Project: Propensity Score on Yahoo Personals Data 2004-2005, M. Sherrod

R Packages

You will need to use an R package that you may not already have installed, arm.

```
# load data
YHdatNA <- OG_YH_test
colnames(YHdatNA)</pre>
```

Load the data and choose confounders (5 points)

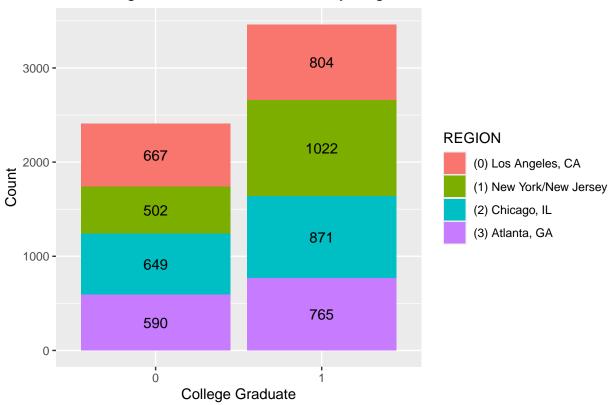
```
[1] "ID"
                                     "SEX"
##
##
     [3] "REGION"
                                     "AGE"
##
     [5] "ETHNICITY"
                                     "MARSTAT"
##
     [7] "BODY"
                                     "HEIGHT FT"
##
     [9] "HEIGHT_IN"
                                     "SMOKING"
    [11] "DRINKING"
                                     "LIVE_ALONE"
##
##
    [13] "LIVE KIDS"
                                     "LIVE PAR"
    [15] "LIVE_PETS"
                                     "LIVE_ROOM"
    [17] "LIVE_FAM"
                                     "LIVE_PARTY"
##
##
    [19] "HAVEKIDS"
                                     "WANTKIDS"
##
    [21] "EDUCATION"
                                     "CGRAD"
                                     "OCCUP"
    [23] "EMPSTAT"
    [25] "INCOME"
                                     "RELIGION"
##
##
    [27] "SERVICES"
                                     "POLITICS"
##
    [29] "LANG_ENGLISH"
                                     "LANG_FRENCH"
    [31] "LANG_GERMAN"
##
                                     "LANG_ITALIAN"
##
    [33] "LANG_SPANISH"
                                     "LANG_PORTUGUESE"
##
    [35] "LANG_DUTCH"
                                     "LANG_CHINESE"
    [37] "LANG_JAPANESE"
                                     "LANG_ARABIC"
##
    [39] "LANG_RUSSIAN"
                                     "LANG_HEBREW"
##
    [41] "LANG_HINDI"
                                     "LANG_TAGALOG"
##
    [43] "LANG_URDU"
                                     "D_MILES"
##
    [45] "D_YOUNGEST"
                                     "D_OLDEST"
    [47] "D_MARSTAT_ANY"
##
                                     "D_MARSTAT_SINGLE"
                                     "D_MARSTAT_WID"
##
    [49] "D_MARSTAT_DIV"
##
    [51] "D_MARSTAT_SEP"
                                     "D_BODY_ANY"
    [53] "D_BODY_SLIM"
                                     "D_BODY_SLENDER"
##
    [55] "D_BODY_AVERAGE"
                                     "D_BODY_ATH"
                                     "D_BODY_THICK"
##
    [57] "D_BODY_FIT"
    [59] "D_BODY_EXTRA"
                                     "D_BODY_LARGE"
##
##
    [61] "D_BODY_VOLUP"
                                     "D_BODY_CURVY"
##
    [63] "D_MINHEIGHT_FT"
                                     "D_MINHEIGHT_IN"
##
    [65] "D_MAXHEIGHT_FT"
                                     "D_MAXHEIGHT_IN"
    [67] "D_EYES_ANY"
                                     "D_EYES_BLACK"
    [69] "D_EYES_BLUE"
                                     "D_EYES_BROWN"
```

```
[71] "D_EYES_GRAY"
                                    "D_EYES_GREEN"
##
##
    [73] "D_EYES_HAZEL"
                                    "D_HAIR_ANY"
    [75] "D_HAIR_AUBURN"
                                     "D_HAIR_BLACK"
    [77] "D_HAIR_BLONDE"
##
                                     "D_HAIR_DARKBLONDE"
##
    [79] "D_HAIR_LIGHTBROWN"
                                     "D_HAIR_DARKBROWN"
##
    [81] "D HAIR RED"
                                     "D HAIR WHITE"
##
    [83] "D HAIR BALD"
                                     "D_HAIR_LITGRAY"
    [85] "D_ETHNIC_ANY"
##
                                     "D_ETHNIC_BLACK"
##
    [87] "D_ETHNIC_ASIAN"
                                     "D_ETHNIC_WHITE"
    [89] "D_ETHNIC_EINDIAN"
                                     "D_ETHNIC_LATINO"
    [91] "D_ETHNIC_MIDEAST"
                                     "D_ETHNIC_NATIVE"
##
    [93] "D_ETHNIC_PACIFIC"
                                     "D_ETHNIC_INTER"
##
    [95] "D_ETHNIC_OTHER"
                                     "D_SMOKE_ANY"
                                     "D_SMOKE_OCC"
    [97] "D_SMOKE_NO"
    [99] "D_SMOKE_OFTEN"
                                     "D_DRINK_ANY"
   [101] "D_DRINK_NO"
                                     "D_DRINK_SOCIAL"
   [103] "D_DRINK_REG"
                                    "D_LIVING_ANY"
   [105] "D LIVING ALONE"
                                     "D LIVING KIDS"
   [107] "D_LIVING_PARENTS"
                                     "D_LIVING_PETS"
   [109] "D_LIVING_ROOMMATE"
                                     "D_LIVING_FAMILY"
## [111] "D_LIVING_PARTY"
                                    "D_KIDS_ANY"
  [113] "D_KIDS_NO"
                                     "D_KIDS_HOMEFT"
## [115] "D_KIDS_HOMEPT"
                                     "D_KIDS_NOTHOME"
## [117] "D_WANTKIDS_ANY"
                                     "D_WANTKIDS_NO"
  [119] "D_WANTKIDS_YES"
                                     "D_WANTKIDS_NOTSURE"
  [121] "D EDUC"
                                     "D_CGRAD"
   [123] "D_EMPSTAT_ANY"
                                     "D_EMPSTAT_FT"
                                    "D_EMPSTAT_HOME"
## [125] "D_EMPSTAT_PT"
## [127] "D_EMPSTAT_RETIRED"
                                     "D_EMPSTAT_SELF"
## [129] "D_EMPSTAT_STUDENT"
                                     "D_EMPSTAT_UNEMP"
## [131] "D_EMPSTAT_ATHOME"
                                     "D_OCC_ANY"
  [133] "D_OCC_ART"
                                     "D_OCC_BANK"
  [135] "D_OCC_CLER"
                                     "D_OCC_COMP"
  [137] "D_OCC_CONSTR"
                                     "D_OCC_EDUC"
                                    "D_OCC_EXEC"
  [139] "D OCC MEDIA"
## [141] "D_OCC_TRAVEL"
                                    "D_OCC_LEGAL"
## [143] "D OCC MANU"
                                     "D OCC MED"
## [145] "D_OCC_POLITICS"
                                     "D_OCC_SALES"
                                    "D_OCC_TRANSPORT"
## [147] "D_OCC_TECH"
## [149] "D_OCC_FOOD"
                                     "D_OCC_OTHER"
  [151] "D INCOME"
                                     "D_FAITH_ANY"
   [153] "D_FAITH_BUDDHIST"
                                     "D_FAITH_CHRISTIAN"
                                    "D_FAITH_JEWISH"
## [155] "D_FAITH_HINDU"
                                    "D_FAITH_AGNOSTIC"
   [157] "D_FAITH_ISLAM"
## [159] "D_FAITH_PROTESTANT"
                                     "D_FAITH_CATHOLIC"
## [161] "D_FAITH_ATHEIST"
                                     "D_FAITH_LDS"
## [163] "D_FAITH_CHRISTIAN_OTHER"
                                    "D_FAITH_NOTRELIG"
   [165] "D_FAITH_SPIRITUAL"
                                     "D_FAITH_SCIENT"
  [167] "D_FAITH_OTHER"
                                     "D_SERVICE_ANY"
## [169] "D_SERVICE_MORE"
                                     "D_SERVICE_WEEKLY"
## [171] "D_SERVICE_MONTHLY"
                                    "D_SERVICE_HOLIDAYS"
## [173] "D_SERVICE_RARELY"
                                     "D SERVICE NEVER"
## [175] "D_POLITICS_ANY"
                                     "D_POLITICS_VCONS"
## [177] "D_POLITICS_CONS"
                                     "D POLITICS MIDDLE"
```

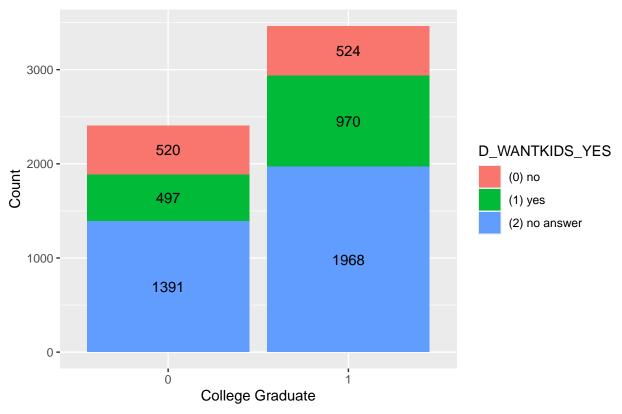
```
## [179] "D POLITICS LIB"
                                    "D_POLITICS_VLIB"
## [181] "D_POLITICS_NOTPOL"
                                    "D_LANG_ANY"
                                    "D LANG FRENCH"
## [183] "D LANG ENGLISH"
## [185] "D_LANG_GERMAN"
                                    "D_LANG_ITALIAN"
## [187] "D_LANG_SPANISH"
                                    "D_LANG_PORTUGUESE"
## [189] "D LANG DUTCH"
                                    "D LANG CHINESE"
## [191] "D LANG JAPANESE"
                                    "D LANG ARABIC"
                                    "D_LANG_HEBREW"
## [193] "D_LANG_RUSSIAN"
## [195] "D_LANG_HINDI"
                                    "D_LANG_TAGALOG"
## [197] "D_LANG_URDU"
                                    "PERMEX"
## [199] "PERPR"
                                    "PERCUB"
## [201] "PEROTLAT"
                                    "PERHIS"
## [203] "PERWHT"
                                    "PERBLK"
## [205] "PERAMIND"
                                    "PERASN"
## [207] "PERISLD"
                                    "PEROTHRACE"
## [209] "PERMLTRAC"
summary(YHdatNA$CGRAD)
##
      Min. 1st Qu. Median
                              Mean 3rd Qu.
                                               Max.
## 0.0000 0.0000 1.0000 0.5898 1.0000 1.0000
sum(YHdatNA$CGRAD == 1) #3462
## [1] 3462
sum(YHdatNA$CGRAD == 0) #2408
## [1] 2408
# print out the names of all your confounders
YHdatNA NAMES <- YHdatNA %>% dplyr::select(-c(1, 21:22, 44:209)) #removing ID column, EDUCATION AND CGR
confounder_names <- colnames(YHdatNA_NAMES)</pre>
confounder_names
## [1] "SEX"
                          "REGION"
                                             "AGE"
                                                                "ETHNICITY"
## [5] "MARSTAT"
                          "BODY"
                                             "HEIGHT_FT"
                                                                "HEIGHT_IN"
## [9] "SMOKING"
                                             "LIVE ALONE"
                                                                "LIVE KIDS"
                          "DRINKING"
## [13] "LIVE PAR"
                                             "LIVE ROOM"
                                                                "LIVE FAM"
                          "LIVE PETS"
## [17] "LIVE PARTY"
                          "HAVEKIDS"
                                             "WANTKIDS"
                                                                "EMPSTAT"
## [21] "OCCUP"
                          "INCOME"
                                             "RELIGION"
                                                                "SERVICES"
## [25] "POLITICS"
                          "LANG_ENGLISH"
                                             "LANG_FRENCH"
                                                                "LANG_GERMAN"
## [29] "LANG_ITALIAN"
                          "LANG_SPANISH"
                                             "LANG_PORTUGUESE" "LANG_DUTCH"
## [33] "LANG_CHINESE"
                          "LANG_JAPANESE"
                                             "LANG_ARABIC"
                                                                "LANG_RUSSIAN"
## [37] "LANG_HEBREW"
                          "LANG_HINDI"
                                             "LANG_TAGALOG"
                                                                "LANG_URDU"
#Plotting Data
#plotting counts of cGrad by region
pcgradreg <- ggplot(data = YHdatNA, aes(x = as.factor(CGRAD), fill = REGION)) +</pre>
    geom_bar() +
    labs(title = "No. College Grads and Non-Grads by Region", # Adding title
       x = "College Graduate", # X-axis label
       y = "Count") +
  geom_text(stat = 'count', aes(label = ..count..), position = position_stack(vjust = 0.5))
pcgradreg
```

```
## Warning: The dot-dot notation (`..count..`) was deprecated in ggplot2 3.4.0.
## i Please use `after_stat(count)` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

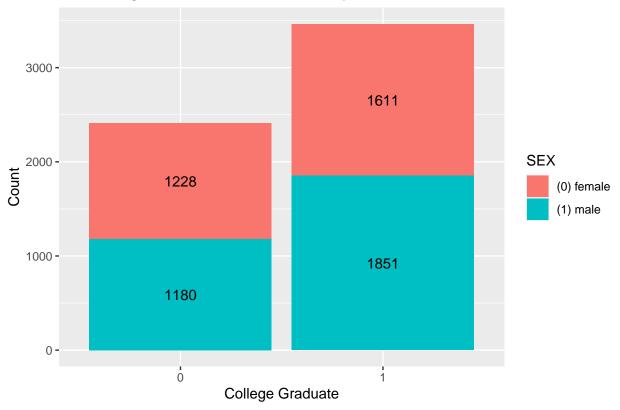
No. College Grads and Non-Grads by Region

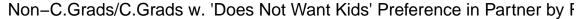


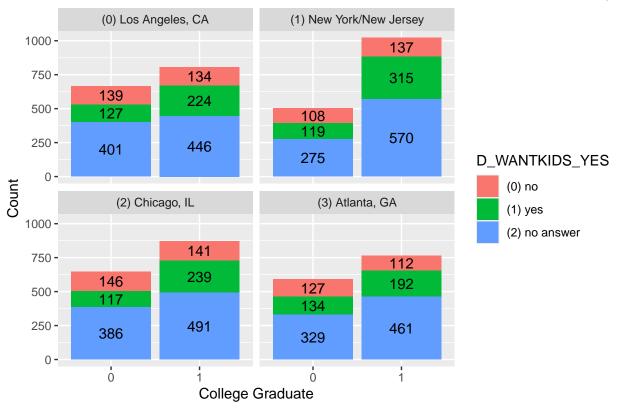
Non-C. Grads and C. Grads w/ 'Does Not Want Kids' Preference in Partne











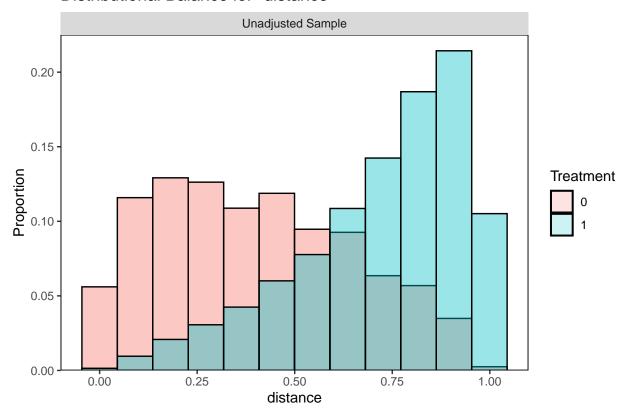
Step 2: Look at original balance and overlap #PROBIT MODELS

```
bal_ov_B4_prob_ATC <- matchit(CGRAD ~ SEX + REGION + AGE + ETHNICITY + MARSTAT + BODY + HEIGHT_FT + HE
                                               method = NULL, distance = "glm", link = "probit", estimand = "ATC")
bal_ov_B4_prob_ATC
## A matchit object
        - method: None (no matching)
##
        - distance: Propensity score
##
                                             - estimated with probit regression
       - number of obs.: 5870 (original)
## - target estimand: ATC
## - covariates: SEX, REGION, AGE, ETHNICITY, MARSTAT, BODY, HEIGHT_FT, HEIGHT_IN, SMOKING, DRINKING, I
sum_bal4_ATC <- summary(bal_ov_B4_prob_ATC)</pre>
summarydf_sum_bal4_ATC <- cbind(</pre>
     "Means Treated B4" = sum_bal4_ATC$sum.all[, "Means Treated"],
     "Means Treated M" = sum_bal4_ATC$sum.matched[, "Means Treated"],
     "Means Control B4" = sum_bal4_ATC$sum.all[, "Means Control"],
     "Means Control M" = sum_bal4_ATC$sum.matched[,"Means Control"],
     "Std. Mean Diff. B4" = sum_bal4_ATC$sum.all[,"Std. Mean Diff."],
     "Std. Mean Diff. M" = sum_bal4_ATC$sum.matched[,"Std. Mean Diff."],
     "Var. Ratio B4" = sum_bal4_ATC\sum.all[, "Var. Ratio"],
     "Var. Ratio M" = sum_bal4_ATC$sum.matched[,"Var. Ratio"],
     "eCDF Mean B4" = sum_bal4_ATC$sum.all[,"eCDF Mean"],
```

```
"eCDF Mean M" = sum_bal4_ATC$sum.matched[,"eCDF Mean"],
  "eCDF Max B4" = sum_bal4_ATC$sum.all[,"eCDF Max"],
  "eCDF Max M" = sum_bal4_ATC$sum.matched[,"eCDF Max"],
 "Std. Pair Dist. B4" = sum_bal4_ATC$sum.all[, "Std. Pair Dist."],
  "Std. Pair Dist. M" = sum_bal4_ATC$sum.matched[,"Std. Pair Dist."]
summarydf_sum_bal4_ATC <- as.data.frame(summarydf_sum_bal4_ATC)</pre>
view(summarydf_sum_bal4_ATC)
summarynn_sum_bal4_ATC <- sum_bal4_ATC$nn</pre>
summarynn_sum_bal4_ATC
                 Control Treated
##
## All (ESS)
                    2408
                            3462
## All
                    2408
                            3462
## Matched (ESS)
                    2408
                            3462
                    2408
                            3462
## Matched
## Unmatched
                       0
## Discarded
                       0
                               0
bal.plot(bal_ov_B4_prob_ATC, type = "histogram") #plot looks pretty good
## No `var.name` was provided. Displaying balance for distance.
## Warning: No shared levels found between `names(values)` of the manual scale and the
```

data's colour values.

Distributional Balance for "distance"



stdm_summarydf_sum_bal4_ATC <- summarydf_sum_bal4_ATC[order(-abs(summarydf_sum_bal4_ATC\$"Std. Mean Diff
table1 <- round(head(stdm_summarydf_sum_bal4_ATC, n= 7), digits = 4)
write.csv(table1, "table1.csv", row.names = T)</pre>

kableExtra::kable(stdm_summarydf_sum_bal4_ATC)

	Means	Means		Var.	eCDF	eCDF	
	Treated	Control	Std. Mean	Ratio	Mean	Max	Std. Pair
	B4	B4	Diff. B4	B4	B4	B4	Dist. B4
distance	0.7226382	0.3998113	1.3009268	0.7505352	0.3311568	0.5102950	NA
ETHNICITY(1) Asian	0.3032929	0.1362126	0.4870943	NA	0.1670803	0.1670803	NA
INCOME(7) \$150,000+	0.0447718	0.0074751	0.4330041	NA	0.0372967	0.0372967	NA
INCOME(6) \$100,000 to	0.0450607	0.0078904	0.4201144	NA	0.0371703	0.0371703	NA
\$149,999							
ETHNICITY(4)	0.1770653	0.3629568	-	NA	0.1858915	0.1858915	NA
Hispanic/Latino			0.3865874				
LIVE_ALONE(1) yes	0.4020797	0.2421096	0.3734475	NA	0.1599701	0.1599701	NA
AGE	32.6002311	29.7549834	0.3413698	0.6756963	0.0863779	0.2259474	NA
LANG_CHINESE(1) yes	0.0834778	0.0286545	0.3286108	NA	0.0548233	0.0548233	NA
INCOME(5) \$75,000 to	0.0701906	0.0228405	0.3169459	NA	0.0473501	0.0473501	NA
\$99,999							
OCCUP(05)	0.0797227	0.0290698	0.3015017	NA	0.0506529	0.0506529	NA
education/academic							
research							
HAVEKIDS(0) no	0.7833622	0.6465947	0.2861083	NA	0.1367675	0.1367675	NA

	Means	Means	C 1 15	Var.	eCDF eCDF	C. I. D.
	Treated B4	Control B4	Std. Mean Diff. B4	Ratio B4	Mean Max B4 B4	Std. Pair Dist. B4
LIVE PAR(1) yes	0.0427499	0.1378738	_	NA	0.0951239 0.0951239	NA
	0.0 -2 , -00	3.23.3.33	0.2759074		0.000-200	
LIVE_ALONE(0) no	0.2845176	0.4202658	-	NA	0.13574820.1357482	NA
_ (-)			0.2750157			
BODY(3) athletic	0.3379549	0.2296512	0.2574931	NA	0.10830380.1083038	NA
INCOME(1) less than	0.0222415	0.0980066	-	NA	0.07576520.0757652	
\$24,999			0.2548239			
SMOKING(1) no	0.8492201	0.7379568	0.2530172	NA	0.11126330.1112633	NA
EMPSTAT(0) full-time	0.7712305	0.6511628	0.2519243	NA	0.12006770.1200677	NA
INCOME(2) \$25,000 to	0.0421722	0.1200166	-	NA	0.07784450.0778445	NA
\$34,999y			0.2395354			
ETHNICITY(2) Caucasian	0.2954939	0.1997508	0.2394697	NA	0.09574310.0957431	NA
LIVE_PAR(0) no	0.6415367	0.5236711	0.2359958	NA	0.11786560.1178656	
HAVEKIDS(1) yes, at	0.0733680	0.1594684	-	NA	0.08610040.0861004	NA
home full-time			0.2351749			
OCCUP(01)	0.1181398	0.0622924	0.2310746	NA	0.05584740.0558474	NA
banking/financial						
services/real estate	0.0400101	0.1004010		37.4	0.05404500.0540450	37.4
EMPSTAT(5) student	0.0462161	0.1204319	-	NA	0.0742158 0.0742158	NA
0.000170 (00)	0.0000000	0.000=0.40	0.2280295	37.4	0.00000=1.0.00000=1	37.4
OCCUP(02)	0.0233969	0.0867940	-	NA	0.0633971 0.0633971	NA
clerical/administrative	0.400.4400	0.1000000	0.2251855	37.4		37.4
POLITICS(3) liberal	0.1964183	0.1229236	0.2238306	NA	0.0734947 0.0734947	
BODY(5) thick	0.0450607	0.1146179	-	NA	0.06955730.0695573	NA
DEGLON(4) N	0.0050051	0.0004=40	0.2183489	37.4	0.000=000000000=000	37.4
REGION(1) New York/New Jersey	0.2952051	0.2084718	0.2135154	NA	0.0867333 0.0867333	NA
EMPSTAT(1) part-time	0.0297516	0.0897010	-	NA	0.05994940.0599494	NA
() 1			0.2097946			
POLITICS(5) not political	0.1129405	0.1951827	-	NA	0.08224220.0822422	NA
() 1			0.2075036			
RELIGION(07) Hindu	0.0066436	0.0008306	0.2017872	NA	0.00581300.0058130	NA
OCCUP(17) other	0.0866551	0.1565615	-	NA	0.0699063 0.0699063	NA
,			0.1923745			
LANG FRENCH(1) yes	0.0548816	0.0249169	0.1922386	NA	0.02996460.0299646	NA
OCCUP(07)	0.0774119	0.0398671	0.1919007	NA	0.03754480.0375448	NA
executive/management						
SMOKING(2) occasionally	0.0930098	0.1640365	-	NA	0.07102670.0710267	NA
,			0.1918041			
LIVE_KIDS(1) yes	0.0606586	0.1237542	-	NA	0.06309560.0630956	NA
_ (/ v			0.1916046			
RELIGION(08) Jewish	0.0199307	0.0058140	0.1856796	NA	0.0141167 0.0141167	NA
LANG_TAGALOG(1) yes	0.0352397	0.0137043	0.1852342	NA	0.02153540.0215354	
WANTKIDS(1) yes	0.4560947	0.3700166	0.1782862	NA	0.0860781 0.0860781	
OCCUP(14) technical	0.0843443	0.0469269	0.1769292	NA	0.0374174 0.0374174	
science/engineering						1,11
WANTKIDS(0) no	0.1016753	0.1656977	_	NA	0.0640223 0.0640223	NA
- 2(0)0	5_5.05		0.1721915		11 122 000 1020	1,11
LIVE_KIDS(0) no	0.6239168	0.5382060	0.1719243	NA	0.0857108 0.0857108	NA
POLITICS(2) middle of	0.3076256	0.2350498	0.1711573	NA	0.0725758 0.0725758	
the road	- : 3 <u>-4</u> 4					

	Means	Means		Var.	eCDF	eCDF	
	Treated B4	Control B4	Std. Mean Diff. B4	Ratio B4	Mean B4	Max B4	Std. Pair Dist. B4
			Діп. В4				
ETHNICITY(0) African	0.2241479	0.3010797	_	NA	0.0769318	80.0769318	NA
American			0.1677071				
RELIGION(14) Other	0.0375505	0.0830565	-	NA	0.0455059	90.0455059	NA
OCCUP(10)	0.0545004	0.1074017	0.1648959	D.T.A.	0.0500000	0.0.0.00000	NT A
OCCUP(18) no answer	0.0745234	0.1274917	0.1500145	NA	0.0529683	30.0529683	NA
I ANG CDANICIT(1)	0.1707100	0.0046046	0.1588145	NT A	0.000004	0.0.0000040	NT A
LANG_SPANISH(1) yes	0.1707106	0.2346346	0.1508459	NA	0.0639240	0.0639240	NA
LANG_HINDI(1) yes	0.0127094	0.0037375	0.1308439 0.1470291	NA	0.0000710	0.0089719	NA
POLITICS(6) no answer	0.0127094 0.2697863	0.0037373	0.1470291	NA NA		20.0690842	NA NA
FOLITICS(0) no answer	0.2097603	0.3300104	0.1459548	NA	0.0090642	20.0090642	IVA
LANG SPANISH(0) no	0.5389948	0.4676080	0.1439348 0.1430742	NA	0.0713869	80.0713868	NA
SMOKING(3) often	0.0231080	0.0539867	0.1450742	NA		70.0308787	NA
SMORING(5) often	0.0201000	0.0000001	0.1366365	1111	0.0000101	0.0000101	1111
OCCUP(11)	0.0872328	0.0573090	0.1300303 0.1287423	NA	0 0200238	80.0299238	NA
medical/health services	0.0012320	0.0575050	0.1201420	11/1	0.0233230	0.0233230	11/1
RELIGION(10) Spiritual	0.1045638	0.0714286	0.1286610	NA	0.0331353	3 0.0331353	NA
but not religious	0.1040000	0.0114200	0.1200010	1111	0.0001000	0.0001000	1111
EMPSTAT(4)	0.1106297	0.0768272	0.1269256	NA	0.033802	50.0338025	NA
self-employed	0.1100251	0.0100212	0.1203200	1111	0.000002	0.0000020	1111
OCCUP(15) transportation	0.0095321	0.0315615	_	NA	0.0220294	10.0220294	NA
occor (19) transportation	0.0000021	0.0010010	0.1260051	1111	0.022020	10.0220201	1171
INCOME(4) \$50,000 to	0.1282496	0.0921927	0.1246359	NA	0.0360569	90.0360569	NA
\$74,999	0.1202100	0.0021021	0.1210000	1111	0.0000000	0.0000000	1111
HAVEKIDS(3) yes, but	0.0805893	0.1187708	_	NA	0.038181	50.0381815	NA
not at home	0.0000000	0.1101100	0.1180195	1111	0.0001010	0.0001010	1111
LANG_PORTUGUESE(1)	0.0147314	0.0058140	0.1172923	NA	0.0089174	10.0089174	NA
yes	0.011.011	0.0000110	0.11.1020		0.00001.	10.00001.1	1,11
LANG JAPANESE(1) yes	0.0259965	0.0128738	0.1164091	NA	0.0131228	8 0.0131228	NA
WANTKIDS(2) not sure	0.2400347	0.2927741	_	NA		10.0527394	NA
,			0.1159017				
OCCUP(16) food service	0.0017331	0.0157807	_	NA	0.0140476	60.0140476	NA
,			0.1127181				
BODY(6) a few extra	0.0387060	0.0664452	_	NA	0.0277392	20.0277392	NA
pounds			0.1113763				
INCOME(3) \$35,000 to	0.0895436	0.1258306	_	NA	0.0362869	0.0362869	NA
\$49,999			0.1094106				
$LANG_GERMAN(1)$ yes	0.0202195	0.0099668	0.1032139	NA	0.0102527	70.0102527	NA
OCCUP(09) legal services	0.0314847	0.0178571	0.1029021	NA	0.0136275	50.0136275	NA
LANG_CHINESE(0) no	0.6262276	0.6735880	-	NA	0.0473604	10.0473604	NA
			0.1010033				
REGION(0) Los Angeles,	0.2322357	0.2769934	-	NA	0.0447577	70.0447577	NA
CA			0.1000142				
MARSTAT(0) single-never	0.7614096	0.7163621	0.0999360	NA	0.0450475	50.0450475	NA
married							
OCCUP(04)	0.0101098	0.0253322	-	NA	0.0152225	50.0152225	NA
construction/craftsman			0.0968768				
RELIGION(00)	0.0557481	0.0373754	0.0968616	NA	0.0183727	70.0183727	NA
none/agnostic							
OCCUP(12) poli-	0.0225303	0.0419435	-	NA	0.0194132	20.0194132	NA
tics/government/military			0.0968432				

	Means	Means		Var.	eCDF	eCDF	
	Treated	Control	Std. Mean	Ratio	Mean	Max	Std. Pair
	B4	B4	Diff. B4	B4	B4	B4	Dist. B4
LANG_ITALIAN(1) yes	0.0222415	0.0120432	0.0934948	NA	0.0101983	0.0101983	NA
RELIGION(01) Atheist	0.0077990	0.0029070	0.0908649	NA	0.0048920	0.0048920	NA
SEX(1) male	0.5346620	0.4900332	0.0892754	NA	0.0446288	0.0446288	NA
SEX(0) female	0.4653380	0.5099668	-	NA	0.0446288	0.0446288	NA
			0.0892754				
BODY(8) voluptous	0.0170422	0.0328073	-	NA	0.0157651	0.0157651	NA
			0.0885026				
BODY(1) slender	0.0615251	0.0436047	0.0877535	NA	0.0179205	0.0179205	NA
BODY(2) average	0.2911612	0.3313953	-	NA	0.0402342	0.0402342	NA
			0.0854746				
$LIVE_FAM(0)$ no	0.6415367	0.5996678	0.0854527	NA	0.0418689	0.0418689	NA
OCCUP(03) computer	0.0745234	0.0556478	0.0823396	NA	0.0188756	0.0188756	NA
related/hardware							
WANTKIDS(3) no answer	0.2021953	0.1715116	0.0813986	NA		0.0306836	NA
HEIGHT_FT	5.1808203	5.1503322	0.0802308	1.1141004	0.0076852	0.0287900	NA
$LIVE_FAM(1)$ yes	0.0427499	0.0618771	-	NA	0.0191272	0.0191272	NA
			0.0793884				
SERVICES(1) never	0.1057192	0.0838870	0.0787545	NA	0.0218322	0.0218322	NA
RELIGION(05)	0.0228192	0.0137043	0.0784003	NA	0.0091149	0.0091149	NA
Christian/Protestant							
LANG_URDU(1) yes	0.0077990	0.0033223	0.0777972	NA	0.0044767	0.0044767	NA
DRINKING(2)	0.8238013	0.7940199	0.0736404	NA	0.0297813	0.0297813	NA
occasionally							
BODY(4) fit	0.0644136	0.0485880	0.0736056	NA	0.0158256	0.0158256	NA
BODY(0) slim	0.1213172	0.0996678	0.0722714	NA	0.0216494	0.0216494	NA
RELIGION(03)	0.1340266	0.1602990	-	NA	0.0262724	0.0262724	NA
Christian/Catholic			0.0716098				
HAVEKIDS(2) yes, at	0.0291739	0.0431894	-	NA	0.0140155	0.0140155	NA
home part-time			0.0689456				
EMPSTAT(6) unemployed	0.0025997	0.0091362	-	NA	0.0065366	0.0065366	NA
. ,			0.0687004				
MARSTAT(4) no answer	0.0231080	0.0357143	_	NA	0.0126063	0.0126063	NA
, ,			0.0679301				
OCCUP(10) manufactur-	0.0089544	0.0178571	-	NA	0.0089028	0.0089028	NA
ing/distributions			0.0672252				
OCCUP(06)	0.0580589	0.0444352	0.0661153	NA	0.0136237	0.0136237	NA
entertainment/media							
INCOME(0) no answer	0.5577701	0.5257475	0.0641302	NA	0.0320226	0.0320226	NA
LIVE_PARTY(1) yes	0.0034662	0.0095515	-	NA	0.0060853	0.0060853	NA
_			0.0625647				
LIVE_PARTY(0) no	0.6808203	0.6519934	0.0605179	NA	0.0288270	0.0288270	NA
LIVE_ROOM(0) no	0.5288850	0.4987542	0.0602620	NA	0.0301309	0.0301309	NA
OCCUP(13)	0.0794339	0.0647841	0.0595171	NA		0.0146498	NA
sales/marketing							
BODY(7) large	0.0109763	0.0191030	_	NA	0.0081267	0.0081267	NA
. ,			0.0593677				
RELIGION(02)	0.0231080	0.0157807	0.0587942	NA	0.0073273	0.0073273	NA
Buddhist/Taoist							
SERVICES(3) only on	0.0973426	0.0813953	0.0583205	NA	0.0159472	0.0159472	NA
holidays							

	Means Treated	Means Control	Std. Mean	Var.	eCDF Mean	eCDF Max	Ctd Dain
	B4	B4	Diff. B4	Ratio B4	Mean B4	Max B4	Std. Pair Dist. B4
MARSTAT(1) divorced	0.1813980	0.2043189	0.0568470	NA	0.02292090	0.0229209	NA
EMPSTAT(2) homemaker	0.0025997	0.0074751	-	NA	0.00487540	0.0048754	NA
REGION(3) Atlanta, GA	0.2209705	0.2450166	0.0566023	NA	0.02404610	0.0240461	NA
LIVE_PETS(0) no	0.6036973	0.5764120	$0.0559085 \\ 0.0552193$	NA	0.02728530	0.0272853	NA
DRINKING(1) no	0.1510687	0.1715116	0.0542316	NA	0.02044290	0.0204429	NA
SERVICES(2) rarely	0.2628538	0.2861296	0.0515006	NA	0.02327570	0.0232757	NA
LANG_DUTCH(1) yes	0.0023108	0.0008306	0.0513000 0.0513837	NA	0.00148020		NA
LIVE_ALONE(2) no answer	0.3134027	0.3376246	0.0512200	NA	0.02422190		NA
POLITICS(4) very liberal LANG_FRENCH(0) no	$\begin{array}{c} 0.0329289 \\ 0.6548238 \end{array}$	$0.0253322 \\ 0.6773256$	0.0483460	NA NA	0.0075967 (0.0225018 (NA NA
LIVE_PAR(2) no answer	0.3157135	0.3384551	0.0481322	NA	0.02274170	0.0227417	NA
LIVE_PETS(2) no answer	0.3157135	0.3384551	0.0480610	NA	0.02274170	0.0227417	NA
LIVE_ROOM(2) no	0.3157135	0.3384551	0.0480610	NA	0.02274170	0.0227417	NA
answer LIVE_FAM(2) no answer	0.3157135	0.3384551	0.0480610	NA	0.02274170	0.0227417	NA
LIVE_PARTY(2) no	0.3157135	0.3384551	0.0480610	NA	0.02274170		NA
answer LIVE_KIDS(2) no answer	0.3154246	0.3380399	0.0480610	NA	0.02261530		NA
• •			0.0478081				
SMOKING(0) no answer	0.0346620	0.0440199	0.0456172	NA	0.00935790		NA
DRINKING(3) often	0.0049105	0.0091362	0.0444134	NA	0.00422580	0.0042258	NA
POLITICS(0) very conservative	0.0063547	0.0107973	0.0429872	NA	0.00444260	0.0044426	NA
RELIGION(11) Christian	0.3362218	0.3567276	0.0428065	NA	0.02050570	0.0205057	NA
MARSTAT(3) separated	0.0254188	0.0328073	- 0.0414775	NA	0.00738850	0.0073885	NA
REGION(2) Chicago, IL	0.2515887	0.2695183	0.0404084	NA	0.01792960	0.0179296	NA
LANG_RUSSIAN(1) yes RELIGION(12) Not	0.0098209 0.0332178	$\begin{array}{c} 0.0066445 \\ 0.0274086 \end{array}$	0.0390976 0.0355798	NA NA	0.00317640 0.00580920		NA NA
religious RELIGION(06) Christian/Other	0.0161756	0.0211794	0.0347528	NA	0.00500380	0.0050038	NA
SERVICES(6) more than once a week	0.0233969	0.0290698	-	NA	0.00567290	0.0056729	NA
DRINKING(0) no answer	0.0202195	0.0253322	0.0337668 - 0.0325376	NA	0.00511270	0.0051127	NA

	Means	Means		Var.	eCDF	eCDF	
	Treated B4	Control B4	Std. Mean Diff. B4	Ratio B4	Mean B4	Max B4	Std. Pair Dist. B4
RELIGION(09) Islam	0.0072213	0.0049834	0.0317803	NA	0.0022379	0.0022379	NA
LANG_TAGALOG(0) no	0.6744656	0.6885382	-	NA		60.0140726	NA
_			0.0303884				
EMPSTAT(8) no answer	0.0317735	0.0373754		NA	0.0056019	0.0056019	NA
			0.0295333				
$LANG_ARABIC(1)$ yes	0.0023108	0.0041528	-	NA	0.0018420	0.0018420	NA
			0.0286435				
OCCUP(08)	0.0150202	0.0186877	-	NA	0.0036675	0.0036675	NA
hospitality/travel	0.000	0.00501.40	0.0270824	3.T.A	0.0000506		3.T.A
EMPSTAT(7) work at	0.0037551	0.0058140	0.0070010	NA	0.0020589	0.0020589	NA
home LANG_ENGLISH(0) no	0.0031774	0.0049834	0.0270810	NA	0.0019060	0.0018060	NA
LANG_ENGLISH(0) 110	0.0051774	0.0049854	0.0256477	NA	0.0018000	0.0018000	NA
LANG ENGLISH(1) yes	0.9968226	0.9950166	0.0256477	NA	0.0018060	0.0018060	NA
MARSTAT(2) widowed	0.0086655	0.0107973	0.0200411	NA		30.0013338	NA
	0.0000000	0.010.0.0	0.0206277	- 11	0.0021010	,0.0021010	1111
LANG ARABIC(0) no	0.7073946	0.6980897	0.0202682	NA	0.0093049	0.0093049	NA
LANG HEBREW(1) yes	0.0011554	0.0020764	-	NA		0.0009210	NA
			0.0202329				
$LIVE_ROOM(1)$ yes	0.1554015	0.1627907	_	NA	0.0073892	20.0073892	NA
			0.0200154				
RELIGION(04)	0.0008666	0.0016611	-	NA	0.0007946	60.0007946	NA
Christian/LDS			0.0195117				
BODY(9) no answer	0.0118429	0.0141196	-	NA	0.0022767	70.0022767	NA
			0.0192970	27.4			37.1
LANG_HEBREW(0) no	0.7085500	0.7001661	0.0182980	NA		0.0083839	NA
LANG_FRENCH(2) no	0.2902946	0.2977575	- 0.01.6000.4	NA	0.0074628	30.0074628	NA
answer LANG GERMAN(2) no	0.2902946	0.2077575	0.0163204	NA	0.0074696	30.0074628	NA
answer	0.2902940	0.2977575	0.0163204	NA	0.0074026	0.0074028	NA
LANG ITALIAN(2) no	0.2902946	0.2977575	0.0103204	NA	0.0074628	30.0074628	NA
answer	0.2302340	0.2311010	0.0163204	1111	0.0014020	0.0014020	1171
LANG_SPANISH(2) no	0.2902946	0.2977575	0.0100201	NA	0.0074628	30.0074628	NA
answer	0.20020	3.23.7.3.3	0.0163204		0.00, -0-0		
LANG_PORTUGUESE(2)	0.2902946	0.2977575	-	NA	0.0074628	30.0074628	NA
no answer			0.0163204				
$LANG_DUTCH(2)$ no	0.2902946	0.2977575	-	NA	0.0074628	30.0074628	NA
answer			0.0163204				
LANG_CHINESE(2) no	0.2902946	0.2977575	-	NA	0.0074628	30.0074628	NA
answer			0.0163204				
LANG_JAPANESE(2) no	0.2902946	0.2977575	-	NA	0.0074628	30.0074628	NA
answer	0.0000046	0.0000000	0.0163204	D.T.A.	0.0074606	0.0074600	DT A
$LANG_ARABIC(2)$ no	0.2902946	0.2977575	0.0162204	NA	0.0074628	30.0074628	NA
answer	0.2002046	0.2077575	0.0163204	NT A	0.0074696	0.0074690	NT A
LANG_RUSSIAN(2) no answer	0.2902946	0.2977575	0.0163204	NA	0.0074026	30.0074628	NA
LANG_HEBREW(2) no	0.2902946	0.2977575	0.0100204	NA	0 0074628	30.0074628	NA
answer	0.2002040	5.2011010	0.0163204	1111	0.0014020	. 0.001 1020	11/1
LANG_HINDI(2) no	0.2902946	0.2977575	-	NA	0.0074628	30.0074628	NA
answer			0.0163204				

	Means	Means		Var.	eCDF	eCDF	
	Treated	Control	Std. Mean	Ratio	Mean	Max	Std. Pair
	B4	B4	Diff. B4	B4	B4	B4	Dist. B4
LANG_TAGALOG(2) no	0.2902946	0.2977575	-	NA	0.0074628	30.0074628	NA
answer			0.0163204				
LANG_URDU(2) no	0.2902946	0.2977575	-	NA	0.0074628	30.0074628	NA
answer			0.0163204				
$LIVE_PETS(1)$ yes	0.0805893	0.0851329	-	NA	0.0045436	60.0045436	NA
			0.0162808				
SERVICES(5) weekly	0.1574235	0.1632060	-	NA	0.0057825	60.0057825	NA
			0.0156473				
HEIGHT_IN	5.5675910	5.6179402	-	1.0688186	0.0103338	30.0275296	NA
			0.0150319				
EMPSTAT(3) retired	0.0014443	0.0020764	-	NA	0.0006322	20.0006322	NA
			0.0138874				
$LANG_DUTCH(0)$ no	0.7073946	0.7014120	0.0130728	NA		60.0059826	NA
$LANG_JAPANESE(0)$ no	0.6837088	0.6893688	-	NA	0.0056599	0.0056599	NA
			0.0122310				
OCCUP(00)	0.0571924	0.0598007	-	NA	0.0026083	30.0026083	NA
artistic/musical/writer			0.0110000				
$LANG_RUSSIAN(0)$ no	0.6998845	0.6955980	0.0093153	NA		60.0042865	NA
HAVEKIDS(4) no answer	0.0335066	0.0319767	0.0086957	NA		0.0015299	NA
POLITICS(1) conservative	0.0739457	0.0718439	0.0081394	NA		30.0021018	NA
RELIGION(15) no answer	0.1938186	0.1964286	-	NA	0.0026100	0.0026100	NA
			0.0065693				
LANG_URDU(0) no	0.7019064	0.6989203	0.0065096	NA		0.0029861	NA
RELIGION(13)	0.0002889	0.0004153	-	NA	0.0001264	10.0001264	NA
Scientology			0.0062055				
$LANG_GERMAN(0)$ no	0.6894858	0.6922757	-	NA	0.0027899	0.0027899	NA
			0.0060446				
LANG_ITALIAN(0) no	0.6874639	0.6901993	-	NA	0.0027354	10.0027354	NA
			0.0059156				
SERVICES(4) monthly	0.0866551	0.0880399	-	NA	0.0013848	30.0013848	NA
0			0.0048870				
SERVICES(0) no answer	0.2666089	0.2682724	-	NA	0.0016635	0.0016635	NA
			0.0037546				
LANG_HINDI(0) no	0.6969960	0.6985050	-	NA	0.0015090	0.0015090	NA
			0.0032883				
LANG_PORTUGUESE(0)	0.6949740	0.6964286	-	NA	0.0014546	60.0014546	NA
no			0.0031635				

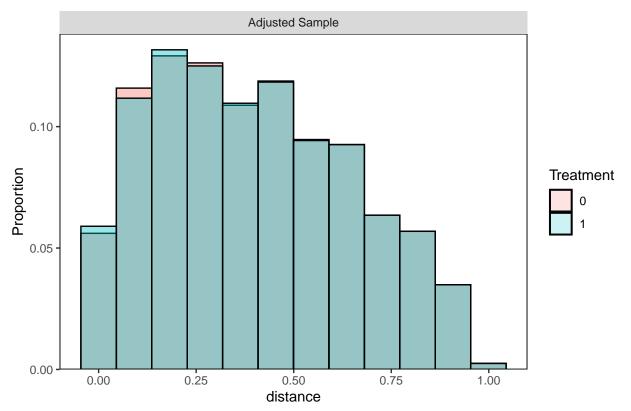
```
mat_nearest_ATC_wr <- matchit(CGRAD ~ SEX + REGION + AGE + ETHNICITY + MARSTAT + BODY + HEIGHT_FT + HEI
mat_nearest_ATC_wr</pre>
```

Step 3: Create a propensity model and assess balance and overlap - NEW (to get absolute mean difference. We eant to use eCDF Mean

```
## A matchit object
## - method: 1:1 nearest neighbor matching with replacement
## - distance: Propensity score
## - estimated with probit regression
```

```
## - number of obs.: 5870 (original), 3478 (matched)
## - target estimand: ATC
## - covariates: SEX, REGION, AGE, ETHNICITY, MARSTAT, BODY, HEIGHT_FT, HEIGHT_IN, SMOKING, DRINKING, I
options(max.print=3000)
sum_MatwrATC <- summary(mat_nearest_ATC_wr)</pre>
#sum_fullATE
summarydf sum MatwrATC <- cbind(</pre>
  "Means Treated B4" = sum_MatwrATC$sum.all[, "Means Treated"],
  "Means Treated M" = sum_MatwrATC$sum.matched[, "Means Treated"],
  "Means Control B4" = sum_MatwrATC$sum.all[, "Means Control"],
  "Means Control M" = sum_MatwrATC$sum.matched[,"Means Control"],
  "Std. Mean Diff. B4" = sum_MatwrATC$sum.all[, "Std. Mean Diff."],
  "Std. Mean Diff. M" = sum_MatwrATC$sum.matched[,"Std. Mean Diff."],
  "Var. Ratio B4" = sum_MatwrATC$sum.all[, "Var. Ratio"],
  "Var. Ratio M" = sum_MatwrATC$sum.matched[,"Var. Ratio"],
  "eCDF Mean B4" = sum_MatwrATC$sum.all[,"eCDF Mean"],
  "eCDF Mean M" = sum_MatwrATC$sum.matched[,"eCDF Mean"],
  "eCDF Max B4" = sum_MatwrATC$sum.all[,"eCDF Max"],
  "eCDF Max M" = sum_MatwrATC$sum.matched[,"eCDF Max"],
  "Std. Pair Dist. B4" = sum_MatwrATC$sum.all[,"Std. Pair Dist."],
  "Std. Pair Dist. M" = sum_MatwrATC$sum.matched[,"Std. Pair Dist."]
summarydf sum MatwrATC <- as.data.frame(summarydf sum MatwrATC)</pre>
view(summarydf_sum_MatwrATC)
summarynn_sum_MatwrATC <- sum_MatwrATC$nn</pre>
summarynn_sum_MatwrATC
##
                 Control Treated
## All (ESS)
                    2408 3462.0000
## All
                    2408 3462.0000
## Matched (ESS)
                    2408 394.2924
## Matched
                    2408 1070.0000
## Unmatched
                       0 2392.0000
                            0.0000
## Discarded
                       0
bal.plot(mat_nearest_ATC_wr, type = "histogram")
## No `var.name` was provided. Displaying balance for distance.
## Warning: No shared levels found between `names(values)` of the manual scale and the
## data's colour values.
```

Distributional Balance for "distance"



```
stdm_sum_MatwrATC <- summarydf_sum_MatwrATC[order(-abs(summarydf_sum_MatwrATC$"eCDF Mean M")), ] #sorti
stdm_sum_MatwrATC$actualdiff <- stdm_sum_MatwrATC$`Means Control M` - stdm_sum_MatwrATC$`Means Treated ?

#check that the actual difference is equal to eCDF Mean M
stdm_sum_MatwrATC$actualdiff <- abs(stdm_sum_MatwrATC$`Means Control M` - stdm_sum_MatwrATC$`Means Treat

#check and see which variables where they don't match
view(stdm_sum_MatwrATC %>% filter(`eCDF Mean M` != actualdiff))

#they are continuous variables and their standard differences are under 0.10

#sorting it so its in descending order (largest absval to smallest)

table2 <- round(head(stdm_sum_MatwrATC, n= 7), digits = 4)

setwd("-/R")

write.csv(table2, "table2.csv", row.names = T)

#sort covariates by absolute value of mean difference
#stdm_sum_MatwrATC <- stdm_sum_MatwrATC %>% relocate("eCDF Mean M", .before = "Means Treated B4") #movi

kableExtra::kable(stdm_sum_MatwrATC)
```

Means Means Std. Std. Var.	Var.	Std.	Std.
Means Means Con- Con- Mean Mean Ra-	Ra-	eCDFeCDFeCDFPair	Pair
TreatedTreatedtrol trol Diff. Diff. tio	tio	Mean Mean Max Max Dist.	Dist.
B4 M B4 M B4 M B4	M	B4 M B4 M B4	M actualdiff
LIVE_KIDS(0)).6239168929402382066382060719243 - NA no 0.0907970	NA	0.085 71.08 5 2668 5 71.08 52 65A	0.99043720452658
LIVE_PETS(0).60369 7.3 311 462 7641 026 7641 020 552193 - NA	NA	0.02 728.54 5 266872863 52 65A	0.984150.30452658
LIVE_PARTY(00)808208075508651990865199080605179 - NA	NA	0.028 82704 44 B62 8 82704 44 352	0.9825442044435
no 0.0932850 AGE 32.6002 301.5 05 22947 54 9234 754 9834 136 9 89908 33 978	56 0 67315	2 SRMR637701 2 FR 90 5 001 7 & 2 2 M&A	0.9866375750830
LIVE_PAR(2)0.315713373389384553384551 - 0.07372N2A	NA	0.02274.03488 07 2774 03 48 83 A	0.961886.634883
no answer 0.0480610			
LIVE_PETS(2).3157133733389384553384551 - 0.07372N2A no answer 0.0480610	NA	0.022 74.03 4 8802 2 7403 48 83A	0.9618 86.6 34883
LIVE_ROOM (2) 3157133733389384553384551 - 0.07372N2A no answer 0.0480610	NA	0.022 74.03 4 8807 27 403 48 83A	0.961886634883
LIVE_FAM(2)0.3157133733389384553384551 - 0.07372N2A no answer 0.0480610	NA	0.022 74.03 4 8807 2 7403 48 83A	0.961886.6034883
LIVE_PARTY((2)157133733389384551384551 - 0.07372N2A no answer 0.0480610	NA	0.022 74.03 48 807 27 403 48 83A	0.961886.634883
LIVE_KIDS(2)0.3154246729286380399380399 - 0.0737434A no answer 0.0478081	NA	0.0226 1.53 48 807 26 1.53 48 83A	0.9621 753 034883
LIVE_ALONH(2)134023716773376246376246 - 0.0720032A no answer 0.0512200	NA	0.0242203405024220940532	0.960708.7034053
RELIGION(11)).336221.890780356727.6567276 - 0.07108N2A Christian 0.0428065	NA	0.0205@57405620506740532	0.95881 0.0 34053
SERVICES(5) 0.1574235951827632060632060 - 0.08652NA weekly 0.0156473	NA	0.005 7&25 19 7.6 05 7825 19 76A	0.7899 89.9 31976
LIVE_ROOM (0) \$2888 \$4671 9247987 \$42987 \$42602620 - NA no 0.0631231	NA	0.0301 3.03 136 05 01B 09 15 6 NA	0.9900363331561
LANG_ITALI A.N%7 463 6 590 5 36 6 901 998 901993 NA no 0.00591 6 06673560	NA	0.00273531104602785311462	0.97621 3. D31146
LIVE_PAR(0)0.641536492524923670152367012359958 - NA no 0.0623623	NA	0.11786.561104627865611462	0.96204 22 31146
EMPSTAT(5) 0.0462161507407520431.9204319 - 0.0931453A student 0.2280295	NA	0.0742 1.58 03 1.66 42 1.68 03 15A	0.697950.7030315
HAVEKIDS(0)0.7833622162796465946465947861083 - NA no 0.0634182	NA	0.136 76.703 03 1.56 6 7675 03 15A	0.8991482030315
EMPSTAT(0) 0.771230 6 212 6 2 6 511 6 2 8 511 6 2 8 511 6 2 8 51243 - NA full-time 0.0627364	NA	0.1200 6.772 99 003 00 677 99 00A	0.90619 2 929900
ETHNICITY(0).22414 7.9 30149 3 010 793 010797 - 0.0633 7N5 A African 0.1677071	NA	0.0769 3.02 90 69 869 B02 90 69A	0.9451 25.0 29069
American			
LANG_HIND I (0)96996 6 70265 6 98505 6 985050 - NA	NA	$0.0015 \\ 0.90282 \\ 89015 \\ 0.908239 \\ 2$	0.957424.028239
no 0.00328 03 0615358 LANG_ARAB 07 (07394 6 698 5 06980 897 980 \$97 202682 - NA	NA	0.0093042828929304282392	0.9624775028239
no 0.0615117 LANG_RUSSI A60(98)846 673 586 9559 86 955 980 093153 - NA	NA	0.004 28.62 8 2 8 92 4 2862 82 392	0.9566355028239
no 0.0613691 LANG_DUTC 04707 394 6 735 887 0141 27 0141 20 130728 - NA	NA	0.0059 8.20 78 209 59 820 78 23A	0.9537 25.6 27823
no 0.0607989 LIVE_ALONH(.41)20 7012 147 010 421 0016 421 0018 734475 - NA	NA	0.1599 7.02 74 086 99 7.02 74 08A	0.771698.0027408
yes 0.0639850			

M M Cul Cul V	T 7	Ct 1	Ct. 1
Means Means Std. Std. Var. Means Means Con- Con- Mean Mean Ra-	Var.	Std.	Std.
	Ra-	eCDFeCDFeCDFPair	Pair
TreatedTreatedtrol trol Diff. Diff. tio	tio	Mean Mean Max Max Dist.	Dist.
B4 M B4 M B4 M B4	M	B4 M B4 M B4	M actualdiff
LANG_TAGA L674(00) 6611 296 8853 82 885382 NA no 0.03038 9 40591863	NA	0.0140 7.20 2740 96 40 7.20 74 08A	0.96312020274086
LANG_FREN © 29/02/946 247 502 977 57.2 977575 - 0.05903 N 2A	NA	0.0074 6.22 69 980 746 22 69 98A	0.95448 9.9 269934
no answer 0.0163204	NT A	0.007 46.22 699 84 746 22 699 3A	0.05449@@960094
LANG_GERMAZY(2)9462475028977572977575 - 0.05903N2A no answer 0.0163204	NA	U.UU14WLKZUHHOU14UUZUHHAA	0.95448 9.0 269934
LANG_ITALI A.N902 94 6 247 502 977 57.2 977575 - 0.05903 N 2A	NA	0.007 46.22 699 00 746 2 869 93A	0.95448 9.9 269934
no answer 0.0163204			
LANG_SPAN ISPE(02) 946247500 2 977575.2977575 - 0.05903N2A	NA	0.007 46.22 699 907 46 22 69 93A	0.95448 9.9 0269934
no answer 0.0163204			
LANG_PORT 0.6949360 (0)435 0 96428 6 964286 NA	NA	0.001 45.02 699 00 14 500 69 93A	0.9582 75 . 0 269934
no 0.00316 9 5587068	NT A	0.00746666666666666666666666666666666666	0.05440000000000
LANG_PORT 012902996 (24)75028977572977575 - 0.05903N2A no answer 0.0163204	NA	0.0074 6.22 69 984 74 622 69 93A	0.95448 9.9 269934
no answer 0.0163204 LANG DUTC 0H29 0294 6 247 502 977 57 2977575 - 0.05903 N 2A	NA	0.007 46.22 699 84 7 4622 69 93A	0.95448 9.9 269934
no answer 0.0163204	MA	0.00/40.203304/40220330A	0.30440330203304
LANG CHINIOS29(02)94624750289775752977575 - 0.05903N2A	NA	0.007 462 2699 60 746 22 69 93A	0.95448 9.9 269934
no answer 0.0163204			
LANG_JAPA NE9E2916 24750 2 97757 .2 977575 - 0.05903 N 2A	NA	0.007 46.22 699 64 746 2 269 93A	0.95448 9.9 269934
no answer 0.0163204			
LANG_ARAB 0(2) 294 6 247 5 0 2 9775 7 5 2 977575 - 0.05903 N 2A	NA	0.007 46.22 69 960 746 22 69 93A	0.95448 9.9 269934
no answer 0.0163204			
LANG_RUSSI 0A20(02) 94 6 247 5 00 2 977 5 7 .2 977575 - 0.05903 N 2A	NA	0.007 46.22 69 980 746 22 69 98A	0.95448 9.9 269934
no answer 0.0163204			
LANG_HEBR EY9(22)946 247 5029 77 57 2 9 77575 - 0.05903 N 2A	NA	0.0074 6.22 699 64 746 2 869 93A	0.95448 9.9 269934
no answer 0.0163204	37.4		0.05440000000000
LANG_HINDI()29029462475028977572977575 - 0.05903N2A	NA	0.0074 6.22 699 00 74 62 869 93A	0.95448 9.9 269934
no answer 0.0163204	NT A	0.0074@996@0047460960494	0.05449@@960094
LANG_TAGA L299(29)16 247 502 977 57.2 977575 - 0.05903 N2 A no answer 0.0163204	NA	0.0074 6.22 699 60 746 2 869 93A	0.95448 9.9 269934
LANG URDU(2)9029462475029775752977575 - 0.05903N2A	NA	0.0074 6.22 69 960 74 622 69 93A	0.95448 9.9 269934
no answer 0.0163204	INA	0.0014WLX2033304140020339A	0.90440939209904
DRINKING(1)0.151068744938671510.6715116 NA	NA	0.0204 4.22 6 57.82 04 422 65 78A	0.70507 2 .00265781
no 0.05423 0 60705072	1111	0.020 <u>13.0</u> 2000.020 <u>13.0</u> 200 rom	0.1000142.0200101
LANG_HEBR EVV(\$5)006 740 0B3 001 06 7001 660 182980 - NA	NA	0.008 3832 6 1626 8 3862 61 62A	0.95983940261628
no 0.0571009			0.000000.2201020
LANG URDU(07)019066727576989208989203065096 - NA	NA	0.0029 %6 2616 28 298 62 61 62A	0.955083.0261628
no 0.0570334			
DRINKING(2)0.82380 1.8 197 6 7 4 940 1099 940 1099 7364 0 406366 559 A	NA	0.029 78.02 5 7472 9 7802 57 47A	0.76809830257475
occasion-			
ally			
LANG_SPAN ISH(%) 9918418604676084676080430742 - NA	NA	0.0713 8.62 5 7477 13 862 57 47A	0.975470.0257475
no 0.0516034			
LANG_FREN CH(0) 2B 8 5199B 4 7732b 6 773256 - NA	NA	0.0225 $0.0253 $ $0.0225 $ $0.0253 $ 0.0225	0.97802470253322
no 0.04813 02 0541867			
MARSTAT(0) 0.76140 96 914 452 163 627 163 620 999360 - NA	NA	0.0450 4.02 49 1.69 50 402 49 169	0.90838930249169
single-never 0.0552772			
married	N.T. A	0.0000000000000000000000000000000000000	0.05005@@0.45045
LANG_JAPA NESE7036 648 676 893 688 893688 NA	NA	0.0056 5.92 4 5000 75 6592 45 0 1 A	0.95395620245017
no 0.01223 0 00529477			

	M M Ct-1 Ct-1 V	1 7	Ct 1	C+ J
	Means Means Std. Std. Var. Means Means Con- Con- Mean Mean Ra-	Var. Ra-	Std. eCDFeCDFeCDFPair	Std. Pair
	TreatedTreatedtrol trol Diff. Diff. tio	tio	Mean Mean Max Max Dist.	Dist.
	B4 M B4 M B4 M B4	M	B4 M B4 M B4	M actualdiff
SMOKING(2)	0.0930@ \$ 399 5 0 2 640 3 6 5 640365 - NA	NA	0.0710 2.67 40 867 10 267 40 86A	0.68856 9.7 0240864
occasion-	0.19180 01 0650440			
ally	0.000F400F4F40P500F090F0P00C 0.00F11NTO	NT A	0.000000010040000017414	0.741000.0015047
INCOME(3)	0.0895436474252258306258306 - 0.06511N2A	NA	0.0362 8.62 15 943 62 862 15 94A	0.74126 6 4 0 215947
\$35,000 to \$49,999	0.1094106			
,	TECSEE(CO)27.6524086735886735880 NA	NA	0.0473 6.02 11 7.94 73 602 11 79A	0.96093290211794
no	0.10100 9 30451683	1111		0.0000000000000000000000000000000000000
LANG_GER	MA6894858719266922757922757 - NA	NA	0.002 78.92 0 348827892 03 48A	0.95823650203488
no	0.00604 0 60440879			
MARSTAT(1)	0.181398 0 246 672 043 182 043189 - 0.05046 80 A	NA	0.0229 2.02 0 3482 29 202 03 48A	0.8538355 203488
divorced	0.0568470			
`	0)0.6415 367 801 495 996 678 996 670 854527 - NA	NA	0.0418 6.89 9 51.03 18 609 95 1 8 A	0.95521650195183
no	0.0398360	NT A		0.50005@@105109
OCCUP(02) cleri-	0.023396 9 672 750 8679 40 867940 NA 0.22518 6 50693285	NA	0.063 39.71 19 51.86 3 397 195 18A	0.50005 0.0 195183
cal/administra				
	0.2697863210133388703388704 - NA	NA	0.0690 8.02 7 8576 9 0802 78 57A	0.894040.30178571
no answer	0.14595 08 0377270	1111	0.0000001210000001001H	0.00101020110011
SEX(0)	0.4653 385 265 7 8 5 099 6 6 8 099668 - 0.03322 N2 A	NA	0.044 6288 6 60.03 4 628 866 NA	1.03176650166113
female	0.0892754			
SEX(1)	0.5346 62 4734 2 1 4 9003 3 2900 3 3292754 - NA	NA	0.0446 288 66 1.03 46 28 866 NA	1.03176 55 166113
male	0.0332292			
BODY(3)	0.337954 9 462 6 2 3 29651 .2 296 5 1 2 5749 6 103949 N 5A	NA	0.1083 0.38 6 01.10 830 08 66 NA	0.884654.0166113
athletic	(M) 005 (M) 4 000 M01 00 MM01 00 MM01 00 M01	3.T.A	0.005791941579075791045797	0.001.00%.01.500.00
	(2).2954939839701997508997502394697 - NA	NA	0.095 743157809 5 7401 57 80A	0.781096.0157807
Caucasian	0.0394703 1)0.0427 499 465 D16 618 77.0 618771 - NA	NA	0.0191 272 5 3664 91 272 53 65A	0.41539 9.3 0153654
yes	0.07938040637750	11/1	0.013120203004312020300H	0.410000004
v	5.567591. 0 221 7 6 6 179 4 0 2 179402 - 0.03111 93 06	880.898	56 7.30 .03 3.38 .505 02 75 2 9614 95A	1.1913562042359
_	0.0150319			
SMOKING(1)	0.8492 207 524 917 379 568 379 568 5301 7 203305 2 9A	NA	0.111 26.83 458 49 1 2663 45 3\9 .	0.86787490145349
no				
`)0.0733680723422594684594684 - 0.03516NA	NA	0.0861 0.04 28 7.98 61 004 28 73A	0.742968.60128738
yes, at	0.2351749			
home full-time				
	(1).30329 29 233 389 362 126 3621 26 870943 - NA	NA	0.1670 %03 2 87.36 70 803 28 73A	0.61139630128738
Asian	0.0375313	1111	0.1010000200000000000000000000000000000	0.0110000120100
OCCUP(01)	0.11813 98 494 186 622 920 622 922 310746 - NA	NA	0.0558 4.74287.95 58 4742873A	0.420970.0128738
bank-	0.0532665			
ing/financial				
ser-				
vices/real				
estate		.	0.0000000000000000000000000000000000000	
	0.1106 29 70892 85 7768 27.2 768 2772 2692 5 604678 N 6A	NA	0.0338 0.25 24 5 8 5 38 025 24 5 8 A	0.57072320124585
self-				
employed				

	Means Means Std. Std. Var.	Var.	Std.	Std.
	Means Means Con- Con- Mean Mean Ra- TreatedTreatedtrol trol Diff. Diff. tio B4 M B4 M B4 M B4	Ra- tio M	eCDFeCDFeCDFeCDFPair Mean Mean Max Max Dist. B4 M B4 M B4	Pair Dist. M actualdiff
REGION(0)	0.23223 57 890 362 7699 327 69934 - 0.02691 N 4	NA	0.04475.777.20040247577.20482	0.915914.30120432
Los Angeles, CA	0.1000142			
	3)).1340 266 486 7 01 1 602 920 602990 NA 0.07160 9 80316938	NA	0.026 27.24 1 6279 6 27.24 16 279 .	0.71990 0.2 0116279
BODY(2)	0.2911 6 0. 3 197 6 7 3 3139 53 313953 NA 0.08547 9 60247027	NA	0.040 23.42 1 6274 0 2842 16 27A	0.92105620116279
average OCCUP(03) computer re-	0.08547 9 0/247027 0.0745 280 668 600 55564 7.8 556 478 8233 9 (04891 X IA	NA	0.0188 7.5 612 121.06 88 7.56 12 12A	0.4764 39.9 112126
lated/hardwa	re			
MARSTAT(4) no answer	0.02310 80 465 D 1 6 357 D 4 8 357143 - 0.05818 X 6A 0.0679301	NA	0.0126 0.63 0 7973 2 60063 07 97A	0.407278.0107973
RELIGION(0	0)).0557 480 265 780 373 750 373 750 968616 - NA	NA	0.018 3727 0 7903 8 3727 07 97A	0.31965 0 .D107973
none/agnostic SMOKING(3) often	0.0569240 0.02310 80 647 \$ 4 0 539 860 539867 - 0.04777 NA 0.1366365	NA	0.0308T&T0797308T8T079YA	0.503503.00107973
INCOME(0)	0.5577 7 0 \$ 153 6 5 2 257 475 257 476 641302 - NA	NA	$0.0320 226 038 2320226 038 \mathbf{2A}$	0.96723 0 .D103821
,	0.0207917 1)).456094 3 596 3 94 8 70016 6 70016 6 782862 - NA	NA	0.0860 7.01 0 380 86 07.01 03 82A	0.93497050103821
yes OCCUP(05) educa-	0.0215035 0.0797 22 70394501 6 290609 8 290609 8 01500 7 06179 N2 A	NA	0.050 63.29 038 2 50 6529 03 82A	0.373255.00103821
tion/academic	3			
research LIVE_KIDS(yes	1)0.0606586341362237542237542 - 0.03152N6A 0.1916046	NA	0.0630920403820630905603\$2A	0.65955 7 @103821
LIVE_PETS	(1).0805899955150851329851329 - 0.03720NA 0.0162808	NA	0.0045 4.36 0 3800 454 06 03 82A	0.605634.00103821
yes SERVICES(1) never	0.0102308 0.1057 1002 735 0 5 0 838 87.0 838 870 787545 - NA 0.0374508	NA	0.0218 3.22 038 02 18 B02 03 82A	0.5168 20.6 0103821
HAVEKIDS (3 yes, but not at home	3)0.0805 893 287 37 5187 703 187708 - 0.03080 N 4A 0.1180195	NA	0.0381 &0 599668818 0 5996 5A	0.680330£0099668
	0).1016 753 756 6 04 5 6569 7.7 656977 - 0.02680 5 2 A 0.1721915	NA	0.0640 223 99 668 4 0220 99 66A	0.73270 2 .D099668
POLITICS(2) middle of	0.3076 25@ 450 162 350 492 350 498 7115 7 3 2 350 X9 A	NA	0.0725 7.58 99 668257.58 99 668	0.848134£9099668
the road BODY(6) a few extra pounds	0.03870 607 6412 0 6644 52 664452 - 0.04001 X 8A 0.1113763	NA	0.027 73.00 99 60877 B 92 99 66A	0.52023130099668
BODY(5) thick	0.04506 007 245 8 04 7 146 107.9 146179 - 0.03128 N9 A 0.2183489	NA	0.0695 5.73 99 668 95 576 99 66A	0.62573880099668
SERVICES(4)	0.0866 550 780 780 880 399 880399 - NA	NA	0.001 3%4 89966 013840 9966 A	0.518822290099668
monthly LIVE_PART yes	0.00488 0 00351744 Y ((1)) 034 6 6 0 191 0 8 0 095 5 0 1.5 095515 - 0.09820 N9 A 0.0625647	NA	0.0060 %55 99550 5 60 850 955 N A	0.28606630095515

-	Means Means Std. Std. Var.	Var.	Std.	Std.
	Means Means Con- Con- Mean Mean Ra-	Ra-	eCDFeCDFeCDFPair	Pair
	TreatedTreatedtrol trol Diff. Diff. tio	tio	Mean Mean Max Max Dist.	Dist.
	B4 M B4 M B4 M B4	M	B4 M B4 M B4	M actualdiff
INCOME(2)	0.0421 722 108 8 0 4 200 1 6 6 200166 NA	NA	0.0778 4.40 99 1 86 2 784 40 591 362	0.587818.70091362
\$25,000 to	0.23953 0.281131			
\$34,999y				
BODY(4)	0.06441 36 394 5 1 6 485 880 485 880 736056 - NA	NA	0.0158 2.56 9 1362 58 266 91 362	0.39788880091362
fit	0.0424930	37.4		
OCCUP(11)	0.08723 28 660 299 5730 90 5730 90 2874 2 303752 N 3A	NA	0.0299236872029926687203	0.509204.70087209
medi-				
cal/health services				
OCCUP(08)	0.0150 2002 269 9 8 4 186 87.7 186877 - 0.06133 X 7A	NA	0.00366705830056366758305A	0.337329.70083056
hospital-	0.0270824	11/1		0.991929.0009090
ity/travel	0.0210021			
~ /	40.0375500574750088305065830565 - NA	NA	0.045 50.5983054550598305A	0.52066880083056
Other	0.16489 6 9300965			
SERVICES(0)) 0.26660 82 603 822 682 722 682724 - NA	NA	0.001 66.3578904166667890A	0.87450330 78904
no answer	0.00375 46 0178088			
,) 0.02541 080 2491 060 3280 7.0 328073 - NA	NA	0.007388678904738867890A	0.30540 2 \$0078904
separated	0.04147 0.04147			
OCCUP(14)	0.084344 9 390 365 469 269 469 269 769292 - NA	NA	0.0374 0.0078003741707890A	0.37113440078904
technical	0.0373098			
sci-	in a			
ence/engineer	mg 0.196418 3 303 987 229 286 229 282 2383 0 02276 5 6A	NA	0.073 49.40 7 47.6 73 49.00 74 75A	0.652614£0074751
liberal	0.130410d30330122320d2232322330000221030A	м	O.01343.0134.01343.01410A	0.00201920074701
	2)).03321 07.8 203 4882 740 86 2740 86 355798 - NA	NA	0.0058 0.92 7 0598 58 092 70 59A	0.27215630070598
Not	0.0432398		0.0000000000000000000000000000000000000	0.2.2100000.0000
religious				
	0.1129 40.2 018 2772 9518 27 951827 - 0.01676 26	NA	0.082 24.22 6 6448 2 242 2664 1A	$0.77326 \$ \mathfrak{D} 066445$
not	0.2075036			
political				
	MANX(12)(10,50332126099668099668032139 - NA	NA	0.010 25.27 6 60405 0 2527 664 N A	0.133780.00066445
yes	0.0668900	37.4	0.004 50000 0.004 50000 0.003	0.0==0.00000000000000000000000000000000
`	4)0.0335 066 386 216 319 760 319 760 0869 67 03776 N2 A	NA	0.0015 299 6 6446 1 5299 66 4NA	0.37766 22 0066445
no answer	0.990070092097094501666450166 N.A.	NT A	0 00 400 @00 @00 @00 400 @00 @ 1\1 #	0.04002000000000
REGION(3) Atlanta,	0.2209 702 383 722 450 1662 450166 NA 0.05590 6 50154489	NA	0.0240 4.0 06 6402 4 0 4 6 066 41A	0.84003 2 9066445
GA	0.0559062154469			
	H(Q84517.61362013202658202658 - NA	NA	0.135 7480 6604 45 5 7 04 0 0664 N A	0.91873 3 £0066445
no	0.27501670134613	1111	0.10010000100100001111	0.0101000000110
OCCUP(17)	0.0866 35 1632 0 6 0 5656 0 1 3 565615 - 0.01828 5 0A	NA	0.0699 0.63 6 6445 99 066 66 44A	0.69940 0.3 066445
other	0.1923745			
REGION(1)	0.29520 52 026 5 7 2 084 71.2 084 712 135154 - NA	NA	0.086 73.33 5 81.48 6 7 8 99 58 1\4	0.811720 \$058140
New	0.0143125			
York/New				
Jersey				0.000
	NDSE6477.9228406286545286543286108 - NA	NA	0.0548 2.33 58 1.46 48 266 58 1NA	0.29870440058140
yes	0.0348488	73. T. A	0.050000050005000000000	0 504600 505000
` '	0.02975016843@268970010897010 NA	NA	0.0599 4.90 53 90 599 490 53 98A	0.52463 8 40053987
part-time	0.20979 4 60188928			

	M M 01 01 7	T 7	70: 1	G. 1
	Means Means Std. Std. Var. Means Means Con- Con- Mean Mean Ra-	Var. Ra-	Std. eCDFeCDFeCDFPair	Std. Pair
	TreatedTreatedtrol trol Diff. Diff. tio	tio	Mean Mean Max Max Dist.	Dist.
	B4 M B4 M B4 M B4	M	B4 M B4 M B4	M actualdi
BODY(9)	0.0118 429 087 2 0 9 141 1 9 6 141196 NA	NA	0.002 27.60 5 3980 2 27.60 53 98A	0.179510.7005398
no answer BODY(0) slim	0.01929 0 00457576 0.1213 107.0 942 690 996 67.8 996 678 722714 - NA 0.0180222	NA	0.02164 .90 53 987 164 90 53 98A	0.6058 23.6 05398
OCCUP(15) transporta-	0.0180222 0.0095 320 365 4049 315 60.5 315615 - 0.02850 M3 A 0.1260051	NA	0.0220 290 498 62 20 290 49 83A	0.37055 5.7 004983
tion WANTKIDS(not sure	2)).24003) 17 973 4 12 2 927 7 1 1 2927 7 41 - 0.01003 N (A 0.1159017	NA	0.052 73.90 4 5685 2 7890 45 68A	0.893470.7004568
	0.07394576727567718489718489081394 - NA 0.0176901	NA	0.0021 0.00 45680210004568 A	0.51301 3.6 04568
BODY(7) large	0.0109 763 145 3349 1910 30 191030 NA 0.05936 77 0333714	NA	0.0081 2.67 4 5680 8 1267 45 68A	0.239667.0004568
	3)).20219 53 673 588 715 10.6 715 D16 813986 - NA 0.0110168	NA	0.0306 8.36 4 1528 0 6866 41 528	0.74693 5.7 004152
INCOME(5) \$75,000 to \$99,999	0.070190 6 269908422840 5 22840 3 1694 5 902779N6A	NA	0.04 735.00 4 150873500 41 528	0.300214 3 004152
,	0.0329 289 211 794 253 329 253 320 483460 - NA 0.0264289	NA	0.0075 9.60 415 28 75 96 041 528	0.29600 3.3 04152
v	IA.N22241.516196012048212048293494803807N8A	NA	0.0101 9.83 415 2 8019 90 41 52A	0.2588885004152
)0.0427 499 341 362 378 738 378738 NA 0.27590 7 40108408	NA	0.0951 2.39 3 7879 51 209 37 37A	0.57215 0.3 003737
,	0.2628 5382 823 922 861 296 861296 NA 0.051500 6 0082698	NA	0.023 27.5037809 3 27.60 37 37A	0.895894.003737
LIVE_ROOM yes	I(1) 55400.5594684627907627907 NA 0.02001 5 40089992	NA	0.0073& 92 332 00 738 92 33 22A	0.7536 792 003322
EMPSTAT(8) no answer	0.0317 735 340 58Q 373 75Q 373754 NA 0.02953 Q 3175151	NA	0.0056 0.0933200 560 09 33 22A	0.367816.603322
OCCUP(13) sales/marketin	0.0794 339 614 6 1 8 647 8 4 0 647 8 4 0 595171 - NA	NA	0.0146 4.96332203 464 98 33 22A	0.482524.7003322
	5.1808 203 457 6 4 1 503 322 503 322 802308 - 1.114 0.0120212	1100922	21 3.9 076 8.52 30 1.02 8 7 90078 90A	0.7136202004568
OCCUP(18) no answer	0.0745 23 4245 3 4 7 274 9 1 .7 274917 NA	NA	0.0529 6.86 29 076 29 686 29 07A	0.64871 7.3 02907
INCOME(1) less than \$24,999	0.02224).5 950 997 980 066 980066 NA 0.25482 0 90097771	NA	0.075 76.5D 29 077 5 765D 29 0YA	0.4679063002907
,	0.00259907045680074750074751 NA 0.05660230337491	NA	0.0048 7.5029000 4 87.50 29 07A	0.13981 7.9 02907
	0.00635947013289901079739107973 - 0.02410598A 0.0429872	NA	0.0044 0.20 24 9.07 44 0.26 24 9.1 A	0.233060.4002491
	L 0S00(30)77.0 074 750 0498 30 049834 - 0.03538 MS A	NA	0.0018 0.60 24 907 18 060 24 91A	0.1769242002491
RELIGION(0 Chris- tian/Protestar	5)).02281092161960137043137043784003)214320A nt	NA	0.0091 0.00 92 4907 91 0109 24 9N 7A	0.25718 3.9 02491

	76 N. G. J. G. J. W.	**	G. 1	
	Means Means Std. Std. Va		Std.	Std.
	Means Means Con- Con- Mean Mean Ra		eCDFeCDFeCDFPair	Pair
	TreatedTreatedtrol trol Diff. Diff. tie		Mean Mean Max Max Dist.	Dist.
	B4 M B4 M B4 M B	4 M	B4 M B4 M B4	M actualdiff
	ANIOSEQUID 103820128788128788164091 - NA	NA	0.0131 022 8249 07 312 08 24 9N A	0.20629680024917
yes	0.0221032	NT A	0.097501.000.000.077504.000.404.74	0.2005 <i>C</i> @50024017
OCCUP(07)	0.07741 0.9 373 754 398 67.0 398 671 919007 - NA	NA	0.0375 4.40 249 03 75 0408 24 9N.A	0.39056050024917
execu-	0.0127357			
tive/manager		NT A	0.001000@001000001000001	0.1760999004017
	GL US9968220 925 2 04 9 950166 9 50166256477 - NA	NA NA	0.0018 0.60 24 907 18 060 24 9NA	0.17692420024917
yes OCCUP(16)	0.0353848 0.00173 80 137 0 4 9 157 800 157807 NA	NA	0.01.4001 7 M02007A140M17A20 7 M7A	0.92659 7 0090764
food service	0.00173811378431378410137807 NE 0.11271810166611	I INA	0.0140 4.706 20 7.64 4004 76 20 76A	0.23658 7 80020764
OCCUP(00)	0.05719 24 618 774 598 000 7598007 - 0.00875 X 9	NA	0.000 <i>c</i> m@mom\ c ate20000000\ *	0.49512000020764
artis-	0.0110000	I INA	0.0026 0.83 2 07.64 26 0.86 20 76A	0.48513 2 40020764
tic/musical/v				
INCOME(4)	0.1282 496 901 166 9219 27 92 1927 246359 - NA	NA	0.0360 5.69 2 07.63 6 0569 20 76A	0.54404850020764
\$50,000 to	0.1282 430 901 100 9213 20 921 321 240339 - NA	I IIA	U.U3UUJUJZUM.U3UUJUJZU I VA	0.04404030020704
\$74,999	0.0071774			
BODY(8)	0.01704 22 311 462 328 07.3 328073 NA	NA	0.015 76.50 01 660157660 016 6N.A	0.3403 72.6 016611
voluptous	0.01704223114023200.8320073 INF 0.0885026093253	I INA	TAPOTOUM CTOUDIQUEM CTO.O	0.04007440010011
	0.000000000000000000000000000000000000	NA	0.0051 0.20 01 0600 0510 1.20 016 0\.A	0.32243 22 016611
no answer	0.0325376	I IIA	0.00310L001000400100L1A	0.32243(4.4)(110011
OCCUP(12)	0.022530 8 436 0 4 7 419 485 419435 - 0.00828 N 6	NA	0.0194 0.32 0166 01 94 0.02 166 N.A	0.41018 5.9 016611
poli-	0.0223309430040419430419433 - 0.00020300 0.0968432	I IIA	0.01940.00100001941001001A	0.410100000110011
tics/governme				
	nent/mintary 2)	NA	0.00213.001660021B00166NA	0.21698820016611
widowed	0.0206277	I IIA	0.00219x1091000402130401041A	0.21090@20010011
OCCUP(04)	0.01010982367102533220253322 - NA	NA	0.015 2220 166 01 5 2220 5166 NA	0.29600 33 016611
construc-	0.01010480250140255322025522 10.01010480250140255322025522 10.01010480250140255322025522 10.010104802501402553220255322 10.01010480250140255322025522 10.01010480250140255322025522 10.01010480250140255322025522 10.01010480250140255322025522 10.01010480250140255322025522 10.01010480250140255322025522 10.01010480250140255322025522 10.01010480250140255322025522 10.01010480250140255320252 10.01010480250140255200252 10.01010480250140255200252 10.01010480250140255200252 10.01010480250140255200252 10.01010480250140252 10.01010480250140252 10.01010480250140252 10.01010480250140252 10.01010480250140252 10.01010480250140252 10.01010480250140252 10.01010480250140252 10.01010480250140252 10.01010480250140252 10.01010480250140252 10.01010480250140250140252 10.01010480250140250140250140250140250140250140250140250140000000000	ı ıva	0.0132220100041322001004A	0.230000000010011
tion/craftsma				
	an 02)).023108 0 174 419 15780171578075879 02)1332 1 89	NA	0.0073 273 1660073276166\A	0.26657780016611
Bud-	02y.023100 0 1744101370001340137000033420133250	1111	0.0075269100000732001001A	0.200910.00010011
dhist/Taoist				
	7) 0.003 7550 041 528 0581 040 058140 NA	NA	0.0020 5.89 1 6600 2 0589 16 6 1 A	0.131094.70016611
work at	0.0270800218491	1111	0.0020mms1ttt##2ttt7001041H	0.10100010011
home	0.02100##210101			
	10)).1045 6387 30 897 714 286 714 286 2866 0 000645 N 0	NA	0.0331 3.53 0166 03 318 50 16 6 V. A	0.51600 02 016611
Spiritual	109.10 10 000 100 000 11 1200 11 1200 200 00 00 1020	1 1111	0.0001@@g1ttt#012001041m	0.01000@2010011
but not				
religious				
-	EN C.HE (4\\$81.6232\55\824916\924916\9922386 - NA	NA	0.0299 6.46 1 6602 99 646 16 6N.A	0.293067.70016611
yes	0.0106570			
BODY(1)	0.0615250448506436040436040877565061007	NA	0.0179 2.05 1 245 879 205 12 45A	0.42501 5.0 012458
slender	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
OCCUP(06)	0.0580 589 431 890 444 350 444 350 661153 - NA	NA	0.013 6237 01 245 83 6297 12 45A	0.405084.70012458
entertain-	0.0060460			
ment/media	3.5500 100			
,	SIANQ9820907890406644506644539097601533N9	NA	0.003 107.6001204503107.6001245A	0.17890 7 .0012458
yes				
	3) 0.001444 48 033 223 020 764 020764 - 0.02736 N 0	NA	0.0006 3.22 01 2458 06 B20 12 45A	0.11859 9. 0012458
retired	0.0138874			

Means Means Std. Std. Var.	Var.	Std.	Std.
Means Means Con- Con- Mean Mean Ra-	Ra-	eCDFeCDFeCDFPair	Pair
TreatedTreatedtrol trol Diff. Diff. tio B4 M B4 M B4 M B4	tio M	Mean Mean Max Max Dist. B4 M B4 M B4	Dist. M actualdiff
RELIGION(04)).00086660041560166110016611 NA Chris- 0.01951070305931	NA	0.000 79.46 1 2458 0 7946 12 458	0.050988.60012458
tian/LDS			
LANG_ARAB 00 0023100805398 7 041 528 041528 - 0.0193 78 0A	NA	0.0018 4.20 1 2468 18 420 12 45A	0.14852630012458
yes 0.0286435	1111	0.0010#2012#001	0.14092@@012490
LANG_HINDI(10)12709404988403737.50373754702910204187A	NA	0.0089 7.0912458 8 97.09 12 45A	0.142916.70012458
yes			
SMOKING(0) 0.0346622042773404401299440199 - NA	NA	0.009 35.70 01 2458 9 3570 12 45A	0.40285320012458
no answer $0.04561 \ $			
LANG_SPAN ISH7071006 333 887 346 346 346346 - NA	NA	0.0639 2.40 01 2 4 56 39 240 12 45A	0.833955.0012458
yes 0.15084 6 90029399			
DRINKING(3)0.0049 1005 083 056 091 362 091362 - NA	NA	0.004 22.5 808 306 4 2258 08 30A	0.18331 7 @008306
often 0.04441 0 40087294			
EMPSTAT(6) 0.00259997083056091362091362 - NA	NA	0.0065 3.66 08 B06 65 B66 08 30A	0.183317.00008306
unem- 0.06870040087294			
ployed	37.4	0.000000000000000000000000000000000000	0.15000000000000
RELIGION(09)).007220L80581040049884004988331780301179N9A	NA	0.002 23.79 08 B0622B79 08 30A	0.153333430008306
Islam	NT A	0.000000000000000000000000000000000000	0.0700001000000
LANG_HEBR EV0(11)	NA	0.0009 2.00 08 B06 09 200 08 30A	0.072984.0008306
yes 0.02023 0 90182460 LANG_URDU(10)07799002490170332203322033220777972 - NA	NA	0.004 47.67 08 806 4 47.67 08 30A	0.08660 25 0008306
yes 0.0144338	IVA	O.OO44M.WDOGDOG44M.OVOO30A	0.000004490000000
RELIGION(07)).006643860000000000830060083020017872 - NA	NA	0.0058 1.30 008 306 58 1.60 08 30A	0.02883050008306
Hindu 0.0288315	1111	0.000011000000000011	0.020000
LANG_DUTCH(023100801661000830600830651380702883N5A	NA	0.001 48.02 08 306 148 02 08 30A	0.08649450008306
yes			
INCOME(6) 0.04506000007050980789004078904201144 - NA	NA	0.0371 7.03 08 3806717.06 08 30A	0.159585.70008306
\$100,000 to 0.0093874			
\$149,999			
HAVEKIDS(2)0.0291 789 440 199 431 894 431894 - 0.00408 5 8A	NA	0.0140 1.55 08 306 40 1.55 08 30A	0.396318.0008306
yes, at 0.0689456			
home			
part-time			
RELIGION(06)).0161 756 203 488 211 794 211794 NA	NA	0.0050 0.38 08 306 50 068 08 30A	0.25958 3 \$0008306
Chris- 0.03475 0 8057685			
tian/Other distance $0.72263829990239981039981130092680003676750$	7 E 10 E 2007 -	1 1/1 (M) 1 1/1 (M) A) A A A C II D A M A A A A A A A A A A A A A A A A A	0.0022001@000012
distance 0.72263829990239981039981130092680003676750 ETHNICITY(4).17706536254013629568629568 - NA	NA	0.18589.05041.58589050415A	0.002294£0000912 0.899046£0004153
His- 0.38658 0 4008636	IVA	0.16003.0004.060030000419A	0.09904030004199
panic/Latino 0.38038W4000030			
SERVICES(3) 0.0973426809800813958813956583205 - NA	NA	0.0159 4.72 04 1.63 594 72 04 .75A	0.56040 9.9 0004153
only on 0.0015187	1111		0.0001000001100
holidays			
LANG_TAGA LOG 2BD014119 6 13704 B 13704 B 8523 0 200357 X 0A	NA	0.0215 350 04 1.52 15 850 04 15A	0.2321 79.9 0004153
yes			
INCOME(7) 0.044770 1.8 0705 998 0747 5 400747 5 4330041 - NA	NA	0.037 29.67 04 1.63 7 2967 04 15A	0.168745.70004153
\$150,000+ 0.0048213			
${\rm RELIGION} (01) 0.00779 \mathfrak{P} 0 0033 \mathfrak{P} 2 0 0290 \mathfrak{T} 0 0290 \mathfrak{T} 0 9086 \mathfrak{0} \mathfrak{P} 0771 \mathfrak{M} \mathcal{G} A$	NA	0.0048 9.20 04 1.50 489 20 04 1.5A	0.115 703.4 0004153
Atheist			

			3.6	3.6	Q. 1	Ct 1	T 7	T 7	Ct 1 Ct 1	
	3.6	3.6			s Std.	Std.	Var.	Var.	Std. Std.	
	Means			Con-	Mean	Mean	Ra-	Ra-	eCDFeCDFeCDFPair Pair	
	Treated			trol	Diff.	Diff.	tio	tio	Mean Mean Max Max Dist. Dist.	
	B4	Μ	B4	\mathbf{M}	B4	\mathbf{M}	B4	Μ	B4 M B4 M B4 M	actualdiff
RELIGION(1	3)0.00028	389 00	0 0000 004	4 1058 00	4153 -	-	NA	NA	0.0001 2.64 04 1.56 01 264 04 15A 0.020	038 2.7 0004153
Scientology					0.0062	0 65 0203	827			
OCCUP(09)	0.03148	M 18	27020178	3507.017	8 5071 029	0 01 0031	3 15 8A	NA	0.013 62705 04 1.63 3 62706 04 N5A 0.266	65441.0004153
legal										
services										
OCCUP(10)	0.00898	M0 17	4 4019 178	8507.017	8571 -	-	NA	NA	0.0089 0.28 04 1.56 89 0028 04 15A 0.266	02 7025 0004153
manufac-					0.0672	2 62 0031	358			
tur-										
ing/distribution	ons									
SERVICES(6)	0.02339	369 29	4 %50 290	069829	0698 -	0.0024	7N9A	NA	0.005 67.29 04 1.66 5 67.29 04 15A 0.343	359 2.4 0004153
more than 0.0337668										
once a week										
REGION(2)	0.25158	382 69	9 3 38 2 695	5 1083 69	5183 -	0.0009	3 N 9A	NA	0.0179 2.96 04 1.53 79 296 04 15A 0.929	380.4 0004153
Chicago, IL					0.0404	084				
RELIGION(0	80.0199	300 05	8104 0 058	8 1040 05	81040856	796 0000	O IN OA	NA	0.0141 0.67 00 000410167 000 00A 0.010	7973000000
Jewish										
RELIGION(1	5)0.1938	1086 196	4 286 964	1 286 96	4286 -	0.0000	0 101 0A	NA	0.002 61.00 00 000261.00 00 00A 0.316	644 52 0000000
no answer					0.0065	693				
LANG_PORT	Γ U.CI4E	SH4 (015)	8104 0 058	8 1040 05	810410172	9 23 000	O N OA	NA	0.0089 1.70 00 000891.70 00 00A 0.013	162 7.9 000000
yes										

```
#
# mat_nearest_ATC_wr <- matchit(CGRAD ~ SEX + REGION + AGE + ETHNICITY + MARSTAT + BODY + HEIGHT_FT + H
#
# mat_nearest_ATC_wr
# options(max.print=3000)
# sum_MatwrATC <- summary(mat_nearest_ATC_wr)</pre>
# #sum fullATE
#
# summarydf_sum_MatwrATC <- cbind(</pre>
    "Means Treated B4" = sum_MatwrATC$sum.all[, "Means Treated"],
#
#
    "Means Treated M" = sum_MatwrATC$sum.matched[, "Means Treated"],
    "Means Control B4" = sum_MatwrATC$sum.all[, "Means Control"],
#
    "Means Control M" = sum_MatwrATC$sum.matched[, "Means Control"],
    "Std. Mean Diff. B4" = sum_MatwrATC$sum.all[, "Std. Mean Diff."],
#
    "Std. Mean Diff. M" = sum_MatwrATC$sum.matched[, "Std. Mean Diff."],
    "Var. Ratio B4" = sum_MatwrATC$sum.all[, "Var. Ratio"],
#
#
    "Var. Ratio M" = sum_MatwrATC$sum.matched[, "Var. Ratio"],
#
    "eCDF Mean B4" = sum_MatwrATC$sum.all[, "eCDF Mean"],
#
    "eCDF Mean M" = sum_MatwrATC$sum.matched[,"eCDF Mean"],
    "eCDF Max B4" = sum_MatwrATC$sum.all[, "eCDF Max"],
#
    "eCDF Max M" = sum_MatwrATC$sum.matched[, "eCDF Max"],
#
    "Std. Pair Dist. B4" = sum MatwrATC$sum.all[, "Std. Pair Dist."],
#
    "Std. Pair Dist. M" = sum_MatwrATC$sum.matched[, "Std. Pair Dist."]
# )
```

```
# summarydf_sum_MatwrATC <- as.data.frame(summarydf_sum_MatwrATC)</pre>
# view(summarydf_sum_MatwrATC)
# summarynn_sum_MatwrATC <- sum_MatwrATC$nn</pre>
# summarynn sum MatwrATC
#
# bal.plot(mat_nearest_ATC_wr, type = "histogram")
#
# stdm_sum_MatwrATC <- summarydf_sum_MatwrATC[order(-abs(summarydf_sum_MatwrATC$"Std. Mean Diff. M")),
#
# #sorting it so its in descending order (largest std to smallest)
# table2 <- round(head(stdm_sum_MatwrATC, n= 7), digits = 4)
# setwd("~/R")
# write.csv(table2, "table2.csv", row.names = T)
#
# #sort covariates by absolute value of standarzied mean difference
# stdm_sum_MatwrATC <- stdm_sum_MatwrATC %>% relocate("Std. Mean_Diff. M", .before = "Means Treated B4"
# stdm_sum_MatwrATC
```

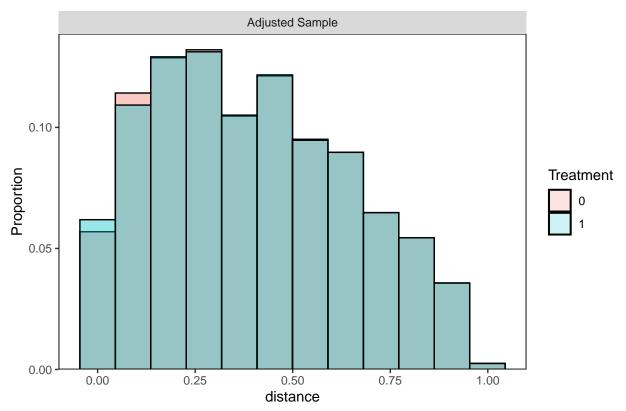
Step 3: Create a propensity model and assess balance and overlap

Step 4: Edit Propensity Score model to create better balance

```
## A matchit object
## - method: 1:1 nearest neighbor matching with replacement
## - distance: Propensity score
##
                - estimated with probit regression
## - number of obs.: 5870 (original), 3436 (matched)
## - target estimand: ATC
## - covariates: SEX, REGION, AGE, ETHNICITY, MARSTAT, BODY, HEIGHT_FT, HEIGHT_IN, SMOKING, DRINKING,
options(max.print=3000)
sum_MatwrATC4 <- summary(mat_nearest_ATC_wr4)</pre>
#sum_MatwrATC4
summarydf sum MatwrATC4 <- cbind(</pre>
 "Means Treated B4" = sum_MatwrATC4$sum.all[,"Means Treated"],
  "Means Treated M" = sum_MatwrATC4$sum.matched[,"Means Treated"],
  "Means Control B4" = sum_MatwrATC4$sum.all[,"Means Control"],
  "Means Control M" = sum_MatwrATC4$sum.matched[, "Means Control"],
  "Std. Mean Diff. B4" = sum MatwrATC4$sum.all[, "Std. Mean Diff."],
```

```
"Std. Mean Diff. M" = sum_MatwrATC4$sum.matched[,"Std. Mean Diff."],
  "Var. Ratio B4" = sum_MatwrATC4$sum.all[,"Var. Ratio"],
  "Var. Ratio M" = sum_MatwrATC4$sum.matched[,"Var. Ratio"],
 "eCDF Mean B4" = sum_MatwrATC4$sum.all[,"eCDF Mean"],
  "eCDF Mean M" = sum_MatwrATC4$sum.matched[,"eCDF Mean"],
  "eCDF Max B4" = sum_MatwrATC4$sum.all[,"eCDF Max"],
 "eCDF Max M" = sum_MatwrATC4$sum.matched[,"eCDF Max"],
 "Std. Pair Dist. B4" = sum MatwrATC4$sum.all[, "Std. Pair Dist."],
  "Std. Pair Dist. M" = sum_MatwrATC4$sum.matched[,"Std. Pair Dist."]
summarydf_sum_MatwrATC4 <- as.data.frame(summarydf_sum_MatwrATC4)</pre>
view(summarydf_sum_MatwrATC4)
summarynn_sum_MatwrATC4 <- sum_MatwrATC4$nn</pre>
summarynn_sum_MatwrATC4
##
                 Control
                           Treated
## All (ESS)
                    2408 3462.0000
## All
                    2408 3462.0000
## Matched (ESS)
                    2408 350.9966
## Matched
                    2408 1028.0000
## Unmatched
                       0 2434.0000
                            0.0000
## Discarded
                       0
bal.plot(mat_nearest_ATC_wr4, type = "histogram")
## No `var.name` was provided. Displaying balance for distance.
## Warning: No shared levels found between `names(values)` of the manual scale and the
## data's colour values.
```

Distributional Balance for "distance"



```
#sort covariates by absolute value mean difference

stdm_sum_MatwrATC4 <- summarydf_sum_MatwrATC4[order(-abs(summarydf_sum_MatwrATC4$"eCDF Mean M")), ] #sort

# table3 <- round(head(stdm_sum_MatwrATC4, n= 7), digits = 4)

# setwd("~/R")

# write.csv(table3, "table3.csv", row.names = T)

stdm_sum_MatwrATC4 <- stdm_sum_MatwrATC4 %>% relocate("eCDF Mean M", .before = "Means Treated B4") #mov

stdm_sum_MatwrATC4
```

```
##
                                                      eCDF Mean M Means Treated B4
## AGE
                                                     4.904108e-02
                                                                       3.260023e+01
## RELIGION(11) Christian
                                                     3.696013e-02
                                                                       3.362218e-01
## LIVE_KIDS(0) no
                                                     3.612957e-02
                                                                       6.239168e-01
## HAVEKIDS(1) yes, at home full-time
                                                     3.197674e-02
                                                                       7.336800e-02
## POLITICS(6) no answer
                                                     3.156146e-02
                                                                       2.697863e-01
## SERVICES(5) weekly
                                                     3.114618e-02
                                                                       1.574235e-01
## HAVEKIDS(0) no
                                                     2.906977e-02
                                                                       7.833622e-01
## LIVE_KIDS(1) yes
                                                     2.616279e-02
                                                                       6.065858e-02
## OCCUP(18) no answer
                                                     2.574751e-02
                                                                      7.452340e-02
## LIVE_PETS(0) no
                                                                       6.036973e-01
                                                     2.533223e-02
## MARSTAT(0) single-never married
                                                     2.450166e-02
                                                                       7.614096e-01
## SMOKING(1) no
                                                     2.367110e-02
                                                                       8.492201e-01
## LANG_ITALIAN(0) no
                                                     2.367110e-02
                                                                       6.874639e-01
## SERVICES(0) no answer
                                                     2.367110e-02
                                                                       2.666089e-01
```

```
## MARSTAT(1) divorced
                                                     2.117940e-02
                                                                      1.813980e-01
## EMPSTAT(5) student
                                                     2.117940e-02
                                                                      4.621606e-02
## RELIGION(14) Other
                                                     2.117940e-02
                                                                      3.755055e-02
## RELIGION(15) no answer
                                                     2.034884e-02
                                                                      1.938186e-01
## HEIGHT IN
                                                     2.014120e-02
                                                                      5.567591e+00
## LIVE PARTY(0) no
                                                     1.910299e-02
                                                                      6.808203e-01
## INCOME(0) no answer
                                                     1.910299e-02
                                                                      5.577701e-01
## POLITICS(5) not political
                                                     1.910299e-02
                                                                      1.129405e-01
## REGION(2) Chicago, IL
                                                     1.868771e-02
                                                                      2.515887e-01
## BODY(6) a few extra pounds
                                                     1.785714e-02
                                                                      3.870595e-02
## RELIGION(03) Christian/Catholic
                                                     1.785714e-02
                                                                      1.340266e-01
## LANG_RUSSIAN(0) no
                                                     1.785714e-02
                                                                      6.998845e-01
## SMOKING(2) occasionally
                                                     1.744186e-02
                                                                      9.300982e-02
## LIVE_ALONE(1) yes
                                                     1.702658e-02
                                                                      4.020797e-01
## SEX(0) female
                                                     1.661130e-02
                                                                      4.653380e-01
## SEX(1) male
                                                     1.661130e-02
                                                                      5.346620e-01
## LIVE_PETS(1) yes
                                                     1.578073e-02
                                                                      8.058925e-02
## INCOME(3) $35,000 to $49,999
                                                     1.578073e-02
                                                                      8.954362e-02
## ETHNICITY(4) Hispanic/Latino
                                                                      1.770653e-01
                                                     1.536545e-02
## EMPSTAT(8) no answer
                                                     1.495017e-02
                                                                      3.177354e-02
## SERVICES(3) only on holidays
                                                     1.495017e-02
                                                                      9.734258e-02
## LANG ARABIC(0) no
                                                     1.411960e-02
                                                                      7.073946e-01
## OCCUP(00) artistic/musical/writer
                                                     1.411960e-02
                                                                      5.719237e-02
## LANG FRENCH(0) no
                                                     1.370432e-02
                                                                      6.548238e-01
## LANG DUTCH(0) no
                                                     1.370432e-02
                                                                      7.073946e-01
## LANG TAGALOG(0) no
                                                     1.370432e-02
                                                                      6.744656e-01
## HAVEKIDS(3) yes, but not at home
                                                     1.328904e-02
                                                                      8.058925e-02
## LANG_FRENCH(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG_GERMAN(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG_ITALIAN(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG_SPANISH(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG_PORTUGUESE(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG_DUTCH(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG_CHINESE(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG JAPANESE(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG_ARABIC(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG RUSSIAN(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG_HEBREW(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG HINDI(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG_TAGALOG(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG URDU(2) no answer
                                                     1.328904e-02
                                                                      2.902946e-01
## LANG GERMAN(0) no
                                                     1.287375e-02
                                                                      6.894858e-01
## SERVICES(2) rarely
                                                     1.245847e-02
                                                                      2.628538e-01
## LANG_URDU(0) no
                                                     1.245847e-02
                                                                      7.019064e-01
## REGION(3) Atlanta, GA
                                                     1.204319e-02
                                                                      2.209705e-01
## LANG_HEBREW(0) no
                                                     1.162791e-02
                                                                      7.085500e-01
## LIVE_PAR(1) yes
                                                     1.162791e-02
                                                                      4.274986e-02
## LANG_SPANISH(0) no
                                                     1.162791e-02
                                                                      5.389948e-01
## LIVE_FAM(0) no
                                                     1.121262e-02
                                                                      6.415367e-01
## LANG_HINDI(0) no
                                                     1.121262e-02
                                                                      6.969960e-01
## ETHNICITY(2) Caucasian
                                                     1.121262e-02
                                                                      2.954939e-01
## WANTKIDS(0) no
                                                    1.121262e-02
                                                                      1.016753e-01
## BODY(4) fit
                                                    1.079734e-02
                                                                      6.441363e-02
## OCCUP(02) clerical/administrative
                                                     1.079734e-02
                                                                      2.339688e-02
```

```
## LANG ITALIAN(1) yes
                                                     1.038206e-02
                                                                      2.224148e-02
## LIVE ALONE(2) no answer
                                                     1.038206e-02
                                                                      3.134027e-01
                                                     1.038206e-02
## LANG JAPANESE(0) no
                                                                      6.837088e-01
## LANG_PORTUGUESE(0) no
                                                     1.038206e-02
                                                                      6.949740e-01
## LIVE KIDS(2) no answer
                                                     9.966777e-03
                                                                      3.154246e-01
## LANG CHINESE(0) no
                                                     9.551495e-03
                                                                      6.262276e-01
## BODY(7) large
                                                     9.551495e-03
                                                                      1.097631e-02
                                                     9.551495e-03
## LIVE PARTY(1) yes
                                                                      3.466205e-03
## HAVEKIDS(4) no answer
                                                     9.551495e-03
                                                                      3.350664e-02
## OCCUP(01) banking/financial services/real estate 9.551495e-03
                                                                      1.181398e-01
## OCCUP(08) hospitality/travel
                                                     9.551495e-03
                                                                      1.502022e-02
## OCCUP(14) technical science/engineering
                                                     9.551495e-03
                                                                      8.434431e-02
## LIVE_PAR(2) no answer
                                                     9.551495e-03
                                                                      3.157135e-01
## LIVE_PETS(2) no answer
                                                                      3.157135e-01
                                                     9.551495e-03
## LIVE_ROOM(2) no answer
                                                     9.551495e-03
                                                                      3.157135e-01
## LIVE_FAM(2) no answer
                                                     9.551495e-03
                                                                      3.157135e-01
## LIVE_PARTY(2) no answer
                                                     9.551495e-03
                                                                      3.157135e-01
## OCCUP(13) sales/marketing
                                                     9.551495e-03
                                                                      7.943385e-02
## MARSTAT(3) separated
                                                     8.720930e-03
                                                                      2.541883e-02
## OCCUP(17) other
                                                     8.305648e-03
                                                                      8.665511e-02
## DRINKING(2) occasionally
                                                     7.890365e-03
                                                                      8.238013e-01
## ETHNICITY(1) Asian
                                                     7.890365e-03
                                                                      3.032929e-01
## OCCUP(16) food service
                                                     7.475083e-03
                                                                      1.733102e-03
## WANTKIDS(3) no answer
                                                     7.059801e-03
                                                                      2.021953e-01
## INCOME(2) $25,000 to $34,999y
                                                     7.059801e-03
                                                                      4.217215e-02
## SERVICES(4) monthly
                                                     7.059801e-03
                                                                      8.665511e-02
## POLITICS(2) middle of the road
                                                     7.059801e-03
                                                                      3.076256e-01
## LIVE_ALONE(0) no
                                                     6.644518e-03
                                                                      2.845176e-01
## POLITICS(3) liberal
                                                     6.644518e-03
                                                                      1.964183e-01
## HAVEKIDS(2) yes, at home part-time
                                                     6.644518e-03
                                                                      2.917389e-02
## OCCUP(03) computer related/hardware
                                                     6.229236e-03
                                                                      7.452340e-02
## OCCUP(04) construction/craftsman
                                                     6.229236e-03
                                                                      1.010976e-02
## RELIGION(12) Not religious
                                                     6.229236e-03
                                                                      3.321779e-02
## LIVE_ROOM(1) yes
                                                     5.813953e-03
                                                                      1.554015e-01
## DRINKING(0) no answer
                                                     5.813953e-03
                                                                      2.021953e-02
## RELIGION(06) Christian/Other
                                                                      1.617562e-02
                                                     5.813953e-03
## BODY(0) slim
                                                     5.813953e-03
                                                                      1.213172e-01
## OCCUP(06) entertainment/media
                                                     5.398671e-03
                                                                      5.805893e-02
## OCCUP(12) politics/government/military
                                                     5.398671e-03
                                                                      2.253033e-02
## WANTKIDS(1) yes
                                                     5.398671e-03
                                                                      4.560947e-01
## INCOME(4) $50,000 to $74,999
                                                                      1.282496e-01
                                                     5.398671e-03
## OCCUP(11) medical/health services
                                                     4.983389e-03
                                                                      8.723281e-02
## OCCUP(10) manufacturing/distributions
                                                     4.983389e-03
                                                                      8.954362e-03
## SERVICES(1) never
                                                     4.983389e-03
                                                                      1.057192e-01
## HEIGHT_FT
                                                     4.879568e-03
                                                                      5.180820e+00
## BODY(8) voluptous
                                                     4.568106e-03
                                                                      1.704217e-02
## EMPSTAT(6) unemployed
                                                     4.568106e-03
                                                                      2.599653e-03
## LANG_RUSSIAN(1) yes
                                                     4.568106e-03
                                                                      9.820913e-03
## SMOKING(0) no answer
                                                     4.568106e-03
                                                                      3.466205e-02
## BODY(3) athletic
                                                     4.152824e-03
                                                                      3.379549e-01
## ETHNICITY(0) African American
                                                     3.737542e-03
                                                                      2.241479e-01
## MARSTAT(4) no answer
                                                     3.737542e-03
                                                                      2.310803e-02
## LANG_CHINESE(1) yes
                                                     3.737542e-03
                                                                      8.347776e-02
## REGION(0) Los Angeles, CA
                                                     3.737542e-03
                                                                      2.322357e-01
```

```
## LIVE ROOM(0) no
                                                    3.737542e-03
                                                                      5.288850e-01
## BODY(2) average
                                                    3.322259e-03
                                                                      2.911612e-01
## EMPSTAT(1) part-time
                                                    3.322259e-03
                                                                      2.975159e-02
## BODY(1) slender
                                                    3.322259e-03
                                                                      6.152513e-02
## REGION(1) New York/New Jersey
                                                    2.906977e-03
                                                                      2.952051e-01
## EMPSTAT(0) full-time
                                                    2.906977e-03
                                                                      7.712305e-01
## RELIGION(10) Spiritual but not religious
                                                    2.906977e-03
                                                                      1.045638e-01
## LANG PORTUGUESE(1) yes
                                                    2.906977e-03
                                                                      1.473137e-02
## LANG JAPANESE(1) yes
                                                    2.906977e-03
                                                                      2.599653e-02
## INCOME(1) less than $24,999
                                                    2.491694e-03
                                                                      2.224148e-02
## INCOME(7) $150,000+
                                                    2.491694e-03
                                                                      4.477181e-02
## LIVE_PAR(0) no
                                                    2.076412e-03
                                                                      6.415367e-01
## LANG_ENGLISH(1) yes
                                                    2.076412e-03
                                                                      9.968226e-01
## RELIGION(00) none/agnostic
                                                    2.076412e-03
                                                                      5.574812e-02
## SERVICES(6) more than once a week
                                                    2.076412e-03
                                                                      2.339688e-02
## DRINKING(3) often
                                                    2.076412e-03
                                                                      4.910456e-03
## LANG_HINDI(1) yes
                                                    2.076412e-03
                                                                      1.270942e-02
## BODY(9) no answer
                                                    2.076412e-03
                                                                      1.184287e-02
## EMPSTAT(2) homemaker
                                                    2.076412e-03
                                                                      2.599653e-03
## LANG ENGLISH(0) no
                                                    2.076412e-03
                                                                      3.177354e-03
## SMOKING(3) often
                                                    1.661130e-03
                                                                      2.310803e-02
## MARSTAT(2) widowed
                                                    1.661130e-03
                                                                      8.665511e-03
## INCOME(5) $75,000 to $99,999
                                                    1.661130e-03
                                                                      7.019064e-02
## RELIGION(08) Jewish
                                                    1.661130e-03
                                                                      1.993068e-02
## LANG HEBREW(1) yes
                                                    1.661130e-03
                                                                      1.155402e-03
## RELIGION(09) Islam
                                                    1.661130e-03
                                                                      7.221259e-03
## BODY(5) thick
                                                    1.661130e-03
                                                                      4.506066e-02
## LIVE_FAM(1) yes
                                                    1.661130e-03
                                                                      4.274986e-02
## EMPSTAT(4) self-employed
                                                    1.661130e-03
                                                                      1.106297e-01
## OCCUP(07) executive/management
                                                    1.661130e-03
                                                                      7.741190e-02
## LANG_SPANISH(1) yes
                                                    1.661130e-03
                                                                      1.707106e-01
## OCCUP(09) legal services
                                                    1.245847e-03
                                                                      3.148469e-02
## RELIGION(04) Christian/LDS
                                                    1.245847e-03
                                                                      8.665511e-04
## RELIGION(05) Christian/Protestant
                                                    1.245847e-03
                                                                      2.281918e-02
## OCCUP(05) education/academic research
                                                    1.245847e-03
                                                                      7.972270e-02
## POLITICS(4) very liberal
                                                    1.245847e-03
                                                                      3.292894e-02
## WANTKIDS(2) not sure
                                                    1.245847e-03
                                                                      2.400347e-01
## OCCUP(15) transportation
                                                    8.305648e-04
                                                                      9.532062e-03
## RELIGION(01) Atheist
                                                    8.305648e-04
                                                                      7.798960e-03
## POLITICS(0) very conservative
                                                    8.305648e-04
                                                                      6.354708e-03
## LANG URDU(1) yes
                                                    8.305648e-04
                                                                      7.798960e-03
## LANG ARABIC(1) yes
                                                    8.305648e-04
                                                                      2.310803e-03
## POLITICS(1) conservative
                                                    8.305648e-04
                                                                      7.394570e-02
## distance
                                                    5.136704e-04
                                                                      7.233403e-01
## LANG_FRENCH(1) yes
                                                                      5.488157e-02
                                                    4.152824e-04
## EMPSTAT(7) work at home
                                                    4.152824e-04
                                                                      3.755055e-03
## LANG_TAGALOG(1) yes
                                                    4.152824e-04
                                                                      3.523975e-02
## LANG_DUTCH(1) yes
                                                                      2.310803e-03
                                                    4.152824e-04
## RELIGION(07) Hindu
                                                    4.152824e-04
                                                                      6.643559e-03
## RELIGION(13) Scientology
                                                    4.152824e-04
                                                                      2.888504e-04
## EMPSTAT(3) retired
                                                    4.152824e-04
                                                                      1.444252e-03
## RELIGION(02) Buddhist/Taoist
                                                                      2.310803e-02
                                                    4.152824e-04
## LANG GERMAN(1) yes
                                                    4.152824e-04
                                                                      2.021953e-02
## DRINKING(1) no
                                                    2.775558e-17
                                                                      1.510687e-01
```

##	INCOME(6) \$100,000 to \$149,999	0.000000e+00	4.506066e-02
##		Means Treated M	
##	AGE	3.011005e+01	
##	RELIGION(11) Christian	3.936877e-01	
##	LIVE_KIDS(0) no	5.020764e-01	
##	HAVEKIDS(1) yes, at home full-time	1.914452e-01	
	POLITICS(6) no answer	3.073090e-01	
##	SERVICES(5) weekly	1.943522e-01	
##	HAVEKIDS(0) no	6.175249e-01	
##	LIVE_KIDS(1) yes	1.499169e-01	
##	OCCUP(18) no answer	1.017442e-01	
##	LIVE_PETS(0) no	5.510797e-01	
##	MARSTAT(0) single-never married	6.918605e-01	
	SMOKING(1) no	7.616279e-01	
##	LANG_ITALIAN(O) no	6.665282e-01	
##	SERVICES(0) no answer	2.446013e-01	
##	MARSTAT(1) divorced	2.254983e-01	
##	EMPSTAT(5) student	1.416113e-01	
##	RELIGION(14) Other	6.187708e-02	
##	RELIGION(15) no answer	1.760797e-01	
##	HEIGHT_IN	5.750000e+00	
##	LIVE_PARTY(0) no	6.328904e-01	
##	INCOME(0) no answer	5.066445e-01	
##	POLITICS(5) not political	2.142857e-01	
##	REGION(2) Chicago, IL	2.882060e-01	
##	BODY(6) a few extra pounds	8.430233e-02	
##	RELIGION(03) Christian/Catholic	1.781561e-01	
##	LANG_RUSSIAN(0) no	6.777409e-01	
	SMOKING(2) occasionally	1.465947e-01	
	LIVE_ALONE(1) yes	2.250831e-01	
	SEX(0) female	5.265781e-01	
	SEX(1) male	4.734219e-01	
	LIVE_PETS(1) yes	1.009136e-01	
	INCOME(3) \$35,000 to \$49,999	1.416113e-01	
	ETHNICITY(4) Hispanic/Latino	3.783223e-01	
	EMPSTAT(8) no answer	2.242525e-02	
	SERVICES(3) only on holidays	9.634551e-02	
	LANG_ARABIC(O) no	6.839701e-01	
	OCCUP(00) artistic/musical/writer	7.392027e-02	
	LANG_FRENCH(0) no	6.636213e-01	
	LANG_DUTCH(0) no	6.877076e-01	
	LANG_TAGALOG(0) no	6.748339e-01	
	HAVEKIDS(3) yes, but not at home	1.320598e-01	
	LANG_FRENCH(2) no answer	3.110465e-01	
	LANG_GERMAN(2) no answer	3.110465e-01	
	LANG_ITALIAN(2) no answer	3.110465e-01	
	LANG_SPANISH(2) no answer	3.110465e-01	
	LANG_PORTUGUESE(2) no answer	3.110465e-01	
	LANG_DUTCH(2) no answer	3.110465e-01	
	LANG_CHINESE(2) no answer	3.110465e-01	
	LANG_JAPANESE(2) no answer	3.110465e-01	
	LANG_ARABIC(2) no answer	3.110465e-01 3.110465e-01	
	LANG_RUSSIAN(2) no answer LANG_HEBREW(2) no answer		
##	TYMO HEDINEM (S) HO SHEART	3.110465e-01	

```
## LANG HINDI(2) no answer
                                                        3.110465e-01
## LANG_TAGALOG(2) no answer
                                                        3.110465e-01
## LANG URDU(2) no answer
                                                        3.110465e-01
## LANG_GERMAN(0) no
                                                        6.794020e-01
## SERVICES(2) rarely
                                                        2.736711e-01
## LANG URDU(0) no
                                                        6.864618e-01
## REGION(3) Atlanta, GA
                                                        2.329734e-01
## LANG HEBREW(0) no
                                                        6.885382e-01
## LIVE PAR(1) yes
                                                        1.262458e-01
## LANG_SPANISH(0) no
                                                        4.559801e-01
## LIVE_FAM(0) no
                                                        5.884551e-01
## LANG_HINDI(0) no
                                                        6.872924e-01
## ETHNICITY(2) Caucasian
                                                        1.885382e-01
## WANTKIDS(0) no
                                                        1.544850e-01
## BODY(4) fit
                                                        3.779070e-02
## OCCUP(02) clerical/administrative
                                                        7.599668e-02
## LANG_ITALIAN(1) yes
                                                        2.242525e-02
## LIVE ALONE(2) no answer
                                                        3.480066e-01
## LANG_JAPANESE(0) no
                                                        6.789867e-01
## LANG PORTUGUESE(0) no
                                                        6.860465e-01
## LIVE_KIDS(2) no answer
                                                        3.480066e-01
## LANG CHINESE(0) no
                                                        6.640365e-01
## BODY(7) large
                                                        9.551495e-03
## LIVE PARTY(1) yes
                                                        1.910299e-02
## HAVEKIDS(4) no answer
                                                        2.242525e-02
## OCCUP(01) banking/financial services/real estate
                                                        5.274086e-02
## OCCUP(08) hospitality/travel
                                                        2.823920e-02
## OCCUP(14) technical science/engineering
                                                        5.647841e-02
## LIVE_PAR(2) no answer
                                                        3.480066e-01
## LIVE_PETS(2) no answer
                                                        3.480066e-01
## LIVE_ROOM(2) no answer
                                                        3.480066e-01
## LIVE_FAM(2) no answer
                                                        3.480066e-01
## LIVE_PARTY(2) no answer
                                                        3.480066e-01
## OCCUP(13) sales/marketing
                                                        5.523256e-02
## MARSTAT(3) separated
                                                        4.152824e-02
## OCCUP(17) other
                                                        1.648671e-01
## DRINKING(2) occasionally
                                                        8.019103e-01
## ETHNICITY(1) Asian
                                                        1.283223e-01
## OCCUP(16) food service
                                                        8.305648e-03
## WANTKIDS(3) no answer
                                                        1.785714e-01
## INCOME(2) $25,000 to $34,999y
                                                        1.270764e-01
## SERVICES(4) monthly
                                                        8.098007e-02
## POLITICS(2) middle of the road
                                                        2.421096e-01
## LIVE_ALONE(0) no
                                                        4.269103e-01
## POLITICS(3) liberal
                                                        1.295681e-01
## HAVEKIDS(2) yes, at home part-time
                                                        3.654485e-02
## OCCUP(03) computer related/hardware
                                                        6.187708e-02
## OCCUP(04) construction/craftsman
                                                        3.156146e-02
## RELIGION(12) Not religious
                                                        2.117940e-02
## LIVE_ROOM(1) yes
                                                        1.569767e-01
## DRINKING(0) no answer
                                                        1.951827e-02
## RELIGION(06) Christian/Other
                                                        1.536545e-02
## BODY(0) slim
                                                        1.054817e-01
## OCCUP(06) entertainment/media
                                                        3.903654e-02
```

```
## OCCUP(12) politics/government/military
                                                        4.734219e-02
## WANTKIDS(1) yes
                                                        3.754153e-01
## INCOME(4) $50,000 to $74,999
                                                        8.679402e-02
## OCCUP(11) medical/health services
                                                        6.229236e-02
## OCCUP(10) manufacturing/distributions
                                                        2.284053e-02
## SERVICES(1) never
                                                        7.890365e-02
## HEIGHT FT
                                                        5.134967e+00
## BODY(8) voluptous
                                                        3.737542e-02
## EMPSTAT(6) unemployed
                                                        4.568106e-03
## LANG_RUSSIAN(1) yes
                                                        1.121262e-02
## SMOKING(0) no answer
                                                        3.945183e-02
## BODY(3) athletic
                                                        2.254983e-01
## ETHNICITY(0) African American
                                                        3.048173e-01
## MARSTAT(4) no answer
                                                        3.197674e-02
## LANG_CHINESE(1) yes
                                                        2.491694e-02
## REGION(0) Los Angeles, CA
                                                        2.732558e-01
## LIVE_ROOM(0) no
                                                        4.950166e-01
## BODY(2) average
                                                        3.347176e-01
## EMPSTAT(1) part-time
                                                        8.637874e-02
## BODY(1) slender
                                                        4.028239e-02
## REGION(1) New York/New Jersey
                                                        2.055648e-01
## EMPSTAT(0) full-time
                                                        6.482558e-01
## RELIGION(10) Spiritual but not religious
                                                        7.433555e-02
## LANG PORTUGUESE(1) yes
                                                        2.906977e-03
## LANG JAPANESE(1) yes
                                                        9.966777e-03
## INCOME(1) less than $24,999
                                                        1.004983e-01
## INCOME(7) $150,000+
                                                        4.983389e-03
## LIVE_PAR(0) no
                                                        5.257475e-01
## LANG_ENGLISH(1) yes
                                                        9.970930e-01
## RELIGION(00) none/agnostic
                                                        3.529900e-02
## SERVICES(6) more than once a week
                                                        3.114618e-02
## DRINKING(3) often
                                                        7.059801e-03
## LANG_HINDI(1) yes
                                                        1.661130e-03
## BODY(9) no answer
                                                        1.204319e-02
## EMPSTAT(2) homemaker
                                                        9.551495e-03
## LANG ENGLISH(0) no
                                                        2.906977e-03
## SMOKING(3) often
                                                        5.232558e-02
## MARSTAT(2) widowed
                                                        9.136213e-03
## INCOME(5) $75,000 to $99,999
                                                        2.450166e-02
## RELIGION(08) Jewish
                                                        7.475083e-03
## LANG HEBREW(1) yes
                                                        4.152824e-04
## RELIGION(09) Islam
                                                        3.322259e-03
## BODY(5) thick
                                                        1.129568e-01
## LIVE_FAM(1) yes
                                                        6.353821e-02
## EMPSTAT(4) self-employed
                                                        7.848837e-02
## OCCUP(07) executive/management
                                                        3.820598e-02
## LANG_SPANISH(1) yes
                                                        2.329734e-01
## OCCUP(09) legal services
                                                        1.910299e-02
## RELIGION(04) Christian/LDS
                                                        4.152824e-04
## RELIGION(05) Christian/Protestant
                                                        1.245847e-02
                                                        2.782392e-02
## OCCUP(05) education/academic research
## POLITICS(4) very liberal
                                                        2.408638e-02
## WANTKIDS(2) not sure
                                                        2.915282e-01
## OCCUP(15) transportation
                                                        3.239203e-02
```

```
## RELIGION(01) Atheist
                                                        3.737542e-03
## POLITICS(0) very conservative
                                                        9.966777e-03
                                                        2.491694e-03
## LANG URDU(1) yes
## LANG_ARABIC(1) yes
                                                        4.983389e-03
## POLITICS(1) conservative
                                                        7.267442e-02
## distance
                                                        3.989653e-01
## LANG FRENCH(1) yes
                                                        2.533223e-02
## EMPSTAT(7) work at home
                                                        6.229236e-03
## LANG TAGALOG(1) yes
                                                        1.411960e-02
## LANG_DUTCH(1) yes
                                                        1.245847e-03
## RELIGION(07) Hindu
                                                        4.152824e-04
## RELIGION(13) Scientology
                                                        8.305648e-04
## EMPSTAT(3) retired
                                                        2.491694e-03
## RELIGION(02) Buddhist/Taoist
                                                        1.536545e-02
## LANG_GERMAN(1) yes
                                                        9.551495e-03
## DRINKING(1) no
                                                        1.715116e-01
## INCOME(6) $100,000 to $149,999
                                                        7.890365e-03
##
                                                     Means Control B4
## AGE
                                                         2.975498e+01
## RELIGION(11) Christian
                                                         3.567276e-01
## LIVE_KIDS(0) no
                                                         5.382060e-01
## HAVEKIDS(1) yes, at home full-time
                                                         1.594684e-01
## POLITICS(6) no answer
                                                         3.388704e-01
## SERVICES(5) weekly
                                                         1.632060e-01
## HAVEKIDS(0) no
                                                         6.465947e-01
## LIVE KIDS(1) yes
                                                         1.237542e-01
## OCCUP(18) no answer
                                                         1.274917e-01
## LIVE_PETS(0) no
                                                         5.764120e-01
## MARSTAT(0) single-never married
                                                         7.163621e-01
## SMOKING(1) no
                                                         7.379568e-01
## LANG_ITALIAN(0) no
                                                         6.901993e-01
## SERVICES(0) no answer
                                                         2.682724e-01
## MARSTAT(1) divorced
                                                         2.043189e-01
## EMPSTAT(5) student
                                                         1.204319e-01
## RELIGION(14) Other
                                                         8.305648e-02
## RELIGION(15) no answer
                                                         1.964286e-01
## HEIGHT_IN
                                                         5.617940e+00
## LIVE_PARTY(0) no
                                                         6.519934e-01
## INCOME(0) no answer
                                                         5.257475e-01
## POLITICS(5) not political
                                                         1.951827e-01
## REGION(2) Chicago, IL
                                                         2.695183e-01
## BODY(6) a few extra pounds
                                                         6.644518e-02
## RELIGION(03) Christian/Catholic
                                                         1.602990e-01
## LANG_RUSSIAN(0) no
                                                         6.955980e-01
## SMOKING(2) occasionally
                                                         1.640365e-01
## LIVE_ALONE(1) yes
                                                         2.421096e-01
## SEX(0) female
                                                         5.099668e-01
## SEX(1) male
                                                         4.900332e-01
## LIVE_PETS(1) yes
                                                         8.513289e-02
## INCOME(3) $35,000 to $49,999
                                                         1.258306e-01
## ETHNICITY(4) Hispanic/Latino
                                                         3.629568e-01
## EMPSTAT(8) no answer
                                                         3.737542e-02
## SERVICES(3) only on holidays
                                                         8.139535e-02
## LANG ARABIC(0) no
                                                         6.980897e-01
```

```
## OCCUP(00) artistic/musical/writer
                                                         5.980066e-02
## LANG FRENCH(0) no
                                                         6.773256e-01
## LANG DUTCH(0) no
                                                         7.014120e-01
## LANG_TAGALOG(0) no
                                                         6.885382e-01
## HAVEKIDS(3) yes, but not at home
                                                         1.187708e-01
## LANG FRENCH(2) no answer
                                                         2.977575e-01
## LANG GERMAN(2) no answer
                                                         2.977575e-01
## LANG ITALIAN(2) no answer
                                                         2.977575e-01
## LANG SPANISH(2) no answer
                                                         2.977575e-01
## LANG_PORTUGUESE(2) no answer
                                                         2.977575e-01
## LANG_DUTCH(2) no answer
                                                         2.977575e-01
## LANG_CHINESE(2) no answer
                                                         2.977575e-01
## LANG_JAPANESE(2) no answer
                                                         2.977575e-01
## LANG_ARABIC(2) no answer
                                                         2.977575e-01
## LANG_RUSSIAN(2) no answer
                                                         2.977575e-01
## LANG_HEBREW(2) no answer
                                                         2.977575e-01
## LANG_HINDI(2) no answer
                                                         2.977575e-01
## LANG TAGALOG(2) no answer
                                                         2.977575e-01
## LANG_URDU(2) no answer
                                                         2.977575e-01
## LANG GERMAN(0) no
                                                         6.922757e-01
## SERVICES(2) rarely
                                                         2.861296e-01
## LANG URDU(0) no
                                                         6.989203e-01
## REGION(3) Atlanta, GA
                                                         2.450166e-01
## LANG HEBREW(0) no
                                                         7.001661e-01
## LIVE PAR(1) yes
                                                         1.378738e-01
## LANG SPANISH(0) no
                                                         4.676080e-01
## LIVE_FAM(0) no
                                                         5.996678e-01
## LANG_HINDI(0) no
                                                         6.985050e-01
## ETHNICITY(2) Caucasian
                                                         1.997508e-01
## WANTKIDS(0) no
                                                         1.656977e-01
## BODY(4) fit
                                                         4.858804e-02
## OCCUP(02) clerical/administrative
                                                         8.679402e-02
## LANG_ITALIAN(1) yes
                                                         1.204319e-02
## LIVE_ALONE(2) no answer
                                                         3.376246e-01
## LANG JAPANESE(0) no
                                                         6.893688e-01
## LANG_PORTUGUESE(0) no
                                                         6.964286e-01
## LIVE KIDS(2) no answer
                                                         3.380399e-01
## LANG_CHINESE(0) no
                                                         6.735880e-01
## BODY(7) large
                                                         1.910299e-02
## LIVE_PARTY(1) yes
                                                         9.551495e-03
## HAVEKIDS(4) no answer
                                                         3.197674e-02
## OCCUP(01) banking/financial services/real estate
                                                         6.229236e-02
## OCCUP(08) hospitality/travel
                                                         1.868771e-02
## OCCUP(14) technical science/engineering
                                                         4.692691e-02
## LIVE_PAR(2) no answer
                                                         3.384551e-01
## LIVE_PETS(2) no answer
                                                         3.384551e-01
## LIVE_ROOM(2) no answer
                                                         3.384551e-01
## LIVE_FAM(2) no answer
                                                         3.384551e-01
## LIVE_PARTY(2) no answer
                                                         3.384551e-01
## OCCUP(13) sales/marketing
                                                         6.478405e-02
                                                         3.280731e-02
## MARSTAT(3) separated
## OCCUP(17) other
                                                         1.565615e-01
## DRINKING(2) occasionally
                                                         7.940199e-01
## ETHNICITY(1) Asian
                                                         1.362126e-01
```

```
## OCCUP(16) food service
                                                         1.578073e-02
## WANTKIDS(3) no answer
                                                         1.715116e-01
## INCOME(2) $25,000 to $34,999y
                                                         1.200166e-01
## SERVICES(4) monthly
                                                         8.803987e-02
## POLITICS(2) middle of the road
                                                         2.350498e-01
## LIVE ALONE(0) no
                                                         4.202658e-01
## POLITICS(3) liberal
                                                        1.229236e-01
## HAVEKIDS(2) yes, at home part-time
                                                        4.318937e-02
## OCCUP(03) computer related/hardware
                                                        5.564784e-02
## OCCUP(04) construction/craftsman
                                                        2.533223e-02
## RELIGION(12) Not religious
                                                         2.740864e-02
## LIVE_ROOM(1) yes
                                                         1.627907e-01
## DRINKING(0) no answer
                                                         2.533223e-02
## RELIGION(06) Christian/Other
                                                         2.117940e-02
## BODY(0) slim
                                                         9.966777e-02
## OCCUP(06) entertainment/media
                                                        4.443522e-02
## OCCUP(12) politics/government/military
                                                        4.194352e-02
## WANTKIDS(1) ves
                                                        3.700166e-01
## INCOME(4) $50,000 to $74,999
                                                        9.219269e-02
## OCCUP(11) medical/health services
                                                        5.730897e-02
## OCCUP(10) manufacturing/distributions
                                                        1.785714e-02
## SERVICES(1) never
                                                         8.388704e-02
## HEIGHT_FT
                                                         5.150332e+00
## BODY(8) voluptous
                                                         3.280731e-02
## EMPSTAT(6) unemployed
                                                         9.136213e-03
## LANG RUSSIAN(1) yes
                                                         6.644518e-03
## SMOKING(0) no answer
                                                         4.401993e-02
## BODY(3) athletic
                                                         2.296512e-01
## ETHNICITY(0) African American
                                                         3.010797e-01
## MARSTAT(4) no answer
                                                         3.571429e-02
## LANG_CHINESE(1) yes
                                                         2.865449e-02
## REGION(0) Los Angeles, CA
                                                         2.769934e-01
## LIVE_ROOM(0) no
                                                         4.987542e-01
## BODY(2) average
                                                         3.313953e-01
## EMPSTAT(1) part-time
                                                         8.970100e-02
## BODY(1) slender
                                                         4.360465e-02
## REGION(1) New York/New Jersey
                                                         2.084718e-01
## EMPSTAT(0) full-time
                                                         6.511628e-01
## RELIGION(10) Spiritual but not religious
                                                         7.142857e-02
## LANG_PORTUGUESE(1) yes
                                                         5.813953e-03
## LANG JAPANESE(1) yes
                                                        1.287375e-02
## INCOME(1) less than $24,999
                                                         9.800664e-02
## INCOME(7) $150,000+
                                                         7.475083e-03
## LIVE_PAR(0) no
                                                         5.236711e-01
## LANG_ENGLISH(1) yes
                                                         9.950166e-01
## RELIGION(00) none/agnostic
                                                         3.737542e-02
## SERVICES(6) more than once a week
                                                         2.906977e-02
## DRINKING(3) often
                                                         9.136213e-03
## LANG_HINDI(1) yes
                                                         3.737542e-03
## BODY(9) no answer
                                                         1.411960e-02
## EMPSTAT(2) homemaker
                                                         7.475083e-03
## LANG_ENGLISH(0) no
                                                         4.983389e-03
## SMOKING(3) often
                                                         5.398671e-02
## MARSTAT(2) widowed
                                                         1.079734e-02
```

```
2.284053e-02
## INCOME(5) $75,000 to $99,999
## RELIGION(08) Jewish
                                                         5.813953e-03
                                                         2.076412e-03
## LANG HEBREW(1) yes
## RELIGION(09) Islam
                                                         4.983389e-03
## BODY(5) thick
                                                         1.146179e-01
## LIVE FAM(1) yes
                                                         6.187708e-02
## EMPSTAT(4) self-employed
                                                         7.682724e-02
## OCCUP(07) executive/management
                                                         3.986711e-02
## LANG_SPANISH(1) yes
                                                         2.346346e-01
## OCCUP(09) legal services
                                                         1.785714e-02
## RELIGION(04) Christian/LDS
                                                         1.661130e-03
## RELIGION(05) Christian/Protestant
                                                         1.370432e-02
## OCCUP(05) education/academic research
                                                         2.906977e-02
## POLITICS(4) very liberal
                                                         2.533223e-02
## WANTKIDS(2) not sure
                                                         2.927741e-01
## OCCUP(15) transportation
                                                         3.156146e-02
## RELIGION(01) Atheist
                                                         2.906977e-03
## POLITICS(0) very conservative
                                                         1.079734e-02
## LANG_URDU(1) yes
                                                         3.322259e-03
## LANG ARABIC(1) yes
                                                         4.152824e-03
                                                         7.184385e-02
## POLITICS(1) conservative
## distance
                                                         3.988864e-01
## LANG_FRENCH(1) yes
                                                         2.491694e-02
## EMPSTAT(7) work at home
                                                         5.813953e-03
## LANG TAGALOG(1) yes
                                                         1.370432e-02
## LANG DUTCH(1) yes
                                                         8.305648e-04
## RELIGION(07) Hindu
                                                         8.305648e-04
## RELIGION(13) Scientology
                                                         4.152824e-04
## EMPSTAT(3) retired
                                                         2.076412e-03
## RELIGION(02) Buddhist/Taoist
                                                         1.578073e-02
## LANG_GERMAN(1) yes
                                                         9.966777e-03
## DRINKING(1) no
                                                         1.715116e-01
## INCOME(6) $100,000 to $149,999
                                                         7.890365e-03
                                                     Means Control M
## AGE
                                                        2.975498e+01
## RELIGION(11) Christian
                                                        3.567276e-01
## LIVE KIDS(0) no
                                                        5.382060e-01
## HAVEKIDS(1) yes, at home full-time
                                                        1.594684e-01
## POLITICS(6) no answer
                                                        3.388704e-01
## SERVICES(5) weekly
                                                        1.632060e-01
## HAVEKIDS(0) no
                                                        6.465947e-01
## LIVE KIDS(1) yes
                                                        1.237542e-01
## OCCUP(18) no answer
                                                        1.274917e-01
## LIVE_PETS(0) no
                                                        5.764120e-01
## MARSTAT(0) single-never married
                                                        7.163621e-01
## SMOKING(1) no
                                                        7.379568e-01
## LANG_ITALIAN(0) no
                                                        6.901993e-01
## SERVICES(0) no answer
                                                        2.682724e-01
## MARSTAT(1) divorced
                                                        2.043189e-01
## EMPSTAT(5) student
                                                        1.204319e-01
## RELIGION(14) Other
                                                        8.305648e-02
## RELIGION(15) no answer
                                                        1.964286e-01
## HEIGHT IN
                                                        5.617940e+00
## LIVE PARTY(0) no
                                                        6.519934e-01
```

##	INCOME(0) no answer	E 057475a_01
		5.257475e-01 1.951827e-01
	POLITICS(5) not political	2.695183e-01
	REGION(2) Chicago, IL BODY(6) a few extra pounds	6.644518e-02
	RELIGION(03) Christian/Catholic	1.602990e-01
	LANG_RUSSIAN(0) no	6.955980e-01
	SMOKING(2) occasionally	1.640365e-01
	LIVE_ALONE(1) yes	2.421096e-01
	SEX(0) female	5.099668e-01
	SEX(1) male	4.900332e-01
	LIVE_PETS(1) yes	8.513289e-02
	INCOME(3) \$35,000 to \$49,999	1.258306e-01
	ETHNICITY(4) Hispanic/Latino	3.629568e-01
	EMPSTAT(8) no answer	3.737542e-02
	SERVICES(3) only on holidays	8.139535e-02
	LANG_ARABIC(0) no	6.980897e-01
	OCCUP(00) artistic/musical/writer	5.980066e-02
	LANG_FRENCH(0) no	6.773256e-01
	LANG DUTCH(0) no	7.014120e-01
	LANG_TAGALOG(0) no	6.885382e-01
	HAVEKIDS(3) yes, but not at home	1.187708e-01
	LANG_FRENCH(2) no answer	2.977575e-01
	LANG_GERMAN(2) no answer	2.977575e-01
##	LANG_ITALIAN(2) no answer	2.977575e-01
##	LANG_SPANISH(2) no answer	2.977575e-01
##	LANG_PORTUGUESE(2) no answer	2.977575e-01
	LANG_DUTCH(2) no answer	2.977575e-01
	LANG_CHINESE(2) no answer	2.977575e-01
	LANG_JAPANESE(2) no answer	2.977575e-01
	LANG_ARABIC(2) no answer	2.977575e-01
	LANG_RUSSIAN(2) no answer	2.977575e-01
	LANG_HEBREW(2) no answer	2.977575e-01
	LANG_HINDI(2) no answer	2.977575e-01
	LANG_TAGALOG(2) no answer	2.977575e-01
	LANG_URDU(2) no answer	2.977575e-01
	LANG_GERMAN(0) no	6.922757e-01
	SERVICES(2) rarely	2.861296e-01
	LANG_URDU(0) no	6.989203e-01
	REGION(3) Atlanta, GA	2.450166e-01
	LANG_HEBREW(0) no LIVE_PAR(1) yes	7.001661e-01 1.378738e-01
	LANG_SPANISH(0) no	4.676080e-01
	LIVE_FAM(0) no	5.996678e-01
	LANG_HINDI(0) no	6.985050e-01
	ETHNICITY(2) Caucasian	1.997508e-01
	WANTKIDS(0) no	1.656977e-01
	BODY(4) fit	4.858804e-02
	OCCUP(02) clerical/administrative	8.679402e-02
	LANG_ITALIAN(1) yes	1.204319e-02
	LIVE_ALONE(2) no answer	3.376246e-01
	LANG_JAPANESE(0) no	6.893688e-01
	LANG_PORTUGUESE(0) no	6.964286e-01
	LIVE_KIDS(2) no answer	3.380399e-01
##	LANG_CHINESE(0) no	6.735880e-01

```
1.910299e-02
## BODY(7) large
## LIVE PARTY(1) yes
                                                       9.551495e-03
## HAVEKIDS(4) no answer
                                                       3.197674e-02
## OCCUP(01) banking/financial services/real estate
                                                       6.229236e-02
## OCCUP(08) hospitality/travel
                                                       1.868771e-02
## OCCUP(14) technical science/engineering
                                                       4.692691e-02
## LIVE PAR(2) no answer
                                                       3.384551e-01
## LIVE PETS(2) no answer
                                                       3.384551e-01
## LIVE ROOM(2) no answer
                                                       3.384551e-01
## LIVE_FAM(2) no answer
                                                       3.384551e-01
## LIVE_PARTY(2) no answer
                                                       3.384551e-01
## OCCUP(13) sales/marketing
                                                       6.478405e-02
## MARSTAT(3) separated
                                                       3.280731e-02
## OCCUP(17) other
                                                       1.565615e-01
## DRINKING(2) occasionally
                                                       7.940199e-01
## ETHNICITY(1) Asian
                                                       1.362126e-01
## OCCUP(16) food service
                                                       1.578073e-02
## WANTKIDS(3) no answer
                                                       1.715116e-01
## INCOME(2) $25,000 to $34,999y
                                                       1.200166e-01
## SERVICES(4) monthly
                                                       8.803987e-02
## POLITICS(2) middle of the road
                                                       2.350498e-01
## LIVE ALONE(0) no
                                                       4.202658e-01
## POLITICS(3) liberal
                                                       1.229236e-01
## HAVEKIDS(2) yes, at home part-time
                                                       4.318937e-02
## OCCUP(03) computer related/hardware
                                                      5.564784e-02
## OCCUP(04) construction/craftsman
                                                       2.533223e-02
## RELIGION(12) Not religious
                                                       2.740864e-02
## LIVE_ROOM(1) yes
                                                       1.627907e-01
## DRINKING(0) no answer
                                                       2.533223e-02
## RELIGION(06) Christian/Other
                                                       2.117940e-02
## BODY(0) slim
                                                       9.966777e-02
## OCCUP(06) entertainment/media
                                                       4.443522e-02
## OCCUP(12) politics/government/military
                                                       4.194352e-02
## WANTKIDS(1) yes
                                                       3.700166e-01
## INCOME(4) $50,000 to $74,999
                                                       9.219269e-02
## OCCUP(11) medical/health services
                                                       5.730897e-02
## OCCUP(10) manufacturing/distributions
                                                       1.785714e-02
## SERVICES(1) never
                                                       8.388704e-02
## HEIGHT FT
                                                       5.150332e+00
## BODY(8) voluptous
                                                       3.280731e-02
## EMPSTAT(6) unemployed
                                                       9.136213e-03
## LANG RUSSIAN(1) yes
                                                       6.644518e-03
## SMOKING(0) no answer
                                                       4.401993e-02
## BODY(3) athletic
                                                       2.296512e-01
## ETHNICITY(0) African American
                                                       3.010797e-01
## MARSTAT(4) no answer
                                                       3.571429e-02
## LANG CHINESE(1) yes
                                                       2.865449e-02
## REGION(0) Los Angeles, CA
                                                       2.769934e-01
## LIVE_ROOM(0) no
                                                       4.987542e-01
## BODY(2) average
                                                       3.313953e-01
## EMPSTAT(1) part-time
                                                       8.970100e-02
## BODY(1) slender
                                                       4.360465e-02
## REGION(1) New York/New Jersey
                                                       2.084718e-01
## EMPSTAT(0) full-time
                                                       6.511628e-01
```

```
## RELIGION(10) Spiritual but not religious
                                                       7.142857e-02
## LANG_PORTUGUESE(1) yes
                                                       5.813953e-03
## LANG JAPANESE(1) yes
                                                       1.287375e-02
## INCOME(1) less than $24,999
                                                       9.800664e-02
## INCOME(7) $150,000+
                                                        7.475083e-03
## LIVE PAR(0) no
                                                       5.236711e-01
## LANG ENGLISH(1) yes
                                                       9.950166e-01
## RELIGION(00) none/agnostic
                                                       3.737542e-02
## SERVICES(6) more than once a week
                                                       2.906977e-02
## DRINKING(3) often
                                                       9.136213e-03
## LANG_HINDI(1) yes
                                                        3.737542e-03
## BODY(9) no answer
                                                        1.411960e-02
## EMPSTAT(2) homemaker
                                                        7.475083e-03
## LANG_ENGLISH(0) no
                                                        4.983389e-03
## SMOKING(3) often
                                                        5.398671e-02
## MARSTAT(2) widowed
                                                        1.079734e-02
## INCOME(5) $75,000 to $99,999
                                                        2.284053e-02
## RELIGION(08) Jewish
                                                        5.813953e-03
## LANG_HEBREW(1) yes
                                                        2.076412e-03
## RELIGION(09) Islam
                                                       4.983389e-03
## BODY(5) thick
                                                        1.146179e-01
## LIVE_FAM(1) yes
                                                        6.187708e-02
## EMPSTAT(4) self-employed
                                                       7.682724e-02
## OCCUP(07) executive/management
                                                        3.986711e-02
## LANG SPANISH(1) yes
                                                        2.346346e-01
## OCCUP(09) legal services
                                                       1.785714e-02
## RELIGION(04) Christian/LDS
                                                       1.661130e-03
## RELIGION(05) Christian/Protestant
                                                       1.370432e-02
## OCCUP(05) education/academic research
                                                       2.906977e-02
## POLITICS(4) very liberal
                                                       2.533223e-02
## WANTKIDS(2) not sure
                                                        2.927741e-01
## OCCUP(15) transportation
                                                        3.156146e-02
## RELIGION(01) Atheist
                                                       2.906977e-03
## POLITICS(0) very conservative
                                                        1.079734e-02
## LANG URDU(1) ves
                                                        3.322259e-03
## LANG_ARABIC(1) yes
                                                        4.152824e-03
## POLITICS(1) conservative
                                                       7.184385e-02
## distance
                                                       3.988864e-01
## LANG FRENCH(1) yes
                                                        2.491694e-02
## EMPSTAT(7) work at home
                                                       5.813953e-03
## LANG TAGALOG(1) yes
                                                        1.370432e-02
## LANG DUTCH(1) yes
                                                       8.305648e-04
## RELIGION(07) Hindu
                                                        8.305648e-04
## RELIGION(13) Scientology
                                                        4.152824e-04
## EMPSTAT(3) retired
                                                        2.076412e-03
## RELIGION(02) Buddhist/Taoist
                                                        1.578073e-02
## LANG_GERMAN(1) yes
                                                        9.966777e-03
## DRINKING(1) no
                                                        1.715116e-01
## INCOME(6) $100,000 to $149,999
                                                       7.890365e-03
                                                    Std. Mean Diff. B4
## AGE
                                                            0.341369826
## RELIGION(11) Christian
                                                           -0.042806487
## LIVE KIDS(0) no
                                                           0.171924312
## HAVEKIDS(1) yes, at home full-time
                                                           -0.235174919
```

	POLITICS(6) no answer	-0.145954835
	SERVICES(5) weekly	-0.015647330
	HAVEKIDS(0) no	0.286108271
	LIVE_KIDS(1) yes	-0.191604638
	OCCUP(18) no answer	-0.158814548
	LIVE_PETS(0) no	0.055219286
	MARSTAT(0) single-never married	0.099935991
	SMOKING(1) no	0.253017173
	LANG_ITALIAN(0) no	-0.005915603
	SERVICES(0) no answer	-0.003754634
	MARSTAT(1) divorced	-0.056847041
	EMPSTAT(5) student	-0.228029521
	RELIGION(14) Other	-0.164895932
	RELIGION(15) no answer	-0.006569327
	HEIGHT_IN	-0.015031856
	LIVE_PARTY(0) no	0.060517891
	INCOME(0) no answer	0.064130218
	POLITICS(5) not political	-0.207503550
	REGION(2) Chicago, IL	-0.040408404
	BODY(6) a few extra pounds	-0.111376298
	RELIGION(03) Christian/Catholic	-0.071609804
	LANG_RUSSIAN(0) no	0.009315264
	SMOKING(2) occasionally	-0.191804075
	LIVE_ALONE(1) yes	0.373447499
	SEX(0) female	-0.089275383
	SEX(1) male	0.089275383
	LIVE_PETS(1) yes	-0.016280802
	INCOME(3) \$35,000 to \$49,999	-0.109410642
	ETHNICITY(4) Hispanic/Latino	-0.386587395
	EMPSTAT(8) no answer	-0.029533291
	SERVICES(3) only on holidays	0.058320479
	LANG_ARABIC(0) no	0.020268223
	OCCUP(00) artistic/musical/writer	-0.011000006
	LANG_FRENCH(0) no	-0.048132217
	LANG_DUTCH(0) no	0.013072777
	LANG_TAGALOG(0) no	-0.030388362
	HAVEKIDS(3) yes, but not at home	-0.118019527
	LANG_FRENCH(2) no answer	-0.016320358
	LANG_GERMAN(2) no answer	-0.016320358
	LANG_ITALIAN(2) no answer	-0.016320358
	LANG_SPANISH(2) no answer	-0.016320358
	LANG_PORTUGUESE(2) no answer	-0.016320358
	LANG_DUTCH(2) no answer	-0.016320358
	LANG_CHINESE(2) no answer	-0.016320358
	LANG_JAPANESE(2) no answer	-0.016320358
	LANG_ARABIC(2) no answer	-0.016320358
	LANG_RUSSIAN(2) no answer	-0.016320358
	LANG_HEBREW(2) no answer	-0.016320358
	LANG_HINDI(2) no answer	-0.016320358
	LANG_TAGALOG(2) no answer	-0.016320358
	LANG_URDU(2) no answer	-0.016320358
	LANG_GERMAN(0) no	-0.006044612
	SERVICES(2) rarely	-0.051500587
##	LANG_URDU(0) no	0.006509634

```
## REGION(3) Atlanta, GA
                                                           -0.055908484
## LANG HEBREW(0) no
                                                            0.018297975
## LIVE PAR(1) yes
                                                           -0.275907437
## LANG_SPANISH(0) no
                                                            0.143074210
## LIVE FAM(0) no
                                                            0.085452746
## LANG_HINDI(0) no
                                                           -0.003288306
## ETHNICITY(2) Caucasian
                                                            0.239469710
## WANTKIDS(0) no
                                                           -0.172191467
## BODY(4) fit
                                                            0.073605628
## OCCUP(02) clerical/administrative
                                                           -0.225185482
## LANG_ITALIAN(1) yes
                                                            0.093494831
## LIVE ALONE(2) no answer
                                                           -0.051219999
## LANG JAPANESE(0) no
                                                           -0.012231025
## LANG_PORTUGUESE(0) no
                                                           -0.003163481
## LIVE_KIDS(2) no answer
                                                           -0.047808118
## LANG_CHINESE(0) no
                                                           -0.101003258
## BODY(7) large
                                                           -0.059367745
## LIVE PARTY(1) ves
                                                           -0.062564746
## HAVEKIDS(4) no answer
                                                            0.008695666
## OCCUP(01) banking/financial services/real estate
                                                            0.231074590
## OCCUP(08) hospitality/travel
                                                           -0.027082396
## OCCUP(14) technical science/engineering
                                                            0.176929200
## LIVE_PAR(2) no answer
                                                           -0.048060967
## LIVE PETS(2) no answer
                                                           -0.048060967
## LIVE ROOM(2) no answer
                                                           -0.048060967
## LIVE FAM(2) no answer
                                                           -0.048060967
## LIVE_PARTY(2) no answer
                                                           -0.048060967
## OCCUP(13) sales/marketing
                                                            0.059517090
## MARSTAT(3) separated
                                                           -0.041477546
## OCCUP(17) other
                                                           -0.192374484
## DRINKING(2) occasionally
                                                            0.073640359
## ETHNICITY(1) Asian
                                                            0.487094315
## OCCUP(16) food service
                                                           -0.112718066
## WANTKIDS(3) no answer
                                                            0.081398577
## INCOME(2) $25,000 to $34,999y
                                                           -0.239535438
## SERVICES(4) monthly
                                                           -0.004887032
## POLITICS(2) middle of the road
                                                            0.171157282
## LIVE ALONE(0) no
                                                           -0.275015690
## POLITICS(3) liberal
                                                            0.223830620
## HAVEKIDS(2) yes, at home part-time
                                                           -0.068945604
## OCCUP(03) computer related/hardware
                                                            0.082339574
## OCCUP(04) construction/craftsman
                                                           -0.096876835
## RELIGION(12) Not religious
                                                            0.035579845
## LIVE_ROOM(1) yes
                                                           -0.020015450
## DRINKING(0) no answer
                                                           -0.032537584
## RELIGION(06) Christian/Other
                                                           -0.034752807
## BODY(0) slim
                                                            0.072271448
## OCCUP(06) entertainment/media
                                                            0.066115252
## OCCUP(12) politics/government/military
                                                           -0.096843161
## WANTKIDS(1) yes
                                                            0.178286177
## INCOME(4) $50,000 to $74,999
                                                           0.124635858
## OCCUP(11) medical/health services
                                                           0.128742335
## OCCUP(10) manufacturing/distributions
                                                           -0.067225243
## SERVICES(1) never
                                                            0.078754509
```

	HEIGHT_FT	0.080230835
	BODY(8) voluptous	-0.088502581
	EMPSTAT(6) unemployed	-0.068700378
	LANG_RUSSIAN(1) yes	0.039097622
	SMOKING(0) no answer	-0.045617214
##	BODY(3) athletic	0.257493079
##	ETHNICITY(0) African American	-0.167707142
##	MARSTAT(4) no answer	-0.067930101
##	LANG_CHINESE(1) yes	0.328610768
##	REGION(0) Los Angeles, CA	-0.100014160
##	LIVE_ROOM(0) no	0.060261957
##	BODY(2) average	-0.085474614
##	EMPSTAT(1) part-time	-0.209794564
##	BODY(1) slender	0.087753505
##	REGION(1) New York/New Jersey	0.213515379
##	EMPSTAT(0) full-time	0.251924291
##	RELIGION(10) Spiritual but not religious	0.128660964
	LANG_PORTUGUESE(1) yes	0.117292273
	LANG_JAPANESE(1) yes	0.116409086
	INCOME(1) less than \$24,999	-0.254823894
	INCOME(7) \$150,000+	0.433004071
	LIVE_PAR(0) no	0.235995790
	LANG_ENGLISH(1) yes	0.025647705
	RELIGION(00) none/agnostic	0.096861606
	SERVICES(6) more than once a week	-0.033766756
	DRINKING(3) often	-0.044413435
	LANG_HINDI(1) yes	0.147029106
	BODY(9) no answer	-0.019296979
	EMPSTAT(2) homemaker	-0.056602313
##	LANG_ENGLISH(0) no	-0.025647705
	SMOKING(3) often	-0.136636487
	MARSTAT(2) widowed	-0.020627742
	INCOME(5) \$75,000 to \$99,999	0.316945919
	RELIGION(08) Jewish	0.185679632
	LANG_HEBREW(1) yes	-0.020232948
	RELIGION(09) Islam	0.031780260
	BODY(5) thick	-0.218348867
	LIVE_FAM(1) yes	-0.079388410
	EMPSTAT(4) self-employed	0.126925558
	OCCUP(07) executive/management	0.191900737
	LANG_SPANISH(1) yes	-0.150845860
	OCCUP(09) legal services	0.102902140
	RELIGION(04) Christian/LDS	-0.019511741
	RELIGION(05) Christian/Protestant	0.078400303
	OCCUP(05) education/academic research	0.301501748
	POLITICS(4) very liberal	0.001001740
	WANTKIDS(2) not sure	-0.115901748
	OCCUP(15) transportation	-0.126005085
	RELIGION(01) Atheist	0.120003083
	POLITICS(0) very conservative	-0.042987230
	LANG_URDU(1) yes	0.077797198
	LANG_ARABIC(1) yes	-0.028643524
	POLITICS(1) conservative	0.008139445
	distance	1.305111830
##	ATP (ATICE	1.505111650

```
## LANG FRENCH(1) yes
                                                            0.192238646
## EMPSTAT(7) work at home
                                                           -0.027081041
                                                            0.185234207
## LANG TAGALOG(1) yes
## LANG_DUTCH(1) yes
                                                            0.051383690
## RELIGION(07) Hindu
                                                            0.201787164
## RELIGION(13) Scientology
                                                           -0.006205482
## EMPSTAT(3) retired
                                                           -0.013887423
## RELIGION(02) Buddhist/Taoist
                                                            0.058794193
## LANG_GERMAN(1) yes
                                                            0.103213869
## DRINKING(1) no
                                                           -0.054231563
## INCOME(6) $100,000 to $149,999
                                                            0.420114425
                                                     Std. Mean Diff. M
## AGE
                                                          4.260050e-02
## RELIGION(11) Christian
                                                          7.715565e-02
## LIVE_KIDS(0) no
                                                         -7.247102e-02
## HAVEKIDS(1) yes, at home full-time
                                                          8.734134e-02
## POLITICS(6) no answer
                                                         -6.668021e-02
## SERVICES(5) weekly
                                                          8.428057e-02
## HAVEKIDS(0) no
                                                         -6.081195e-02
## LIVE KIDS(1) yes
                                                          7.944950e-02
## OCCUP(18) no answer
                                                         -7.719861e-02
## LIVE PETS(0) no
                                                         -5.126666e-02
## MARSTAT(0) single-never married
                                                         -5.435595e-02
## SMOKING(1) no
                                                          5.382902e-02
## LANG ITALIAN(0) no
                                                         -5.119057e-02
## SERVICES(0) no answer
                                                         -5.342637e-02
## MARSTAT(1) divorced
                                                          5.252788e-02
## EMPSTAT(5) student
                                                          6.507410e-02
## RELIGION(14) Other
                                                         -7.674598e-02
## RELIGION(15) no answer
                                                         -5.121828e-02
## HEIGHT IN
                                                          3.942671e-02
## LIVE_PARTY(0) no
                                                         -4.010384e-02
## INCOME(0) no answer
                                                         -3.825674e-02
## POLITICS(5) not political
                                                          4.819833e-02
## REGION(2) Chicago, IL
                                                          4.211698e-02
## BODY(6) a few extra pounds
                                                         7.169854e-02
## RELIGION(03) Christian/Catholic
                                                          4.867256e-02
## LANG_RUSSIAN(0) no
                                                         -3.880691e-02
## SMOKING(2) occasionally
                                                         -4.710086e-02
## LIVE_ALONE(1) yes
                                                         -3.974826e-02
## SEX(0) female
                                                          3.322919e-02
## SEX(1) male
                                                         -3.322919e-02
## LIVE_PETS(1) yes
                                                          5.654568e-02
## INCOME(3) $35,000 to $49,999
                                                          4.758129e-02
## ETHNICITY(4) Hispanic/Latino
                                                          3.195460e-02
## EMPSTAT(8) no answer
                                                         -7.881784e-02
## SERVICES(3) only on holidays
                                                          5.467413e-02
## LANG ARABIC(0) no
                                                         -3.075586e-02
## OCCUP(00) artistic/musical/writer
                                                         5.954694e-02
## LANG_FRENCH(0) no
                                                         -2.931409e-02
## LANG_DUTCH(0) no
                                                         -2.994571e-02
## LANG_TAGALOG(0) no
                                                         -2.959314e-02
## HAVEKIDS(3) yes, but not at home
                                                         4.107658e-02
## LANG FRENCH(2) no answer
                                                          2.906154e-02
```

```
## LANG GERMAN(2) no answer
                                                          2.906154e-02
## LANG_ITALIAN(2) no answer
                                                          2.906154e-02
## LANG SPANISH(2) no answer
                                                         2.906154e-02
## LANG_PORTUGUESE(2) no answer
                                                         2.906154e-02
## LANG DUTCH(2) no answer
                                                          2.906154e-02
## LANG CHINESE(2) no answer
                                                         2.906154e-02
## LANG JAPANESE(2) no answer
                                                         2.906154e-02
## LANG ARABIC(2) no answer
                                                         2.906154e-02
## LANG RUSSIAN(2) no answer
                                                          2.906154e-02
## LANG_HEBREW(2) no answer
                                                         2.906154e-02
## LANG_HINDI(2) no answer
                                                          2.906154e-02
## LANG TAGALOG(2) no answer
                                                          2.906154e-02
## LANG URDU(2) no answer
                                                         2.906154e-02
## LANG_GERMAN(O) no
                                                        -2.789233e-02
## SERVICES(2) rarely
                                                        -2.756600e-02
## LANG_URDU(0) no
                                                        -2.715878e-02
## REGION(3) Atlanta, GA
                                                        -2.800110e-02
## LANG HEBREW(0) no
                                                        -2.537819e-02
## LIVE PAR(1) yes
                                                        -3.372681e-02
## LANG SPANISH(0) no
                                                        -2.330477e-02
## LIVE FAM(0) no
                                                        -2.288451e-02
## LANG HINDI(0) no
                                                        -2.443332e-02
## ETHNICITY(2) Caucasian
                                                        -2.804467e-02
## WANTKIDS(0) no
                                                        -3.015695e-02
## BODY(4) fit
                                                        -5.021898e-02
## OCCUP(02) clerical/administrative
                                                        -3.835196e-02
## LANG_ITALIAN(1) yes
                                                         9.517958e-02
## LIVE_ALONE(2) no answer
                                                         2.195404e-02
## LANG_JAPANESE(0) no
                                                        -2.243547e-02
## LANG PORTUGUESE(0) no
                                                        -2.257952e-02
## LIVE_KIDS(2) no answer
                                                         2.106953e-02
## LANG_CHINESE(0) no
                                                        -2.037001e-02
## BODY(7) large
                                                        -6.977647e-02
## LIVE_PARTY(1) yes
                                                         9.820186e-02
## HAVEKIDS(4) no answer
                                                        -5.428894e-02
## OCCUP(01) banking/financial services/real estate
                                                        -3.952030e-02
## OCCUP(08) hospitality/travel
                                                         7.053257e-02
## OCCUP(14) technical science/engineering
                                                         4.516451e-02
## LIVE PAR(2) no answer
                                                          2.018558e-02
## LIVE_PETS(2) no answer
                                                          2.018558e-02
## LIVE ROOM(2) no answer
                                                          2.018558e-02
## LIVE FAM(2) no answer
                                                         2.018558e-02
## LIVE PARTY(2) no answer
                                                         2.018558e-02
## OCCUP(13) sales/marketing
                                                        -3.880443e-02
## MARSTAT(3) separated
                                                         4.895770e-02
## OCCUP(17) other
                                                          2.285622e-02
## DRINKING(2) occasionally
                                                         1.951052e-02
## ETHNICITY(1) Asian
                                                        -2.300303e-02
## OCCUP(16) food service
                                                        -5.998001e-02
## WANTKIDS(3) no answer
                                                         1.872848e-02
## INCOME(2) $25,000 to $34,999y
                                                         2.172374e-02
## SERVICES(4) monthly
                                                        -2.491523e-02
## POLITICS(2) middle of the road
                                                         1.664930e-02
## LIVE ALONE(0) no
                                                          1.346130e-02
```

```
## POLITICS(3) liberal
                                                          2.023612e-02
## HAVEKIDS(2) yes, at home part-time
                                                        -3.268602e-02
## OCCUP(03) computer related/hardware
                                                         2.717338e-02
## OCCUP(04) construction/craftsman
                                                         3.964330e-02
## RELIGION(12) Not religious
                                                        -3.815275e-02
## LIVE ROOM(1) yes
                                                        -1.574852e-02
## DRINKING(0) no answer
                                                        -3.700041e-02
## RELIGION(06) Christian/Other
                                                        -4.037971e-02
## BODY(0) slim
                                                         1.940854e-02
## OCCUP(06) entertainment/media
                                                        -2.619951e-02
## OCCUP(12) politics/government/military
                                                         2.693140e-02
## WANTKIDS(1) yes
                                                         1.118180e-02
## INCOME(4) $50,000 to $74,999
                                                        -1.866130e-02
## OCCUP(11) medical/health services
                                                         2.144020e-02
## OCCUP(10) manufacturing/distributions
                                                         3.762976e-02
## SERVICES(1) never
                                                        -1.797640e-02
## HEIGHT_FT
                                                        -4.043487e-02
## BODY(8) voluptous
                                                         2.564451e-02
## EMPSTAT(6) unemployed
                                                        -4.801159e-02
## LANG RUSSIAN(1) yes
                                                         5.622793e-02
## SMOKING(0) no answer
                                                        -2.226830e-02
## BODY(3) athletic
                                                        -9.873371e-03
## ETHNICITY(0) African American
                                                         8.147633e-03
## MARSTAT(4) no answer
                                                         -2.014013e-02
## LANG CHINESE(1) yes
                                                        -2.240283e-02
## REGION(0) Los Angeles, CA
                                                        -8.351802e-03
## LIVE_ROOM(0) no
                                                        -7.475106e-03
## BODY(2) average
                                                         7.057902e-03
## EMPSTAT(1) part-time
                                                        -1.162634e-02
## BODY(1) slender
                                                        -1.626853e-02
## REGION(1) New York/New Jersey
                                                         -7.156237e-03
## EMPSTAT(0) full-time
                                                        -6.099375e-03
## RELIGION(10) Spiritual but not religious
                                                         1.128750e-02
## LANG_PORTUGUESE(1) yes
                                                        -3.823596e-02
## LANG JAPANESE(1) yes
                                                         -2.578711e-02
## INCOME(1) less than $24,999
                                                         8.380411e-03
## INCOME(7) $150,000+
                                                        -2.892784e-02
## LIVE_PAR(0) no
                                                         4.157486e-03
## LANG ENGLISH(1) yes
                                                          2.948737e-02
## RELIGION(00) none/agnostic
                                                        -1.094692e-02
## SERVICES(6) more than once a week
                                                         1.235944e-02
## DRINKING(3) often
                                                        -2.182345e-02
## LANG HINDI(1) yes
                                                         -3.402778e-02
## BODY(9) no answer
                                                        -1.759909e-02
## EMPSTAT(2) homemaker
                                                         2.410654e-02
## LANG_ENGLISH(0) no
                                                        -2.948737e-02
## SMOKING(3) often
                                                         -7.350408e-03
## MARSTAT(2) widowed
                                                        -1.607320e-02
## INCOME(5) $75,000 to $99,999
                                                         1.111905e-02
## RELIGION(08) Jewish
                                                         2.184912e-02
## LANG_HEBREW(1) yes
                                                        -3.649204e-02
## RELIGION(09) Islam
                                                        -2.358989e-02
## BODY(5) thick
                                                        -5.214490e-03
## LIVE FAM(1) yes
                                                         6.894595e-03
```

```
6.237411e-03
## EMPSTAT(4) self-employed
## OCCUP(07) executive/management
                                                          -8.490445e-03
## LANG SPANISH(1) yes
                                                          -3.919883e-03
## OCCUP(09) legal services
                                                           9.407440e-03
## RELIGION(04) Christian/LDS
                                                          -3.059314e-02
## RELIGION(05) Christian/Protestant
                                                         -1.071599e-02
## OCCUP(05) education/academic research
                                                         -7.415663e-03
## POLITICS(4) very liberal
                                                         -7.928660e-03
## WANTKIDS(2) not sure
                                                          -2.737911e-03
## OCCUP(15) transportation
                                                           4.750714e-03
## RELIGION(01) Atheist
                                                           1.542712e-02
## POLITICS(0) very conservative
                                                          -8.036602e-03
## LANG_URDU(1) yes
                                                          -1.443376e-02
## LANG_ARABIC(1) yes
                                                           1.291533e-02
## POLITICS(1) conservative
                                                           3.216386e-03
## distance
                                                           3.171153e-04
## LANG_FRENCH(1) yes
                                                           2.664252e-03
## EMPSTAT(7) work at home
                                                           5.462279e-03
## LANG_TAGALOG(1) yes
                                                           3.571998e-03
## LANG DUTCH(1) yes
                                                           1.441575e-02
## RELIGION(07) Hindu
                                                          -1.441575e-02
## RELIGION(13) Scientology
                                                           2.038271e-02
                                                           9.123009e-03
## EMPSTAT(3) retired
## RELIGION(02) Buddhist/Taoist
                                                          -3.332223e-03
## LANG GERMAN(1) yes
                                                          -4.180625e-03
## DRINKING(1) no
                                                           2.775558e-17
## INCOME(6) $100,000 to $149,999
                                                           0.000000e+00
                                                     Var. Ratio B4 Var. Ratio M
## AGE
                                                          0.6756963
                                                                       0.6580395
## RELIGION(11) Christian
                                                                 NA
                                                                              NA
## LIVE_KIDS(0) no
                                                                 NΑ
                                                                               NΑ
## HAVEKIDS(1) yes, at home full-time
                                                                 NA
                                                                               NA
## POLITICS(6) no answer
                                                                 NA
                                                                               NA
## SERVICES(5) weekly
                                                                 NA
                                                                              NΑ
## HAVEKIDS(0) no
                                                                 NA
                                                                               NA
## LIVE KIDS(1) yes
                                                                 NA
                                                                              NA
## OCCUP(18) no answer
                                                                 NA
                                                                              NA
## LIVE PETS(0) no
                                                                 NΔ
                                                                              NΔ
## MARSTAT(0) single-never married
                                                                 NA
                                                                               NA
## SMOKING(1) no
                                                                 NΔ
                                                                              NA
## LANG ITALIAN(0) no
                                                                 NΑ
                                                                              NΑ
## SERVICES(0) no answer
                                                                 NΑ
                                                                              NA
## MARSTAT(1) divorced
                                                                               MΔ
## EMPSTAT(5) student
                                                                 NΑ
                                                                               NΑ
## RELIGION(14) Other
                                                                 NA
                                                                               NA
## RELIGION(15) no answer
                                                                 NA
                                                                               NA
## HEIGHT IN
                                                          1.0688186
                                                                       0.9595655
## LIVE_PARTY(0) no
                                                                 NA
                                                                               NA
## INCOME(0) no answer
                                                                 NA
                                                                              NA
## POLITICS(5) not political
                                                                 NA
                                                                               NA
## REGION(2) Chicago, IL
                                                                 NA
                                                                               NA
## BODY(6) a few extra pounds
                                                                 NΑ
                                                                              NA
## RELIGION(03) Christian/Catholic
                                                                 NA
                                                                              NA
## LANG RUSSIAN(0) no
                                                                 NA
                                                                               NA
```

##	SMOKING(2) occasionally	NA	NA
	LIVE_ALONE(1) yes	NA	NA
##	SEX(0) female	NA	NA
	SEX(1) male	NA	NA
	LIVE_PETS(1) yes	NA	NA
	INCOME(3) \$35,000 to \$49,999	NA	NA
##	ETHNICITY(4) Hispanic/Latino	NA	NA
##	EMPSTAT(8) no answer	NA	NA
##	SERVICES(3) only on holidays	NA	NA
##	LANG_ARABIC(0) no	NA	NA
	OCCUP(00) artistic/musical/writer	NA	NA
##	LANG_FRENCH(0) no	NA	NA
##	LANG_DUTCH(0) no	NA	NA
	LANG_TAGALOG(0) no	NA	NA
##	HAVEKIDS(3) yes, but not at home	NA	NA
##	LANG_FRENCH(2) no answer	NA	NA
##	LANG_GERMAN(2) no answer	NA	NA
##	LANG_ITALIAN(2) no answer	NA	NA
	LANG_SPANISH(2) no answer	NA	NA
##	LANG_PORTUGUESE(2) no answer	NA	NA
##	LANG_DUTCH(2) no answer	NA	NA
##	LANG_CHINESE(2) no answer	NA	NA
##	LANG_JAPANESE(2) no answer	NA	NA
##	LANG_ARABIC(2) no answer	NA	NA
##	LANG_RUSSIAN(2) no answer	NA	NA
##	LANG_HEBREW(2) no answer	NA	NA
##	LANG_HINDI(2) no answer	NA	NA
##	LANG_TAGALOG(2) no answer	NA	NA
##	LANG_URDU(2) no answer	NA	NA
	LANG_GERMAN(0) no	NA	NA
##	SERVICES(2) rarely	NA	NA
##	LANG_URDU(0) no	NA	NA
##	REGION(3) Atlanta, GA	NA	NA
##	LANG_HEBREW(0) no	NA	NA
##	LIVE_PAR(1) yes	NA	NA
	LANG_SPANISH(0) no	NA	NA
	LIVE_FAM(0) no	NA	NA
##	LANG_HINDI(0) no	NA	NA
##	ETHNICITY(2) Caucasian	NA	NA
##	WANTKIDS(0) no	NA	NA
	BODY(4) fit	NA	NA
	OCCUP(02) clerical/administrative	NA	NA
	LANG_ITALIAN(1) yes	NA	NA
	LIVE_ALONE(2) no answer	NA	NA
	LANG_JAPANESE(0) no	NA	NA
	LANG_PORTUGUESE(0) no	NA	NA
	LIVE_KIDS(2) no answer	NA	NA
	LANG_CHINESE(0) no	NA	NA
	BODY(7) large	NA	NA
	LIVE_PARTY(1) yes	NA	NA
	HAVEKIDS(4) no answer	NA	NA
	OCCUP(01) banking/financial services/real estate	NA	NA
	OCCUP(08) hospitality/travel	NA	NA
##	OCCUP(14) technical science/engineering	NA	NA

	LIVE_PAR(2) no answer	NA	NA
	LIVE_PETS(2) no answer	NA	NA
	LIVE_ROOM(2) no answer	NA	NA
	LIVE_FAM(2) no answer	NA	NA
	LIVE_PARTY(2) no answer	NA	NA
	OCCUP(13) sales/marketing	NA	NA
	MARSTAT(3) separated	NA	NA
	OCCUP(17) other	NA	NA
	DRINKING(2) occasionally	NA	NA
	ETHNICITY(1) Asian	NA	NA
	OCCUP(16) food service	NA	NA
	WANTKIDS(3) no answer	NA	NA
	INCOME(2) \$25,000 to \$34,999y	NA	NA
	SERVICES(4) monthly	NA	NA
	POLITICS(2) middle of the road	NA	NA
	LIVE_ALONE(0) no	NA	NA
	POLITICS(3) liberal	NA	NA
	HAVEKIDS(2) yes, at home part-time	NA	NA
	OCCUP(03) computer related/hardware	NA	NA
	OCCUP(04) construction/craftsman	NA	NA
	RELIGION(12) Not religious	NA	NA
	LIVE_ROOM(1) yes	NA	NA
	DRINKING(0) no answer	NA	NA
	RELIGION(06) Christian/Other	NA	NA
	BODY(0) slim	NA	NA
	OCCUP(06) entertainment/media	NA	NA
	OCCUP(12) politics/government/military	NA	NA
	WANTKIDS(1) yes	NA	NA
	INCOME(4) \$50,000 to \$74,999	NA	NA
	OCCUP(11) medical/health services	NA	NA
	OCCUP(10) manufacturing/distributions	NA	NA
	SERVICES(1) never	NA	NA
	HEIGHT_FT	1.1141004	0.8973342
	BODY(8) voluptous	NA	NA
	EMPSTAT(6) unemployed	NA	NA
	LANG_RUSSIAN(1) yes	NA	NA
	SMOKING(0) no answer	NA	NA
	BODY(3) athletic	NA	NA
	ETHNICITY(0) African American	NA	NA
	MARSTAT(4) no answer	NA	NA
	LANG_CHINESE(1) yes	NA	NA
	REGION(0) Los Angeles, CA	NA	NA
	LIVE_ROOM(0) no	NA	NA
	BODY(2) average	NA	NA
	EMPSTAT(1) part-time	NA	NA
	BODY(1) slender	NA	NA
	REGION(1) New York/New Jersey	NA	NA
	EMPSTAT(0) full-time	NA	NA
###	RELIGION(10) Spiritual but not religious	NA	NA
		BT A	3.7.6
##	LANG_PORTUGUESE(1) yes	NA	NA
## ##	LANG_PORTUGUESE(1) yes LANG_JAPANESE(1) yes	NA	NA
## ## ##	LANG_PORTUGUESE(1) yes LANG_JAPANESE(1) yes INCOME(1) less than \$24,999	NA NA	NA NA
## ## ## ##	LANG_PORTUGUESE(1) yes LANG_JAPANESE(1) yes	NA	NA

	LANG_ENGLISH(1) yes	NA	
	RELIGION(00) none/agnostic	NA	
	SERVICES(6) more than once a week	NA	
	DRINKING(3) often	NA	
	LANG_HINDI(1) yes	NA	
	BODY(9) no answer	NA	
	EMPSTAT(2) homemaker	NA	
	LANG_ENGLISH(0) no	NA	
	SMOKING(3) often	NA	
	MARSTAT(2) widowed	NA	
	INCOME(5) \$75,000 to \$99,999	NA	
	RELIGION(08) Jewish	NA	
	LANG_HEBREW(1) yes	NA	
	RELIGION(09) Islam	NA	
	BODY(5) thick	NA	
	LIVE_FAM(1) yes	NA	
	EMPSTAT(4) self-employed	NA	
	OCCUP(07) executive/management	NA	
	LANG_SPANISH(1) yes	NA	
	OCCUP(09) legal services	NA	
	RELIGION(04) Christian/LDS	NA	
	RELIGION(05) Christian/Protestant	NA	
	OCCUP(05) education/academic research	NA	
	POLITICS(4) very liberal	NA	
	WANTKIDS(2) not sure	NA	
	OCCUP(15) transportation	NA	
	RELIGION(01) Atheist	NA	
	POLITICS(0) very conservative	NA	
	LANG_URDU(1) yes	NA	. NA
	LANG_ARABIC(1) yes	NA	
	POLITICS(1) conservative	NA	
	distance	0.7477346	1.0016627
	LANG_FRENCH(1) yes	NA	
	EMPSTAT(7) work at home	NA	. NA
	LANG_TAGALOG(1) yes	NA	
	LANG_DUTCH(1) yes	NA	
	RELIGION(07) Hindu	NA	
	RELIGION(13) Scientology	NA	
	EMPSTAT(3) retired	NA	
	RELIGION(02) Buddhist/Taoist	NA	
	LANG_GERMAN(1) yes	NA	
	DRINKING(1) no	NA	
	INCOME(6) \$100,000 to \$149,999	NA	
##		eCDF Mean B4	
	AGE	0.0863778797	
	RELIGION(11) Christian	0.0205057377	
	LIVE_KIDS(0) no	0.0857108310	
	HAVEKIDS(1) yes, at home full-time	0.0861004432	
	POLITICS(6) no answer	0.0690841812	
	SERVICES(5) weekly	0.0057825254	
	HAVEKIDS(0) no	0.1367675340	
	LIVE_KIDS(1) yes	0.0630955740	
	OCCUP(18) no answer	0.0529682975	
##	LIVE_PETS(0) no	0.0272853247	0.0272853247

	MARSTAT(0) single-never married		0.0450474636
	SMOKING(1) no		0.1112632934
	LANG_ITALIAN(O) no		0.0027354418
	SERVICES(0) no answer		0.0016635287
	MARSTAT(1) divorced		0.0229209011
	EMPSTAT(5) student		0.0742158336
	RELIGION(14) Other		0.0455059296
	RELIGION(15) no answer		0.0026099695
	HEIGHT_IN		0.0275295520
	LIVE_PARTY(0) no		0.0288269796
	INCOME(0) no answer		0.0320225668
	POLITICS(5) not political		0.0822422274
	REGION(2) Chicago, IL		0.0179295954
	BODY(6) a few extra pounds	0.0277392324	0.0277392324
##	RELIGION(03) Christian/Catholic	0.0262724291	0.0262724291
	LANG_RUSSIAN(0) no	0.0042864532	0.0042864532
##	SMOKING(2) occasionally	0.0710267239	0.0710267239
##	LIVE_ALONE(1) yes	0.1599700882	0.1599700882
##	SEX(0) female	0.0446288225	0.0446288225
##	SEX(1) male	0.0446288225	0.0446288225
##	LIVE_PETS(1) yes	0.0045436356	0.0045436356
##	INCOME(3) \$35,000 to \$49,999	0.0362869484	0.0362869484
##	ETHNICITY(4) Hispanic/Latino	0.1858915304	0.1858915304
##	EMPSTAT(8) no answer	0.0056018740	0.0056018740
##	SERVICES(3) only on holidays	0.0159472277	0.0159472277
##	LANG_ARABIC(0) no	0.0093048686	0.0093048686
##	OCCUP(00) artistic/musical/writer	0.0026082901	0.0026082901
##	LANG_FRENCH(0) no	0.0225017801	0.0225017801
##	LANG_DUTCH(0) no	0.0059826095	0.0059826095
##	LANG_TAGALOG(0) no	0.0140725792	0.0140725792
##	HAVEKIDS(3) yes, but not at home	0.0381815094	0.0381815094
	LANG_FRENCH(2) no answer	0.0074628477	0.0074628477
##	LANG_GERMAN(2) no answer	0.0074628477	0.0074628477
	LANG_ITALIAN(2) no answer	0.0074628477	0.0074628477
	LANG_SPANISH(2) no answer	0.0074628477	0.0074628477
	LANG_PORTUGUESE(2) no answer	0.0074628477	0.0074628477
	LANG_DUTCH(2) no answer	0.0074628477	0.0074628477
##	LANG_CHINESE(2) no answer	0.0074628477	0.0074628477
##	LANG_JAPANESE(2) no answer	0.0074628477	0.0074628477
	LANG_ARABIC(2) no answer	0.0074628477	0.0074628477
##	LANG_RUSSIAN(2) no answer	0.0074628477	0.0074628477
	LANG_HEBREW(2) no answer	0.0074628477	0.0074628477
	LANG_HINDI(2) no answer	0.0074628477	0.0074628477
	LANG_TAGALOG(2) no answer	0.0074628477	0.0074628477
	LANG_URDU(2) no answer	0.0074628477	0.0074628477
	LANG_GERMAN(0) no	0.0027899012	0.0027899012
	SERVICES(2) rarely	0.0232757264	0.0232757264
	LANG_URDU(0) no		0.0029861467
	REGION(3) Atlanta, GA		0.0240460740
	LANG_HEBREW(0) no		0.0083838582
	LIVE_PAR(1) yes		0.0951238986
	LANG_SPANISH(0) no		0.0713868273
	LIVE_FAM(0) no		0.0418689099
	LANG_HINDI(0) no		0.0015090273
	-		· · · ·

```
## ETHNICITY(2) Caucasian
                                                    0.0957431036 0.0957431036
## WANTKIDS(0) no
                                                    0.0640223422 0.0640223422
## BODY(4) fit
                                                    0.0158255939 0.0158255939
## OCCUP(02) clerical/administrative
                                                    0.0633971395 0.0633971395
## LANG ITALIAN(1) yes
                                                    0.0101982895 0.0101982895
## LIVE ALONE(2) no answer
                                                    0.0242219273 0.0242219273
## LANG JAPANESE(0) no
                                                    0.0056599319 0.0056599319
## LANG PORTUGUESE(0) no
                                                    0.0014545680 0.0014545680
## LIVE KIDS(2) no answer
                                                    0.0226152571 0.0226152571
## LANG_CHINESE(0) no
                                                    0.0473604258 0.0473604258
## BODY(7) large
                                                    0.0081266758 0.0081266758
## LIVE PARTY(1) ves
                                                    0.0060852905 0.0060852905
## HAVEKIDS(4) no answer
                                                    0.0015298994 0.0015298994
## OCCUP(01) banking/financial services/real estate 0.0558474448 0.0558474448
## OCCUP(08) hospitality/travel
                                                    0.0036674881 0.0036674881
## OCCUP(14) technical science/engineering
                                                    0.0374173993 0.0374173993
## LIVE_PAR(2) no answer
                                                    0.0227416891 0.0227416891
## LIVE PETS(2) no answer
                                                    0.0227416891 0.0227416891
## LIVE_ROOM(2) no answer
                                                    0.0227416891 0.0227416891
## LIVE FAM(2) no answer
                                                    0.0227416891 0.0227416891
## LIVE PARTY(2) no answer
                                                    0.0227416891 0.0227416891
## OCCUP(13) sales/marketing
                                                    0.0146498001 0.0146498001
## MARSTAT(3) separated
                                                    0.0073884759 0.0073884759
## OCCUP(17) other
                                                    0.0699063491 0.0699063491
## DRINKING(2) occasionally
                                                    0.0297813374 0.0297813374
## ETHNICITY(1) Asian
                                                    0.1670802697 0.1670802697
## OCCUP(16) food service
                                                    0.0140476286 0.0140476286
## WANTKIDS(3) no answer
                                                    0.0306836349 0.0306836349
## INCOME(2) $25,000 to $34,999y
                                                    0.0778444565 0.0778444565
## SERVICES(4) monthly
                                                    0.0013847545 0.0013847545
## POLITICS(2) middle of the road
                                                    0.0725758160 0.0725758160
## LIVE_ALONE(0) no
                                                    0.1357481609 0.1357481609
## POLITICS(3) liberal
                                                    0.0734946673 0.0734946673
## HAVEKIDS(2) yes, at home part-time
                                                  0.0140154808 0.0140154808
## OCCUP(03) computer related/hardware
                                                  0.0188755563 0.0188755563
## OCCUP(04) construction/craftsman
                                                   0.0152224628 0.0152224628
## RELIGION(12) Not religious
                                                    0.0058091553 0.0058091553
## LIVE_ROOM(1) yes
                                                    0.0073891957 0.0073891957
## DRINKING(0) no answer
                                                    0.0051126996 0.0051126996
                                                    0.0050037810 0.0050037810
## RELIGION(06) Christian/Other
## BODY(0) slim
                                                    0.0216493836 0.0216493836
## OCCUP(06) entertainment/media
                                                    0.0136237095 0.0136237095
## OCCUP(12) politics/government/military
                                                    0.0194131923 0.0194131923
## WANTKIDS(1) yes
                                                    0.0860781316 0.0860781316
## INCOME(4) $50,000 to $74,999
                                                    0.0360568757 0.0360568757
## OCCUP(11) medical/health services
                                                    0.0299238433 0.0299238433
## OCCUP(10) manufacturing/distributions
                                                    0.0089027812 0.0089027812
## SERVICES(1) never
                                                    0.0218321942 0.0218321942
## HEIGHT_FT
                                                    0.0076852433 0.0287900336
## BODY(8) voluptous
                                                    0.0157651368 0.0157651368
## EMPSTAT(6) unemployed
                                                    0.0065365592 0.0065365592
## LANG RUSSIAN(1) yes
                                                    0.0031763945 0.0031763945
## SMOKING(0) no answer
                                                    0.0093578885 0.0093578885
## BODY(3) athletic
                                                    0.1083037766 0.1083037766
```

```
## ETHNICITY(0) African American
                                                    0.0769318428 0.0769318428
## MARSTAT(4) no answer
                                                    0.0126062557 0.0126062557
## LANG CHINESE(1) yes
                                                    0.0548232735 0.0548232735
## REGION(0) Los Angeles, CA
                                                    0.0447576536 0.0447576536
## LIVE ROOM(0) no
                                                    0.0301308847 0.0301308847
## BODY(2) average
                                                    0.0402341703 0.0402341703
## EMPSTAT(1) part-time
                                                    0.0599494080 0.0599494080
                                                    0.0179204788 0.0179204788
## BODY(1) slender
## REGION(1) New York/New Jersey
                                                    0.0867333230 0.0867333230
## EMPSTAT(0) full-time
                                                    0.1200677119 0.1200677119
## RELIGION(10) Spiritual but not religious
                                                    0.0331352645 0.0331352645
## LANG_PORTUGUESE(1) yes
                                                    0.0089174157 0.0089174157
## LANG_JAPANESE(1) yes
                                                    0.0131227796 0.0131227796
## INCOME(1) less than $24,999
                                                    0.0757651656 0.0757651656
## INCOME(7) $150,000+
                                                    0.0372967251 0.0372967251
## LIVE_PAR(0) no
                                                    0.1178655877 0.1178655877
## LANG_ENGLISH(1) yes
                                                    0.0018060346 0.0018060346
## RELIGION(00) none/agnostic
                                                    0.0183727072 0.0183727072
## SERVICES(6) more than once a week
                                                    0.0056728870 0.0056728870
## DRINKING(3) often
                                                    0.0042257562 0.0042257562
## LANG_HINDI(1) yes
                                                    0.0089718750 0.0089718750
## BODY(9) no answer
                                                    0.0022767359 0.0022767359
## EMPSTAT(2) homemaker
                                                    0.0048754297 0.0048754297
## LANG ENGLISH(0) no
                                                    0.0018060346 0.0018060346
## SMOKING(3) often
                                                    0.0308786809 0.0308786809
## MARSTAT(2) widowed
                                                    0.0021318309 0.0021318309
## INCOME(5) $75,000 to $99,999
                                                    0.0473501097 0.0473501097
## RELIGION(08) Jewish
                                                    0.0141167224 0.0141167224
## LANG_HEBREW(1) yes
                                                    0.0009210105 0.0009210105
## RELIGION(09) Islam
                                                    0.0022378707 0.0022378707
## BODY(5) thick
                                                    0.0695572816 0.0695572816
## LIVE_FAM(1) yes
                                                    0.0191272208 0.0191272208
## EMPSTAT(4) self-employed
                                                    0.0338024513 0.0338024513
## OCCUP(07) executive/management
                                                    0.0375447910 0.0375447910
## LANG SPANISH(1) ves
                                                    0.0639239796 0.0639239796
## OCCUP(09) legal services
                                                    0.0136275481 0.0136275481
## RELIGION(04) Christian/LDS
                                                   0.0007945784 0.0007945784
## RELIGION(05) Christian/Protestant
                                                    0.0091148607 0.0091148607
## OCCUP(05) education/academic research
                                                   0.0506529362 0.0506529362
## POLITICS(4) very liberal
                                                    0.0075967169 0.0075967169
## WANTKIDS(2) not sure
                                                    0.0527394243 0.0527394243
## OCCUP(15) transportation
                                                    0.0220293994 0.0220293994
## RELIGION(01) Atheist
                                                    0.0048919834 0.0048919834
## POLITICS(0) very conservative
                                                    0.0044426339 0.0044426339
## LANG_URDU(1) yes
                                                    0.0044767010 0.0044767010
## LANG_ARABIC(1) yes
                                                    0.0018420209 0.0018420209
## POLITICS(1) conservative
                                                    0.0021018423 0.0021018423
## distance
                                                    0.3320404906 0.5143038514
## LANG_FRENCH(1) yes
                                                    0.0299646278 0.0299646278
## EMPSTAT(7) work at home
                                                    0.0020588986 0.0020588986
## LANG_TAGALOG(1) yes
                                                    0.0215354269 0.0215354269
## LANG_DUTCH(1) yes
                                                    0.0014802382 0.0014802382
## RELIGION(07) Hindu
                                                    0.0058129939 0.0058129939
## RELIGION(13) Scientology
                                                    0.0001264320 0.0001264320
```

```
## EMPSTAT(3) retired
                                                    0.0006321601 0.0006321601
## RELIGION(02) Buddhist/Taoist
                                                    0.0073272991 0.0073272991
## LANG GERMAN(1) yes
                                                    0.0102527489 0.0102527489
## DRINKING(1) no
                                                    0.0204428815 0.0204428815
## INCOME(6) $100,000 to $149,999
                                                    0.0371702931 0.0371702931
##
                                                      eCDF Max M
## AGE
                                                    1.436877e-01
## RELIGION(11) Christian
                                                    3.696013e-02
## LIVE KIDS(0) no
                                                    3.612957e-02
## HAVEKIDS(1) yes, at home full-time
                                                    3.197674e-02
## POLITICS(6) no answer
                                                    3.156146e-02
## SERVICES(5) weekly
                                                    3.114618e-02
## HAVEKIDS(0) no
                                                    2.906977e-02
## LIVE_KIDS(1) yes
                                                    2.616279e-02
## OCCUP(18) no answer
                                                    2.574751e-02
## LIVE_PETS(0) no
                                                    2.533223e-02
## MARSTAT(0) single-never married
                                                    2.450166e-02
## SMOKING(1) no
                                                    2.367110e-02
## LANG ITALIAN(0) no
                                                    2.367110e-02
## SERVICES(0) no answer
                                                    2.367110e-02
## MARSTAT(1) divorced
                                                    2.117940e-02
## EMPSTAT(5) student
                                                    2.117940e-02
## RELIGION(14) Other
                                                    2.117940e-02
## RELIGION(15) no answer
                                                    2.034884e-02
                                                    4.485050e-02
## HEIGHT IN
## LIVE PARTY(0) no
                                                    1.910299e-02
## INCOME(0) no answer
                                                    1.910299e-02
## POLITICS(5) not political
                                                    1.910299e-02
## REGION(2) Chicago, IL
                                                    1.868771e-02
## BODY(6) a few extra pounds
                                                    1.785714e-02
## RELIGION(03) Christian/Catholic
                                                    1.785714e-02
## LANG_RUSSIAN(0) no
                                                    1.785714e-02
## SMOKING(2) occasionally
                                                    1.744186e-02
## LIVE_ALONE(1) yes
                                                    1.702658e-02
## SEX(0) female
                                                    1.661130e-02
## SEX(1) male
                                                    1.661130e-02
## LIVE PETS(1) yes
                                                    1.578073e-02
## INCOME(3) $35,000 to $49,999
                                                    1.578073e-02
## ETHNICITY(4) Hispanic/Latino
                                                    1.536545e-02
## EMPSTAT(8) no answer
                                                    1.495017e-02
## SERVICES(3) only on holidays
                                                    1.495017e-02
## LANG ARABIC(0) no
                                                    1.411960e-02
## OCCUP(00) artistic/musical/writer
                                                    1.411960e-02
## LANG_FRENCH(0) no
                                                    1.370432e-02
## LANG_DUTCH(0) no
                                                    1.370432e-02
## LANG_TAGALOG(0) no
                                                    1.370432e-02
## HAVEKIDS(3) yes, but not at home
                                                    1.328904e-02
## LANG_FRENCH(2) no answer
                                                    1.328904e-02
## LANG_GERMAN(2) no answer
                                                    1.328904e-02
## LANG_ITALIAN(2) no answer
                                                    1.328904e-02
## LANG_SPANISH(2) no answer
                                                    1.328904e-02
## LANG_PORTUGUESE(2) no answer
                                                    1.328904e-02
## LANG DUTCH(2) no answer
                                                    1.328904e-02
## LANG CHINESE(2) no answer
                                                    1.328904e-02
```

```
## LANG JAPANESE(2) no answer
                                                    1.328904e-02
## LANG ARABIC(2) no answer
                                                    1.328904e-02
## LANG RUSSIAN(2) no answer
                                                    1.328904e-02
## LANG_HEBREW(2) no answer
                                                    1.328904e-02
## LANG HINDI(2) no answer
                                                    1.328904e-02
## LANG TAGALOG(2) no answer
                                                    1.328904e-02
## LANG URDU(2) no answer
                                                    1.328904e-02
## LANG GERMAN(0) no
                                                    1.287375e-02
## SERVICES(2) rarely
                                                    1.245847e-02
## LANG_URDU(0) no
                                                    1.245847e-02
## REGION(3) Atlanta, GA
                                                    1.204319e-02
## LANG_HEBREW(0) no
                                                    1.162791e-02
## LIVE_PAR(1) yes
                                                    1.162791e-02
## LANG_SPANISH(0) no
                                                    1.162791e-02
## LIVE_FAM(0) no
                                                    1.121262e-02
## LANG_HINDI(0) no
                                                    1.121262e-02
## ETHNICITY(2) Caucasian
                                                    1.121262e-02
## WANTKIDS(0) no
                                                    1.121262e-02
## BODY(4) fit
                                                    1.079734e-02
## OCCUP(02) clerical/administrative
                                                    1.079734e-02
## LANG_ITALIAN(1) yes
                                                    1.038206e-02
## LIVE ALONE(2) no answer
                                                    1.038206e-02
## LANG_JAPANESE(0) no
                                                    1.038206e-02
## LANG PORTUGUESE(0) no
                                                    1.038206e-02
## LIVE KIDS(2) no answer
                                                    9.966777e-03
## LANG CHINESE(0) no
                                                    9.551495e-03
## BODY(7) large
                                                    9.551495e-03
## LIVE_PARTY(1) yes
                                                    9.551495e-03
## HAVEKIDS(4) no answer
                                                    9.551495e-03
## OCCUP(01) banking/financial services/real estate 9.551495e-03
## OCCUP(08) hospitality/travel
                                                    9.551495e-03
## OCCUP(14) technical science/engineering
                                                    9.551495e-03
## LIVE_PAR(2) no answer
                                                    9.551495e-03
## LIVE_PETS(2) no answer
                                                    9.551495e-03
## LIVE ROOM(2) no answer
                                                    9.551495e-03
## LIVE FAM(2) no answer
                                                    9.551495e-03
## LIVE PARTY(2) no answer
                                                    9.551495e-03
## OCCUP(13) sales/marketing
                                                    9.551495e-03
## MARSTAT(3) separated
                                                    8.720930e-03
## OCCUP(17) other
                                                    8.305648e-03
## DRINKING(2) occasionally
                                                    7.890365e-03
## ETHNICITY(1) Asian
                                                    7.890365e-03
## OCCUP(16) food service
                                                    7.475083e-03
## WANTKIDS(3) no answer
                                                    7.059801e-03
## INCOME(2) $25,000 to $34,999y
                                                    7.059801e-03
## SERVICES(4) monthly
                                                    7.059801e-03
## POLITICS(2) middle of the road
                                                    7.059801e-03
## LIVE ALONE(0) no
                                                    6.644518e-03
## POLITICS(3) liberal
                                                    6.644518e-03
## HAVEKIDS(2) yes, at home part-time
                                                    6.644518e-03
## OCCUP(03) computer related/hardware
                                                    6.229236e-03
## OCCUP(04) construction/craftsman
                                                    6.229236e-03
## RELIGION(12) Not religious
                                                    6.229236e-03
## LIVE ROOM(1) yes
                                                    5.813953e-03
```

	DRINKING(0) no answer	5.813953e-03
	RELIGION(06) Christian/Other	5.813953e-03
	BODY(0) slim	5.813953e-03
	OCCUP(06) entertainment/media	5.398671e-03
##	OCCUP(12) politics/government/military	5.398671e-03
##	WANTKIDS(1) yes	5.398671e-03
##	INCOME(4) \$50,000 to \$74,999	5.398671e-03
##	OCCUP(11) medical/health services	4.983389e-03
##	OCCUP(10) manufacturing/distributions	4.983389e-03
	SERVICES(1) never	4.983389e-03
##	HEIGHT_FT	1.744186e-02
	BODY(8) voluptous	4.568106e-03
	EMPSTAT(6) unemployed	4.568106e-03
	LANG_RUSSIAN(1) yes	4.568106e-03
	SMOKING(0) no answer	4.568106e-03
	BODY(3) athletic	4.152824e-03
	ETHNICITY(0) African American	3.737542e-03
	MARSTAT(4) no answer	3.737542e-03
	LANG_CHINESE(1) yes	3.737542e-03
	REGION(0) Los Angeles, CA	3.737542e-03
	LIVE_ROOM(0) no	3.737542e-03
	BODY(2) average	3.322259e-03
	EMPSTAT(1) part-time	3.322259e-03
	BODY(1) slender	3.322259e-03
	REGION(1) New York/New Jersey	2.906977e-03
	EMPSTAT(0) full-time	2.906977e-03
	RELIGION(10) Spiritual but not religious	2.906977e-03
	LANG_PORTUGUESE(1) yes	2.906977e-03
	LANG_JAPANESE(1) yes	2.906977e-03
	INCOME(1) less than \$24,999	2.491694e-03
##	INCOME(7) \$150,000+	2.491694e-03
##	LIVE_PAR(0) no	2.076412e-03
##	LANG_ENGLISH(1) yes	2.076412e-03
##	RELIGION(00) none/agnostic	2.076412e-03
##	SERVICES(6) more than once a week	2.076412e-03
##	DRINKING(3) often	2.076412e-03
##	LANG_HINDI(1) yes	2.076412e-03
##	BODY(9) no answer	2.076412e-03
##	EMPSTAT(2) homemaker	2.076412e-03
##	LANG_ENGLISH(0) no	2.076412e-03
##	SMOKING(3) often	1.661130e-03
	MARSTAT(2) widowed	1.661130e-03
##	INCOME(5) \$75,000 to \$99,999	1.661130e-03
	RELIGION(08) Jewish	1.661130e-03
	LANG_HEBREW(1) yes	1.661130e-03
	RELIGION(09) Islam	1.661130e-03
	BODY(5) thick	1.661130e-03
	LIVE_FAM(1) yes	1.661130e-03
	EMPSTAT(4) self-employed	1.661130e-03
	OCCUP(07) executive/management	1.661130e-03
	LANG_SPANISH(1) yes	1.661130e-03
	OCCUP(09) legal services	1.245847e-03
	RELIGION(04) Christian/LDS	1.245847e-03
	RELIGION(05) Christian/Protestant	1.245847e-03
πĦ	inditaton (00) out to train, Eloceptant	1.2400416 03

```
## OCCUP(05) education/academic research
                                                     1.245847e-03
## POLITICS(4) very liberal
                                                     1.245847e-03
## WANTKIDS(2) not sure
                                                   1.245847e-03
## OCCUP(15) transportation
                                                     8.305648e-04
## RELIGION(01) Atheist
                                                     8.305648e-04
## POLITICS(0) very conservative
                                                     8.305648e-04
## LANG URDU(1) yes
                                                     8.305648e-04
                                                     8.305648e-04
## LANG ARABIC(1) yes
## POLITICS(1) conservative
                                                     8.305648e-04
## distance
                                                     1.328904e-02
## LANG_FRENCH(1) yes
                                                     4.152824e-04
## EMPSTAT(7) work at home
                                                     4.152824e-04
## LANG_TAGALOG(1) yes
                                                     4.152824e-04
## LANG_DUTCH(1) yes
                                                     4.152824e-04
## RELIGION(07) Hindu
                                                     4.152824e-04
## RELIGION(13) Scientology
                                                     4.152824e-04
## EMPSTAT(3) retired
                                                     4.152824e-04
## RELIGION(02) Buddhist/Taoist
                                                     4.152824e-04
## LANG_GERMAN(1) yes
                                                     4.152824e-04
## DRINKING(1) no
                                                     2.775558e-17
## INCOME(6) $100,000 to $149,999
                                                     0.000000e+00
                                                     Std. Pair Dist. B4
## AGE
                                                                     NΔ
## RELIGION(11) Christian
## LIVE KIDS(0) no
                                                                     NΑ
## HAVEKIDS(1) yes, at home full-time
                                                                     NA
## POLITICS(6) no answer
                                                                     NA
## SERVICES(5) weekly
                                                                     NA
## HAVEKIDS(0) no
                                                                     NA
## LIVE_KIDS(1) yes
                                                                     NA
## OCCUP(18) no answer
                                                                     NA
## LIVE_PETS(0) no
                                                                     NA
## MARSTAT(0) single-never married
                                                                     NA
## SMOKING(1) no
                                                                     NΑ
## LANG ITALIAN(0) no
                                                                     NA
## SERVICES(0) no answer
                                                                     NA
## MARSTAT(1) divorced
                                                                     NA
## EMPSTAT(5) student
                                                                     NΔ
## RELIGION(14) Other
                                                                     NA
## RELIGION(15) no answer
                                                                     NA
## HEIGHT IN
                                                                     NΑ
## LIVE PARTY(0) no
                                                                     NA
## INCOME(0) no answer
                                                                     NA
## POLITICS(5) not political
                                                                     NΑ
## REGION(2) Chicago, IL
                                                                     NA
## BODY(6) a few extra pounds
                                                                     NA
## RELIGION(03) Christian/Catholic
                                                                     NA
## LANG_RUSSIAN(0) no
                                                                     NA
## SMOKING(2) occasionally
                                                                     NA
## LIVE_ALONE(1) yes
                                                                     NA
## SEX(0) female
                                                                     NΑ
## SEX(1) male
                                                                     NΑ
## LIVE_PETS(1) yes
                                                                     NA
## INCOME(3) $35,000 to $49,999
                                                                     NA
```

	ETHNICITY(4) Hispanic/Latino	NA
	EMPSTAT(8) no answer	NA
	SERVICES(3) only on holidays	NA
	LANG_ARABIC(0) no	NA
	OCCUP(00) artistic/musical/writer	NA
	LANG_FRENCH(0) no LANG_DUTCH(0) no	NA
	LANG_TAGALOG(0) no	NA NA
	-	NA NA
	HAVEKIDS(3) yes, but not at home LANG_FRENCH(2) no answer	NA NA
	LANG_GERMAN(2) no answer	NA NA
	LANG_ITALIAN(2) no answer	NA NA
	LANG_SPANISH(2) no answer	NA
	LANG_PORTUGUESE(2) no answer	NA
	LANG_DUTCH(2) no answer	NA
	LANG_CHINESE(2) no answer	NA
	LANG_JAPANESE(2) no answer	NA
	LANG_ARABIC(2) no answer	NA
	LANG_RUSSIAN(2) no answer	NA
	LANG_HEBREW(2) no answer	NA
	LANG_HINDI(2) no answer	NA
	LANG_TAGALOG(2) no answer	NA
	LANG_URDU(2) no answer	NA
	LANG_GERMAN(0) no	NA
	SERVICES(2) rarely	NA
	LANG_URDU(0) no	NA
	REGION(3) Atlanta, GA	NA
	LANG_HEBREW(0) no	NA
	LIVE_PAR(1) yes	NA
	LANG_SPANISH(0) no	NA
##	LIVE_FAM(0) no	NA
##	LANG_HINDI(0) no	NA
##	ETHNICITY(2) Caucasian	NA
##	WANTKIDS(0) no	NA
##	BODY(4) fit	NA
##	OCCUP(02) clerical/administrative	NA
##	LANG_ITALIAN(1) yes	NA
##	LIVE_ALONE(2) no answer	NA
	LANG_JAPANESE(0) no	NA
	LANG_PORTUGUESE(0) no	NA
##	LIVE_KIDS(2) no answer	NA
	LANG_CHINESE(0) no	NA
	BODY(7) large	NA
##	LIVE_PARTY(1) yes	NA
	HAVEKIDS(4) no answer	NA
	OCCUP(01) banking/financial services/real estate	NA
	OCCUP(08) hospitality/travel	NA
	OCCUP(14) technical science/engineering	NA
	LIVE_PAR(2) no answer	NA
	LIVE_PETS(2) no answer	NA
	LIVE_ROOM(2) no answer	NA
	LIVE_FAM(2) no answer	NA
	LIVE_PARTY(2) no answer	NA
##	OCCUP(13) sales/marketing	NA

	MARSTAT(3) separated	NA
	OCCUP(17) other	NA
	DRINKING(2) occasionally	NA
	ETHNICITY(1) Asian	ΝA
	OCCUP(16) food service	NA
	WANTKIDS(3) no answer	NA
	INCOME(2) \$25,000 to \$34,999y	ΝA
	SERVICES(4) monthly	NA
	POLITICS(2) middle of the road	NA
	LIVE_ALONE(0) no	NA
	POLITICS(3) liberal	NA
	HAVEKIDS(2) yes, at home part-time	NA
	OCCUP(03) computer related/hardware	NA
	OCCUP(04) construction/craftsman	NA
	RELIGION(12) Not religious	NA
	LIVE_ROOM(1) yes	NA
	DRINKING(0) no answer	NA
	RELIGION(06) Christian/Other	NA
	BODY(0) slim	ΝA
	OCCUP(06) entertainment/media	ΝA
	OCCUP(12) politics/government/military	NA
	WANTKIDS(1) yes	ΝA
	INCOME(4) \$50,000 to \$74,999	ΝA
	OCCUP(11) medical/health services	NA
	OCCUP(10) manufacturing/distributions	NA
	SERVICES(1) never	NA
	HEIGHT_FT	NA
	BODY(8) voluptous	NA
	EMPSTAT(6) unemployed	NA
	LANG_RUSSIAN(1) yes	NA
	SMOKING(0) no answer	NA
	BODY(3) athletic	NA
	ETHNICITY(0) African American	NA
	MARSTAT(4) no answer	NA
	LANG_CHINESE(1) yes	NA
	REGION(0) Los Angeles, CA	NA
	LIVE_ROOM(0) no	NA
	BODY(2) average	NA
	EMPSTAT(1) part-time	NA
	BODY(1) slender	NA
	REGION(1) New York/New Jersey	NA
	EMPSTAT(0) full-time	NA
	RELIGION(10) Spiritual but not religious	NA
	LANG_PORTUGUESE(1) yes	NA
	LANG_JAPANESE(1) yes	NA NA
	INCOME(1) less than \$24,999	NA NA
	INCOME(7) \$150,000+	
	LIVE_PAR(0) no	NA NA
	LANG_ENGLISH(1) yes	NA
	RELIGION(00) none/agnostic	NA
	SERVICES(6) more than once a week	NA NA
	DRINKING(3) often LANG_HINDI(1) yes	NA NA
	BODY(9) no answer	NA NA
##	ווחסן (פ) ווח מווצאפו	IV A

##	EMPSTAT(2) homemaker	NA
	LANG_ENGLISH(0) no	NA
	SMOKING(3) often	NA
	MARSTAT(2) widowed	NA
##	INCOME(5) \$75,000 to \$99,999	NA
	RELIGION(08) Jewish	NA
	LANG_HEBREW(1) yes	NA
	RELIGION(09) Islam	NA
	BODY(5) thick	NA
	LIVE_FAM(1) yes	NA
	EMPSTAT(4) self-employed	NA
	OCCUP(07) executive/management	NA
	LANG_SPANISH(1) yes	NA
	OCCUP(09) legal services	NA
	RELIGION(04) Christian/LDS	NA
	RELIGION(05) Christian/Protestant	NA
	OCCUP(05) education/academic research	NA
	POLITICS(4) very liberal	NA
	WANTKIDS(2) not sure	NA
	OCCUP(15) transportation	NA
	RELIGION(01) Atheist	NA
	POLITICS(0) very conservative	NA
	LANG_URDU(1) yes	NA
	LANG_ARABIC(1) yes	NA
	POLITICS(1) conservative	NA
	distance	NA
	LANG_FRENCH(1) yes	NA
	EMPSTAT(7) work at home	NA
	LANG_TAGALOG(1) yes	NA
	LANG_DUTCH(1) yes	NA
	RELIGION(07) Hindu	NA
	RELIGION(13) Scientology	NA
	EMPSTAT(3) retired	NA
	RELIGION(02) Buddhist/Taoist	NA
	LANG_GERMAN(1) yes DRINKING(1) no	NA NA
	INCOME(6) \$100,000 to \$149,999	NA NA
##	INCOME(6) \$100,000 to \$149,999	Std. Pair Dist. M
	AGE	0.965661130
	RELIGION(11) Christian	0.997821903
	LIVE_KIDS(0) no	0.968779232
	HAVEKIDS(1) yes, at home full-time	0.765654618
	POLITICS(6) no answer	0.956334640
	SERVICES(5) weekly	0.832692029
	HAVEKIDS(0) no	0.959091379
	LIVE KIDS(1) yes	0.720089948
	OCCUP(18) no answer	0.607627762
	LIVE_PETS(0) no	1.007684003
	MARSTAT(0) single-never married	0.927736341
	SMOKING(1) no	0.828211392
	LANG_ITALIAN(0) no	0.972620756
	SERVICES(0) no answer	0.874505273
	MARSTAT(1) divorced	0.855895455
	EMPSTAT(5) student	0.636705452
		0.000,00402

шш	DELICION(14) Other	0 501106113
	RELIGION(14) Other RELIGION(15) no answer	0.501106113 0.807994564
		1.148334014
	HEIGHT_IN LIVE_PARTY(0) no	0.976441405
	INCOME(0) no answer	0.981368474
	POLITICS(5) not political	0.806798180
	REGION(2) Chicago, IL	0.920022079
	BODY(6) a few extra pounds	0.541907568
	RELIGION(03) Christian/Catholic	0.766309908
	LANG_RUSSIAN(0) no	0.950318050
	SMOKING(2) occasionally	0.693055541
	LIVE_ALONE(1) yes	0.784301074
	SEX(0) female	0.971953918
	SEX(1) male	0.971953918
	LIVE_PETS(1) yes	0.595217666
	INCOME(3) \$35,000 to \$49,999	0.726240776
	ETHNICITY(4) Hispanic/Latino	0.900774145
	EMPSTAT(8) no answer	0.306513823
	SERVICES(3) only on holidays	0.610527817
	LANG_ARABIC(0) no	0.946194943
	OCCUP(00) artistic/musical/writer	0.532419712
	LANG FRENCH(0) no	0.962035209
	LANG_DUTCH(0) no	0.950095829
	LANG_TAGALOG(0) no	0.955051328
	HAVEKIDS(3) yes, but not at home	0.688032706
	LANG_FRENCH(2) no answer	0.948132682
	LANG_GERMAN(2) no answer	0.948132682
	LANG_ITALIAN(2) no answer	0.948132682
	LANG_SPANISH(2) no answer	0.948132682
	LANG_PORTUGUESE(2) no answer	0.948132682
	LANG_DUTCH(2) no answer	0.948132682
	LANG_CHINESE(2) no answer	0.948132682
	LANG_JAPANESE(2) no answer	0.948132682
	LANG_ARABIC(2) no answer	0.948132682
	LANG_RUSSIAN(2) no answer	0.948132682
	LANG_HEBREW(2) no answer	0.948132682
	LANG HINDI(2) no answer	0.948132682
	LANG_TAGALOG(2) no answer	0.948132682
	LANG URDU(2) no answer	0.948132682
	LANG_GERMAN(O) no	0.960035993
	SERVICES(2) rarely	0.913353369
	LANG_URDU(0) no	0.946935991
	REGION(3) Atlanta, GA	0.846791808
	LANG HEBREW(0) no	0.949869403
##	LIVE_PAR(1) yes	0.563719602
	LANG_SPANISH(0) no	0.985458851
##	LIVE_FAM(0) no	0.994204898
##	LANG_HINDI(O) no	0.949279675
	ETHNICITY(2) Caucasian	0.738509702
	WANTKIDS(0) no	0.733819002
	BODY(4) fit	0.378573836
	OCCUP(02) clerical/administrative	0.510376114
	LANG_ITALIAN(1) yes	0.315996209
	LIVE_ALONE(2) no answer	0.956317853

```
## LANG JAPANESE(0) no
                                                           0.966520034
## LANG PORTUGUESE(0) no
                                                           0.949243203
## LIVE KIDS(2) no answer
                                                           0.958663688
## LANG_CHINESE(0) no
                                                           0.962704155
## BODY(7) large
                                                           0.209329400
## LIVE PARTY(1) yes
                                                           0.277527004
## HAVEKIDS(4) no answer
                                                           0.295048570
## OCCUP(01) banking/financial services/real estate
                                                           0.438159853
## OCCUP(08) hospitality/travel
                                                           0.340396324
## OCCUP(14) technical science/engineering
                                                           0.457536088
## LIVE_PAR(2) no answer
                                                           0.957498403
## LIVE PETS(2) no answer
                                                           0.957498403
## LIVE_ROOM(2) no answer
                                                           0.957498403
## LIVE_FAM(2) no answer
                                                           0.957498403
## LIVE_PARTY(2) no answer
                                                           0.957498403
## OCCUP(13) sales/marketing
                                                           0.460591750
## MARSTAT(3) separated
                                                           0.407980832
## OCCUP(17) other
                                                           0.731398958
## DRINKING(2) occasionally
                                                           0.799931273
## ETHNICITY(1) Asian
                                                           0.608974904
## OCCUP(16) food service
                                                           0.186604476
## WANTKIDS(3) no answer
                                                           0.754647427
## INCOME(2) $25,000 to $34,999y
                                                           0.619765417
## SERVICES(4) monthly
                                                           0.540806955
## POLITICS(2) middle of the road
                                                           0.860866577
## LIVE ALONE(0) no
                                                           0.893493817
## POLITICS(3) liberal
                                                           0.685498445
## HAVEKIDS(2) yes, at home part-time
                                                           0.363632001
## OCCUP(03) computer related/hardware
                                                           0.501801713
## OCCUP(04) construction/craftsman
                                                           0.330360832
## RELIGION(12) Not religious
                                                           0.297591449
## LIVE_ROOM(1) yes
                                                           0.706433598
## DRINKING(0) no answer
                                                           0.285431759
## RELIGION(06) Christian/Other
                                                           0.248046768
## BODY(0) slim
                                                           0.601664614
## OCCUP(06) entertainment/media
                                                           0.388961943
## OCCUP(12) politics/government/military
                                                           0.424687401
## WANTKIDS(1) yes
                                                           0.979697685
## INCOME(4) $50,000 to $74,999
                                                           0.546919502
## OCCUP(11) medical/health services
                                                           0.450244140
## OCCUP(10) manufacturing/distributions
                                                           0.294766451
## SERVICES(1) never
                                                           0.545284239
## HEIGHT FT
                                                           0.689578478
## BODY(8) voluptous
                                                           0.370679727
## EMPSTAT(6) unemployed
                                                           0.144034782
## LANG_RUSSIAN(1) yes
                                                           0.219800095
## SMOKING(0) no answer
                                                           0.390707472
## BODY(3) athletic
                                                           0.825413856
## ETHNICITY(0) African American
                                                           0.869986125
## MARSTAT(4) no answer
                                                           0.342382136
                                                           0.291236770
## LANG_CHINESE(1) yes
## REGION(0) Los Angeles, CA
                                                           0.863947552
## LIVE ROOM(0) no
                                                           1.030734097
## BODY(2) average
                                                           0.931643020
```

```
## EMPSTAT(1) part-time
                                                           0.508652161
## BODY(1) slender
                                                           0.398579036
## REGION(1) New York/New Jersey
                                                           0.794342340
## EMPSTAT(0) full-time
                                                           0.858269261
## RELIGION(10) Spiritual but not religious
                                                           0.498262676
## LANG PORTUGUESE(1) yes
                                                           0.103783308
## LANG JAPANESE(1) ves
                                                           0.202612974
## INCOME(1) less than $24,999
                                                           0.474889979
## INCOME(7) $150,000+
                                                           0.144639214
## LIVE_PAR(0) no
                                                           0.978672107
## LANG_ENGLISH(1) yes
                                                           0.112051989
## RELIGION(00) none/agnostic
                                                           0.383142279
## SERVICES(6) more than once a week
                                                           0.348536158
## DRINKING(3) often
                                                           0.170222924
## LANG_HINDI(1) yes
                                                           0.088472230
## BODY(9) no answer
                                                           0.214708886
## EMPSTAT(2) homemaker
                                                           0.197673592
## LANG_ENGLISH(0) no
                                                           0.112051989
## SMOKING(3) often
                                                           0.448374897
## MARSTAT(2) widowed
                                                           0.192878440
## INCOME(5) $75,000 to $99,999
                                                           0.289095300
## RELIGION(08) Jewish
                                                           0.174792940
## LANG_HEBREW(1) yes
                                                           0.054738055
## RELIGION(09) Islam
                                                           0.117949462
## BODY(5) thick
                                                           0.591844630
## LIVE FAM(1) yes
                                                           0.475727035
## EMPSTAT(4) self-employed
                                                           0.530179976
## OCCUP(07) executive/management
                                                           0.369334363
## LANG_SPANISH(1) yes
                                                           0.831015187
## OCCUP(09) legal services
                                                           0.266544132
## RELIGION(04) Christian/LDS
                                                           0.050988564
## RELIGION(05) Christian/Protestant
                                                           0.217891886
## OCCUP(05) education/academic research
                                                           0.333704832
## POLITICS(4) very liberal
                                                           0.314503512
## WANTKIDS(2) not sure
                                                           0.898947539
## OCCUP(15) transportation
                                                           0.351552869
## RELIGION(01) Atheist
                                                           0.123416971
## POLITICS(0) very conservative
                                                           0.200915042
## LANG URDU(1) yes
                                                           0.086602540
## LANG_ARABIC(1) yes
                                                           0.142068597
## POLITICS(1) conservative
                                                           0.527487325
## distance
                                                           0.002516448
## LANG FRENCH(1) yes
                                                           0.317046008
## EMPSTAT(7) work at home
                                                           0.158406102
## LANG_TAGALOG(1) yes
                                                           0.232179879
## LANG_DUTCH(1) yes
                                                           0.072078741
## RELIGION(07) Hindu
                                                           0.043247245
## RELIGION(13) Scientology
                                                           0.061148134
## EMPSTAT(3) retired
                                                           0.100353101
## RELIGION(02) Buddhist/Taoist
                                                           0.249916708
## LANG_GERMAN(1) yes
                                                           0.196489393
## DRINKING(1) no
                                                           0.289867110
## INCOME(6) $100,000 to $149,999
                                                           0.014119601
```

```
#get the weights of all the observations
weights ATC wr4 <- as.vector(mat nearest ATC wr4$weights)</pre>
YHdatNA$D WANTKIDS NO v2 <- ifelse(YHdatNA$D WANTKIDS NO == "(1) yes", 1, 0) #yes, they want't to date
#Warning: non-integer #successes in a binomial glm!
Mat_Mod_ATC_wr4_log <- glm(D_WANTKIDS_NO_v2 ~ as.factor(CGRAD) + REGION + as.factor(SEX) + AGE + ETHN
Step 5: Estimate Treatment Effects
## Warning in eval(family$initialize): non-integer #successes in a binomial glm!
options(max.print=50)
Mat_Mod_ATC_wr_summary <- summary(Mat_Mod_ATC_wr4_log)</pre>
sink("lm.txt")
print(Mat_Mod_ATC_wr_summary)
##
## Call:
## glm(formula = D_WANTKIDS_NO_v2 ~ as.factor(CGRAD) + REGION +
       as.factor(SEX) + AGE + ETHNICITY + MARSTAT + BODY + HEIGHT_FT +
      HEIGHT IN + SMOKING + DRINKING + LIVE ALONE + LIVE KIDS +
##
##
      LIVE_PAR + LIVE_PETS + LIVE_ROOM + LIVE_FAM + LIVE_PARTY +
##
      HAVEKIDS + WANTKIDS + EMPSTAT + OCCUP + INCOME + RELIGION +
##
      SERVICES + POLITICS + LANG_ENGLISH + LANG_FRENCH + LANG_GERMAN +
##
      LANG_ITALIAN + LANG_SPANISH + LANG_PORTUGUESE + LANG_DUTCH +
      LANG_CHINESE + LANG_JAPANESE + LANG_ARABIC + LANG_RUSSIAN +
##
##
      LANG_HEBREW + LANG_HINDI + LANG_TAGALOG + LANG_URDU, family = binomial("logit"),
##
       data = YHdatNA, weights = weights_ATC_wr4)
## Coefficients: (17 not defined because of singularities)
                                                      Estimate Std. Error z value
                                                    -5.531e+00 2.703e+00 -2.046
## (Intercept)
                                                    -1.441e-01 1.600e-01 -0.901
## as.factor(CGRAD)1
## REGION(1) New York/New Jersey
                                                     2.651e-01 2.145e-01 1.236
## REGION(2) Chicago, IL
                                                     3.417e-01 2.044e-01 1.671
## REGION(3) Atlanta, GA
                                                     3.607e-01 2.166e-01 1.665
                                                    -5.777e-01 2.284e-01 -2.530
## as.factor(SEX)(1) male
## AGE
                                                     5.866e-02 1.204e-02 4.871
## ETHNICITY(1) Asian
                                                     2.167e-01 3.210e-01 0.675
                                                     1.230e-01 2.380e-01
## ETHNICITY(2) Caucasian
                                                                           0.517
                                                     1.631e-01 2.371e-01 0.688
## ETHNICITY(4) Hispanic/Latino
                                                    Pr(>|z|)
## (Intercept)
                                                     0.04071 *
## as.factor(CGRAD)1
                                                     0.36756
## REGION(1) New York/New Jersey
                                                     0.21650
## REGION(2) Chicago, IL
                                                     0.09466 .
## REGION(3) Atlanta, GA
                                                     0.09593 .
## as.factor(SEX)(1) male
                                                     0.01141 *
## AGE
                                                    1.11e-06 ***
## ETHNICITY(1) Asian
                                                     0.49958
## ETHNICITY(2) Caucasian
                                                     0.60534
```

```
## ETHNICITY(4) Hispanic/Latino
                                                      0.49147
## [ reached getOption("max.print") -- omitted 131 rows ]
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance: 2614.2 on 3435 degrees of freedom
## Residual deviance: 1505.1 on 3312 degrees of freedom
## AIC: 1677.4
##
## Number of Fisher Scoring iterations: 14
sink()
point_estimate_matchATC_wr4_log <- (coeftest(Mat_Mod_ATC_wr4_log, vcov = sandwich)[2,1])</pre>
point_estimate_matchATC_wr4_log
## [1] -0.1441447
probcoef <- point_estimate_matchATC_wr4_log/4</pre>
probcoef
## [1] -0.03603616
point_SE_matchATC_wr4_log <- (coeftest(Mat_Mod_ATC_wr4_log, vcov = sandwich)[2,2])</pre>
point_SE_matchATC_wr4_log
## [1] 0.1085549
#linear regression for final compare
Mat_Mod_ATC_wr4_lm_vanilla <- lm(D_WANTKIDS_NO_v2 ~ as.factor(CGRAD) + REGION + as.factor(SEX) + AGE +</pre>
options(max.print=50)
Mat_Mod_ATC_wr4_lm_vanilla_summary <- summary(Mat_Mod_ATC_wr4_lm_vanilla)</pre>
Mat_Mod_ATC_wr4_lm_vanilla_summary
##
## Call:
## lm(formula = D_WANTKIDS_NO_v2 ~ as.factor(CGRAD) + REGION + as.factor(SEX) +
       AGE + ETHNICITY + MARSTAT + BODY + HEIGHT_FT + HEIGHT_IN +
##
##
       SMOKING + DRINKING + LIVE_ALONE + LIVE_KIDS + LIVE_PAR +
       LIVE_PETS + LIVE_ROOM + LIVE_FAM + LIVE_PARTY + HAVEKIDS +
##
       WANTKIDS + EMPSTAT + OCCUP + INCOME + RELIGION + SERVICES +
##
##
       POLITICS + LANG_ENGLISH + LANG_FRENCH + LANG_GERMAN + LANG_ITALIAN +
##
       LANG SPANISH + LANG PORTUGUESE + LANG DUTCH + LANG CHINESE +
       LANG_JAPANESE + LANG_ARABIC + LANG_RUSSIAN + LANG_HEBREW +
##
       LANG HINDI + LANG TAGALOG + LANG URDU, data = YHdatNA)
##
##
## Residuals:
##
        Min
                  1Q Median
                                    3Q
                                             Max
## -0.73771 -0.07567 -0.02919 0.01460 1.05769
## Coefficients: (17 not defined because of singularities)
##
                                                       Estimate Std. Error t value
```

```
## (Intercept)
                                                    0.3704392 0.1123204
                                                                           3.298
## as.factor(CGRAD)1
                                                   -0.0079750 0.0080026 -0.997
## REGION(1) New York/New Jersey
                                                    0.0082174 0.0094541 0.869
## REGION(2) Chicago, IL
                                                    0.0214617 0.0094914
                                                                           2.261
## REGION(3) Atlanta, GA
                                                    0.0180687 0.0101156
                                                                           1.786
## as.factor(SEX)(1) male
                                                   -0.0275866 0.0105202 -2.622
## AGE
                                                    0.0055464 0.0006052 9.165
                                                    0.0222458 0.0125783 1.769
## ETHNICITY(1) Asian
## ETHNICITY(2) Caucasian
                                                    0.0076189 0.0105130
                                                                           0.725
## ETHNICITY(4) Hispanic/Latino
                                                    0.0116773 0.0117635 0.993
                                                   Pr(>|t|)
## (Intercept)
                                                   0.000979 ***
## as.factor(CGRAD)1
                                                   0.319020
## REGION(1) New York/New Jersey
                                                   0.384781
## REGION(2) Chicago, IL
                                                   0.023785 *
## REGION(3) Atlanta, GA
                                                   0.074117
## as.factor(SEX)(1) male
                                                   0.008758 **
## AGE
                                                    < 2e-16 ***
## ETHNICITY(1) Asian
                                                   0.077017 .
## ETHNICITY(2) Caucasian
                                                   0.468658
## ETHNICITY(4) Hispanic/Latino
                                                   0.320912
## [ reached getOption("max.print") -- omitted 131 rows ]
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2502 on 5746 degrees of freedom
## Multiple R-squared: 0.3664, Adjusted R-squared: 0.3528
## F-statistic: 27.01 on 123 and 5746 DF, p-value: < 2.2e-16
sink("lm van.txt")
print(Mat_Mod_ATC_wr4_lm_vanilla_summary)
##
## lm(formula = D_WANTKIDS_NO_v2 ~ as.factor(CGRAD) + REGION + as.factor(SEX) +
       AGE + ETHNICITY + MARSTAT + BODY + HEIGHT_FT + HEIGHT_IN +
       SMOKING + DRINKING + LIVE_ALONE + LIVE_KIDS + LIVE_PAR +
##
      LIVE_PETS + LIVE_ROOM + LIVE_FAM + LIVE_PARTY + HAVEKIDS +
##
##
       WANTKIDS + EMPSTAT + OCCUP + INCOME + RELIGION + SERVICES +
       POLITICS + LANG_ENGLISH + LANG_FRENCH + LANG_GERMAN + LANG_ITALIAN +
##
      LANG_SPANISH + LANG_PORTUGUESE + LANG_DUTCH + LANG_CHINESE +
##
      LANG_JAPANESE + LANG_ARABIC + LANG_RUSSIAN + LANG_HEBREW +
##
      LANG_HINDI + LANG_TAGALOG + LANG_URDU, data = YHdatNA)
##
##
## Residuals:
##
       Min
                 1Q
                     Median
                                   30
## -0.73771 -0.07567 -0.02919 0.01460 1.05769
## Coefficients: (17 not defined because of singularities)
##
                                                     Estimate Std. Error t value
## (Intercept)
                                                    0.3704392 0.1123204
                                                   -0.0079750 0.0080026 -0.997
## as.factor(CGRAD)1
## REGION(1) New York/New Jersey
                                                    0.0082174 0.0094541
                                                                           0.869
## REGION(2) Chicago, IL
                                                    0.0214617 0.0094914
                                                                           2.261
## REGION(3) Atlanta, GA
                                                    0.0180687 0.0101156 1.786
```

```
## as.factor(SEX)(1) male
                                                    -0.0275866 0.0105202 -2.622
## AGE
                                                     0.0055464 0.0006052 9.165
                                                     0.0222458 0.0125783 1.769
## ETHNICITY(1) Asian
## ETHNICITY(2) Caucasian
                                                    0.0076189 0.0105130 0.725
## ETHNICITY(4) Hispanic/Latino
                                                     0.0116773 0.0117635 0.993
                                                   Pr(>|t|)
## (Intercept)
                                                   0.000979 ***
                                                   0.319020
## as.factor(CGRAD)1
## REGION(1) New York/New Jersey
                                                   0.384781
## REGION(2) Chicago, IL
                                                   0.023785 *
## REGION(3) Atlanta, GA
                                                   0.074117 .
## as.factor(SEX)(1) male
                                                   0.008758 **
                                                    < 2e-16 ***
## ETHNICITY(1) Asian
                                                   0.077017 .
## ETHNICITY(2) Caucasian
                                                    0.468658
## ETHNICITY(4) Hispanic/Latino
                                                    0.320912
## [ reached getOption("max.print") -- omitted 131 rows ]
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.2502 on 5746 degrees of freedom
## Multiple R-squared: 0.3664, Adjusted R-squared: 0.3528
## F-statistic: 27.01 on 123 and 5746 DF, p-value: < 2.2e-16
sink()
point_estimate_matchATC_wr4_lm_van<- (coeftest(Mat_Mod_ATC_wr4_lm_vanilla, vcov = sandwich)[2,1])</pre>
point estimate matchATC wr4 lm van
## [1] -0.007975043
point_SE_matchATC_wr4_lm_van <- (coeftest(Mat_Mod_ATC_wr4_lm_vanilla, vcov = sandwich)[2,2])</pre>
point_SE_matchATC_wr4_lm_van
## [1] 0.008098707
```