330
## [4726,] -2.620971 -2.402687 -2.526452
## [4727,] -2.634284 -2.419361 -2.527256
## [4728,] -2.679259 -2.422882 -2.500451
## [4729,] -2.597066 -2.408222 -2.503458

```

```
## [4730,] -2.564875 -2.427198 -2.492145
## [4731,] -2.603999 -2.443749 -2.467107
## [4732,] -2.613499 -2.419638 -2.521348
## [4733,] -2.547643 -2.427958 -2.528947
## [4734,] -2.668360 -2.404616 -2.487739
## [4735,] -2.649663 -2.417775 -2.443852
## [4736,] -2.692610 -2.437649 -2.561876
## [4737,] -2.664628 -2.413431 -2.461505
## [4738,] -2.607154 -2.398567 -2.522278
## [4739,] -2.625538 -2.440166 -2.498241
## [4740,] -2.619362 -2.392003 -2.457293
## [4741,] -2.580836 -2.401558 -2.472606
## [4742,] -2.565672 -2.431635 -2.482923
## [4743,] -2.556115 -2.419421 -2.566686
## [4744,] -2.598399 -2.413154 -2.481727
## [4745,] -2.624989 -2.425967 -2.482402
## [4746,] -2.608610 -2.433316 -2.506116
## [4747,] -2.551869 -2.386195 -2.476059
## [4748,] -2.622722 -2.415010 -2.503126
## [4749,] -2.608983 -2.432007 -2.498048
## [4750,] -2.625791 -2.409718 -2.527641
## [4751,] -2.475395 -2.426024 -2.573553
## [4752,] -2.662011 -2.420644 -2.563570
## [4753,] -2.616369 -2.428604 -2.553457
## [4754,] -2.648234 -2.416576 -2.576542
## [4755,] -2.604273 -2.438866 -2.501210
## [4756,] -2.670320 -2.395718 -2.500347
## [4757,] -2.556876 -2.380299 -2.583077
## [4758,] -2.550765 -2.422838 -2.496044
## [4759,] -2.660792 -2.468870 -2.499900
## [4760,] -2.560342 -2.405830 -2.502231
## [4761,] -2.666674 -2.409605 -2.550271
## [ reached getOption("max.print") -- omitted 3239 rows ]

ranks <- apply(post$a_county, 1, rank)

## Posterior probabilities of being assigned every rank for each item ##
#summaries of that posterior distribution
apply(ranks,1,quantile)

##      [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]
## 0%      6   5   7   15   1   17   20   8   11    1   13    7    3
## 25%     12   8  13   18   3   20   21  13   16    2   18   10    6
## 50%     13   9  14   18   4   20   21  14   17    3   19   11    7
## 75%     15   9  15   19   5   20   21  16   17    4   19   12    7
## 100%    19  14  18   20  15   21  21  19   19   13   20   17   10
##      [,14] [,15] [,16] [,17] [,18] [,19] [,20] [,21]
## 0%         2    1   10    2    5    1    7    2
## 25%         5    1   15    8    9    2   11    5
## 50%         5    1   15    9   10    2   12    6
## 75%         6    1   16   12   11    3   13    7
## 100%        10    3   19   20   17    8   17   17
```

```

#mean ranks for each county
apply(ranks,1,mean)

## [1] 13.207000  8.817625 13.751125 18.412375  3.906125 19.877500 20.993125
## [8] 14.236125 16.391250  3.243250 18.675875 11.326625  6.707000  5.249750
## [15]  1.038625 15.292250  9.832125  9.754750  2.697875 11.779250  5.810375

#optimal ranks using squared error loss
rank(apply(ranks,1,mean))

## [1] 13  8 14 18  4 20 21 15 17  3 19 11  7  5  1 16 10  9  2 12  6

```

Position Loss Matrix

```

# Squared Error Loss Rank
# mean((ranks[1,]-1)^2) #for county 1 ranked at position 1
# mean((ranks[1,]-3)^2) #for county 1 ranked at position 3
SqErrPositionalLoss <- matrix(NA,21,21)
for (i in 1:21) {
  for (j in 1:21) {
    SqErrPositionalLoss[i,j] <- mean((ranks[i,]-j)^2)
  }
}
## b. Find optimal ranking
#using the solve_LSAP function in the clue package
library(clue)
solve_LSAP(SqErrPositionalLoss)

## Optimal assignment:
## 1 => 13, 2 => 8, 3 => 14, 4 => 18, 5 => 4, 6 => 20, 7 => 21,
## 8 => 15, 9 => 17, 10 => 3, 11 => 19, 12 => 11, 13 => 7, 14 => 5,
## 15 => 1, 16 => 16, 17 => 10, 18 => 9, 19 => 2, 20 => 12, 21 => 6

```

Creating Comparison Loss Matrix

loss associated with placing unit i before unit j

```

AbsComparisonLoss <- matrix(NA,21,21)
for (i in 1:21) {
  for (j in 1:21) {
    #AbsComparisonLoss[i,j] <- abs(prob(rank(i) > rank(j)))
    AbsComparisonLoss[i,j] <- mean(abs(ranks[i,] - ranks[j,]))
  }
}

#zero one mean(rank[i,]>rank[j,])

```

loss associated with placing unit i before unit j

```

SqErrorComparisonLoss <- matrix(NA,21,21)
for (i in 1:21) {
  for (j in 1:21) {
    SqErrorComparisonLoss[i,j] <- mean((ranks[i,]-ranks[j,])^2)
  }
}

```

```
}  
}
```

Comparison Optimization

“local search based on pairwise exchanges, a simple heuristic algorithm based on pairwise swapping of elements to find a local optimum” (see references) TODO

```
#begin optimization with positional ranking  
  
#for each i in 1:21  
    #check if pairwise swapping would improve rank
```

Other Optimization Strategies