summary(suyao1)

Call:

glm(formula = out ~ NrmInDeg + expe + Tztype + times + Camp +

condi + Hytype + year, family = binomial(), data = mydata1)

Deviance Residuals:

Min 1Q Median 3Q Max

-1.34789 -0.67996 -0.47190 -0.00031 2.88610

Coefficients:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -9.57291 1.77374 -5.397 6.78e-08 \*\*\*

NrmInDeg -0.42285 0.17721 -2.386 0.01703 \*

expe 0.01329 0.00644 2.064 0.03899 \*

Tztype 0.10251 0.02516 4.074 4.63e-05 \*\*\*

times -0.41111 0.18522 -2.220 0.02645 \*

Camp 0.10969 0.11471 0.956 0.33896

condi 1.59728 0.33090 4.827 1.39e-06 \*\*\*

Hytypex10 -16.84936 511.13854 -0.033 0.97370

Hytypex2 -0.04987 0.65673 -0.076 0.93946

Hytypex3 0.16791 0.63758 0.263 0.79228

Hytypex4 -1.54628 0.64404 -2.401 0.01635 \*

Hytypex5 -0.61083 0.71894 -0.850 0.39553

Hytypex6 -1.30819 0.69096 -1.893 0.05832 .

Hytypex7 -1.13447 0.88614 -1.280 0.20046

Hytypex8 -0.73110 0.62056 -1.178 0.23874

Hytypex9 17.03354 3956.18038 0.004 0.99656

year2007 0.65382 0.25424 2.572 0.01012 \*

year2008 0.74189 0.25752 2.881 0.00397 \*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 1217.9 on 1200 degrees of freedom

Residual deviance: 1035.9 on 1183 degrees of freedom

AIC: 1071.9

Number of Fisher Scoring iterations: 16

> suyao2<-glm(out~NrmOutDeg+expe+Tztype+times+Camp+condi+Hytype+year,data=mydata1,family=binomial())

> summary(suyao2)

Call:

glm(formula = out ~ NrmOutDeg + expe + Tztype + times + Camp +

condi + Hytype + year, family = binomial(), data = mydata1)

Deviance Residuals:

Min 1Q Median 3Q Max

-1.32518 -0.67441 -0.47421 -0.00031 2.90802

Coefficients:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -9.56593 1.77762 -5.381 7.39e-08 \*\*\*

NrmOutDeg -0.45887 0.22426 -2.046 0.04074 \*

expe 0.02581 0.01238 2.085 0.03711 \*

Tztype 0.10345 0.02526 4.095 4.22e-05 \*\*\*

times -0.40123 0.18493 -2.170 0.03003 \*

Camp 0.10925 0.11456 0.954 0.34023

condi 1.59543 0.33171 4.810 1.51e-06 \*\*\*

Hytypex10 -16.90824 511.68714 -0.033 0.97364

Hytypex2 -0.09418 0.65846 -0.143 0.88627

Hytypex3 0.11003 0.63926 0.172 0.86334

Hytypex4 -1.60781 0.64563 -2.490 0.01276 \*

Hytypex5 -0.65312 0.72124 -0.906 0.36517

Hytypex6 -1.37677 0.69300 -1.987 0.04696 \*

Hytypex7 -1.20788 0.88694 -1.362 0.17325

Hytypex8 -0.77966 0.62165 -1.254 0.20978

Hytypex9 16.84663 3956.18039 0.004 0.99660

year2007 0.65274 0.25352 2.575 0.01003 \*

year2008 0.74514 0.25666 2.903 0.00369 \*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 1217.9 on 1200 degrees of freedom

Residual deviance: 1037.7 on 1183 degrees of freedom

AIC: 1073.7

Number of Fisher Scoring iterations: 16

> suyao3<-glm(out~NrmDegree+expe+Tztype+times+Camp+condi+Hytype+year,data=mydata1,family=binomial())

> summary(suyao3)

Call:

glm(formula = out ~ NrmDegree + expe + Tztype + times + Camp +

condi + Hytype + year, family = binomial(), data = mydata1)

Deviance Residuals:

Min 1Q Median 3Q Max

-1.3558 -0.6786 -0.4690 -0.0003 2.9753

Coefficients:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -9.56356 1.77691 -5.382 7.36e-08 \*\*\*

NrmDegree -0.50161 0.18507 -2.710 0.00672 \*\*

expe 0.02893 0.01071 2.702 0.00690 \*\*

Tztype 0.10568 0.02529 4.178 2.93e-05 \*\*\*

times -0.41278 0.18529 -2.228 0.02589 \*

Camp 0.11290 0.11476 0.984 0.32523

condi 1.59816 0.33155 4.820 1.43e-06 \*\*\*

Hytypex10 -16.90417 510.85889 -0.033 0.97360

Hytypex2 -0.11325 0.65895 -0.172 0.86354

Hytypex3 0.10550 0.63950 0.165 0.86896

Hytypex4 -1.60943 0.64611 -2.491 0.01274 \*

Hytypex5 -0.67911 0.72178 -0.941 0.34677

Hytypex6 -1.39044 0.69395 -2.004 0.04511 \*

Hytypex7 -1.21481 0.88857 -1.367 0.17158

Hytypex8 -0.77744 0.62220 -1.250 0.21148

Hytypex9 16.77950 3956.18038 0.004 0.99662

year2007 0.65339 0.25435 2.569 0.01020 \*

year2008 0.74322 0.25759 2.885 0.00391 \*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 1217.9 on 1200 degrees of freedom

Residual deviance: 1033.8 on 1183 degrees of freedom

AIC: 1069.8

Number of Fisher Scoring iterations: 16

> suyao4<-glm(out~nBetweenness+expe+Tztype+times+Camp+condi+Hytype+year,data=mydata1,family=binomial())

> summary(suyao4)

Call:

glm(formula = out ~ nBetweenness + expe + Tztype + times + Camp +

condi + Hytype + year, family = binomial(), data = mydata1)

Deviance Residuals:

Min 1Q Median 3Q Max

-1.3084 -0.6690 -0.4822 -0.0003 2.8467

Coefficients:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -9.562e+00 1.771e+00 -5.398 6.74e-08 \*\*\*

nBetweenness -7.174e-02 5.410e-02 -1.326 0.18481

expe 1.143e-02 8.409e-03 1.359 0.17408

Tztype 1.004e-01 2.516e-02 3.988 6.66e-05 \*\*\*

times -3.912e-01 1.848e-01 -2.117 0.03424 \*

Camp 1.033e-01 1.145e-01 0.902 0.36722

condi 1.594e+00 3.303e-01 4.825 1.40e-06 \*\*\*

Hytypex10 -1.690e+01 5.118e+02 -0.033 0.97366

Hytypex2 -4.122e-02 6.575e-01 -0.063 0.95001

Hytypex3 1.539e-01 6.387e-01 0.241 0.80957

Hytypex4 -1.580e+00 6.450e-01 -2.449 0.01433 \*

Hytypex5 -6.024e-01 7.197e-01 -0.837 0.40258

Hytypex6 -1.319e+00 6.914e-01 -1.908 0.05639 .

Hytypex7 -1.147e+00 8.856e-01 -1.296 0.19509

Hytypex8 -7.688e-01 6.214e-01 -1.237 0.21604

Hytypex9 1.713e+01 3.956e+03 0.004 0.99654

year2007 6.569e-01 2.532e-01 2.594 0.00947 \*\*

year2008 7.555e-01 2.564e-01 2.946 0.00322 \*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 1217.9 on 1200 degrees of freedom

Residual deviance: 1040.3 on 1183 degrees of freedom

AIC: 1076.3

Number of Fisher Scoring iterations: 16

summary(mydata)

id out NrmOutDeg NrmInDeg NrmDegree nBetweenness

Min. : 1.0 0:1328 Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. : 0.000

1st Qu.: 416.5 1: 335 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.: 0.000

Median : 832.0 Median :0.0810 Median :0.0810 Median :0.0810 Median : 0.000

Mean : 832.0 Mean :0.5178 Mean :0.4312 Mean :0.6207 Mean : 1.271

3rd Qu.:1247.5 3rd Qu.:0.4850 3rd Qu.:0.5660 3rd Qu.:0.6470 3rd Qu.: 0.893

Max. :1663.0 Max. :3.4790 Max. :3.6410 Max. :4.5310 Max. :14.487

expe Tztype times Camp condi Hytype

Min. : 0.00 Min. : 1.000 Min. :0.0000 Min. :1.643 Min. :0.834 x8 :729

1st Qu.: 0.00 1st Qu.: 1.000 1st Qu.:0.0000 1st Qu.:1.822 1st Qu.:1.547 x4 :357

Median : 2.00 Median : 2.000 Median :1.0000 Median :1.854 Median :1.556 x3 :156

Mean : 8.71 Mean : 3.348 Mean :0.6097 Mean :1.868 Mean :1.560 x2 :128

3rd Qu.: 9.00 3rd Qu.: 4.000 3rd Qu.:1.0000 3rd Qu.:1.921 3rd Qu.:1.572 x6 :115

Max. :72.00 Max. :20.000 Max. :1.0000 Max. :2.074 Max. :1.773 x10 : 79

(Other): 99

year

2006:468

2007:616

2008:579