## test of lab3

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March 29, 2016

```
setwd("C://Users//nan66//Google Drive//stt864//LAB3")
polls2008<-read.csv(file="2008-polls.csv",header=TRUE)</pre>
polls2012<-read.csv(file="2012-polls.csv",header=TRUE)</pre>
results2008<-read.csv(file="2008-results.csv",header=TRUE)
pollers<-c("ARG", "EPICMRA", "InsiderAdvantage", "MaristColl", "MasonDixon", "MuhlenbergColl",
            "QuinnipiacU", "Rasmussen", "SienaColl", "SuffolkU", "SurveyUSA", "UofCincinnati", "UofNewHamps
subsamplesID2008<-polls2008[,5]%in%pollers</pre>
polls2008sub<-polls2008[subsamplesID2008,]
subsamplesID2012<-polls2012[,5]%in%pollers</pre>
polls2012sub<-polls2012[subsamplesID2012,]</pre>
winers2008<-(results2008[,2]-results2008[,3]>0)+0
StateID2008<-results2008[,1]</pre>
Allresponses<-NULL
for (sid in 1:51)
polls2008substate<-polls2008sub[polls2008sub$State==StateID2008[sid],]
pollwiners2008state<-(polls2008substate[,2]-polls2008substate[,3]>0)+0
pollwinersIND<-(pollwiners2008state==winers2008[sid])+0</pre>
Allresponses<-c(Allresponses,pollwinersIND)
margins<-abs(polls2008sub[,2]-polls2008sub[,3])</pre>
lagtime<-rep(0,dim(polls2008sub)[1])</pre>
electiondate2008<-c("Nov 04 2008")
for (i in 1:dim(polls2008sub)[1])
lagtime[i] <- as. Date(electiondate2008, format="%b %d %Y")-as. Date(as.character(polls2008sub[i,4]), form
dataset2008<-cbind(Allresponses,as.character(polls2008sub[,1]),margins,lagtime,as.character(polls2008su
stateslist<-unique(dataset2008[which(dataset2008[,1]=="0"),2])</pre>
subdataset2008<-dataset2008[dataset2008[,2]%in%stateslist,]</pre>
resp<-as.integer(subdataset2008[,1])</pre>
statesFAC<-as.factor(subdataset2008[,2])</pre>
margins<-as.double(subdataset2008[,3])</pre>
lagtime<-as.double(subdataset2008[,4])</pre>
pollersFAC<-as.factor(subdataset2008[,5])</pre>
logitreg<-glm(resp~statesFAC+margins+lagtime+pollersFAC,family="binomial")</pre>
summary(logitreg)
```

```
## Call:
  glm(formula = resp ~ statesFAC + margins + lagtime + pollersFAC,
       family = "binomial")
##
## Deviance Residuals:
##
                      Median
                                    3Q
       Min
                 10
                                            Max
## -2.5779 -0.5603
                      0.2084
                                0.5631
                                         2.5537
##
## Coefficients:
##
                                 Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                                 0.477331
                                            0.602829
                                                       0.792 0.428466
## statesFACFL
                                -1.647375
                                            0.547285
                                                      -3.010 0.002612 **
## statesFACGA
                                                       1.171 0.241756
                                1.354619
                                            1.157192
## statesFACIN
                                            0.926903 -3.625 0.000289 ***
                                -3.359969
## statesFACMA
                                2.064918
                                            1.233361
                                                       1.674 0.094087 .
## statesFACMI
                                -0.109506
                                            0.733656
                                                     -0.149 0.881348
## statesFACMN
                                                       1.733 0.083167 .
                                1.576421
                                            0.909859
                               -0.427149
                                            0.614079
                                                      -0.696 0.486683
## statesFACMO
## statesFACMT
                                1.572071
                                            1.165776
                                                       1.349 0.177491
## statesFACNC
                                -2.289227
                                            0.641511
                                                      -3.568 0.000359 ***
## statesFACND
                                0.582515
                                            1.411664
                                                       0.413 0.679867
## statesFACNH
                                            0.770412
                                0.608812
                                                       0.790 0.429386
## statesFACNJ
                                0.562342
                                            0.953698
                                                       0.590 0.555429
## statesFACNM
                                0.115791
                                            0.722887
                                                       0.160 0.872741
## statesFACNV
                               -0.782439
                                            0.620767
                                                     -1.260 0.207511
## statesFACNY
                                1.106166
                                            1.220608
                                                       0.906 0.364808
                                            0.554890 -2.625 0.008655 **
## statesFACOH
                                -1.456813
## statesFACOR
                                2.466634
                                            1.227231
                                                       2.010 0.044440
## statesFACPA
                                0.999567
                                            0.706504
                                                       1.415 0.157125
## statesFACVA
                                -0.764514
                                            0.578862 -1.321 0.186595
## statesFACWA
                                 2.049390
                                            1.222229
                                                       1.677 0.093589
## statesFACWI
                                1.724056
                                            0.952639
                                                       1.810 0.070332 .
## statesFACWV
                                 0.176470
                                            1.192351
                                                       0.148 0.882341
                                0.243394
                                            0.038387
                                                       6.341 2.29e-10 ***
## margins
                                            0.001722
                                                      -6.128 8.89e-10
## lagtime
                                -0.010550
## pollersFACEPICMRA
                                1.884727
                                            1.341388
                                                       1.405 0.160004
## pollersFACInsiderAdvantage
                                0.831820
                                            0.586503
                                                       1.418 0.156112
                                                       1.581 0.113883
## pollersFACMaristColl
                                 1.899700
                                            1.201596
## pollersFACMasonDixon
                                 0.368782
                                            0.590033
                                                       0.625 0.531958
## pollersFACMuhlenbergColl
                                            1.516623 -0.071 0.943508
                                -0.107470
## pollersFACQuinnipiacU
                                1.742448
                                            0.629726
                                                       2.767 0.005658 **
## pollersFACRasmussen
                                0.273553
                                            0.451894
                                                       0.605 0.544948
## pollersFACSienaColl
                                15.026258 542.747543
                                                       0.028 0.977913
## pollersFACSuffolkU
                                1.166058
                                            0.920064
                                                       1.267 0.205024
                                                       1.605 0.108501
## pollersFACSurveyUSA
                                 0.831435
                                            0.518039
## pollersFACUofCincinnati
                                0.399582
                                            1.113652
                                                       0.359 0.719742
## pollersFACUofNewHampshire
                                -1.361725
                                            1.333940
                                                      -1.021 0.307335
## pollersFACZogby
                                 0.501113
                                            0.745531
                                                       0.672 0.501484
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
  (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 792.52 on 662 degrees of freedom
```

```
\mbox{\tt \#\#} Residual deviance: 492.68 on 625 degrees of freedom
```

## AIC: 568.68

##

## Number of Fisher Scoring iterations: 15

## unique(statesFAC)

## [1] CO FL GA IN MA MI MN MO MT NC ND NH NJ NM NV NY OH OR PA VA WA WI WV ## 23 Levels: CO FL GA IN MA MI MN MO MT NC ND NH NJ NM NV NY OH OR PA ... WV