

Regressions and Balance Tests

Simon Heuberger

12/13/2020

```
group_by(df.first.omit, hc.group) %>% summarize(count = n())
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
## # A tibble: 5 x 2
##   hc.group count
##   <chr>     <int>
## 1 control     46
## 2 m.opp       29
## 3 m.supp      28
## 4 si.opp      51
## 5 si.supp     42
```

```
group_by(df.first.omit, ev.group) %>% summarize(count = n())
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
## # A tibble: 5 x 2
##   ev.group count
##   <chr>     <int>
## 1 control     50
## 2 m.opp       42
## 3 m.supp      34
## 4 si.opp      24
## 5 si.supp     46
```

Table 1: Healthcare Regression Results

	<i>Dependent variable:</i>
	hc.likert
hc.groupm.opp	0.060 (0.268)
hc.groupm.supp	-0.284 (0.268)
hc.groupsi.opp	-0.100 (0.226)
hc.groupsi.supp	-0.150 (0.235)
mor.all	0.428*** (0.089)
si.all	0.062 (0.087)
dem	0.526*** (0.169)
emplFull time	0.030 (0.217)
emplStudent	0.329 (0.824)
emplRetired	-0.087 (0.700)
emplHomemaker	-0.267 (0.538)
emplUnemployed	0.175 (0.400)
39,999	-0.341 (0.272)
59,999	-0.173 (0.256)
79,999	-0.365 (0.286)
99,999	-0.324 (0.312)
149,999	-0.791* (0.445)
150,000 or more	0.114 (0.476)
Constant	1.490*** (0.560)
Observations	196
R ²	0.236
Adjusted R ²	0.159
Residual Std. Error	1.091 (df = 177)
F Statistic	3.043*** (df = 18; 177)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01

Table 2: Environment Regression Results

	<i>Dependent variable:</i>
	ev.likert
ev.groupm.opp	−0.726*** (0.227)
ev.groupm.supp	−0.444* (0.241)
ev.groupsi.opp	−0.484* (0.272)
ev.groupsi.supp	−0.228 (0.220)
mor.all	0.538*** (0.083)
si.all	−0.030 (0.084)
dem	0.330** (0.162)
emplFull time	0.010 (0.208)
emplStudent	0.771 (0.796)
emplRetired	0.728 (0.673)
emplHomemaker	0.225 (0.515)
emplUnemployed	0.592 (0.385)
39,999	0.183 (0.264)
59,999	0.263 (0.249)
79,999	0.321 (0.281)
99,999	0.346 (0.301)
149,999	−0.318 (0.425)
150,000 or more	0.283 (0.457)
Constant	1.430*** (0.534)
Observations	196
R ²	0.317
Adjusted R ²	0.248
Residual Std. Error	1.046 (df = 177)
F Statistic	4.570*** (df = 18; 177)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01

```

hc.group.num ~ race + gender + empl + inc + pid + educ + age, data = df.first.omit,
  report = c("std.diffs", "z.scores", "adj.means", "adj.mean.diffs",
    "adj.mean.diffs.null.sd", "chisquare.test", "p.values")

```

vars	hc.group.num.0	hc.group.num.1	adj.diff	adj.diff.null.sd	std.diff	z	p
raceWhite	0.00	0.03	0.03	0.02	0.06	1.28	0.20
raceBlack	0.00	-0.03	-0.03	0.02	-0.08	-1.62	0.11
raceArab	0.00	-0.01	-0.01	0.01	-0.03	-0.68	0.50
raceHispanic	0.00	-0.00	-0.00	0.01	-0.01	-0.11	0.91
raceAsian	0.00	0.00	0.00	0.00	0.06	1.30	0.19
raceAmerican Indian	0.00	0.01	0.01	0.01	0.05	1.09	0.28
raceOther	0.00	-0.00	-0.00	0.00	-0.03	-0.72	0.47
genderMale	0.00	-0.03	-0.03	0.02	-0.07	-1.38	0.17
genderFemale	0.00	0.03	0.03	0.02	0.06	1.19	0.23
genderOther	0.00	0.00	0.00	0.00	0.06	1.30	0.19
emplPart time	0.00	0.01	0.01	0.02	0.03	0.60	0.55
emplFull time	0.00	-0.02	-0.02	0.02	-0.04	-0.77	0.44
emplStudent	0.00	0.00	0.00	0.00	0.02	0.41	0.68
emplRetired	0.00	-0.01	-0.01	0.01	-0.04	-0.87	0.39
emplHomemaker	0.00	0.00	0.00	0.01	0.01	0.20	0.84
emplUnemployed	0.00	0.01	0.01	0.01	0.03	0.67	0.50
incLess than \$20,000	0.00	0.00	0.00	0.02	0.01	0.13	0.90
inc\$20,000 to \$39,999	0.00	0.01	0.01	0.02	0.03	0.60	0.55
inc\$40,000 to \$59,999	0.00	-0.01	-0.01	0.02	-0.03	-0.53	0.60
inc\$60,000 to \$79,999	0.00	0.00	0.00	0.02	0.01	0.21	0.83
inc\$80,000 to \$99,999	0.00	0.00	0.00	0.02	0.00	0.05	0.96
inc\$100,000 to \$149,999	0.00	-0.00	-0.00	0.01	-0.02	-0.38	0.70
inc\$150,000 or more	0.00	-0.00	-0.00	0.01	-0.02	-0.39	0.70
pidDemocrat	0.00	-0.01	-0.01	0.02	-0.01	-0.24	0.81
pidRepublican	0.00	0.04	0.04	0.02	0.09	1.82	0.07
pidIndependent	0.00	-0.03	-0.03	0.02	-0.09	-1.78	0.07
pidSomething else	0.00	-0.00	-0.00	0.00	-0.07	-1.40	0.16
educHS grad	0.00	-0.01	-0.01	0.01	-0.05	-1.06	0.29
educSome college	0.00	0.00	0.00	0.02	0.01	0.19	0.85
educAssociate	0.00	-0.00	-0.00	0.01	-0.01	-0.20	0.84
educBachelor's	0.00	0.02	0.02	0.02	0.04	0.77	0.44
educMaster's	0.00	-0.00	-0.00	0.02	-0.01	-0.26	0.79
age	0.00	0.03	0.03	0.56	0.00	0.06	0.95

Table 3: Balance Across Covariates

chisquare	df	p.value
22.78	27.00	0.70

Table 4: Chi-squared test

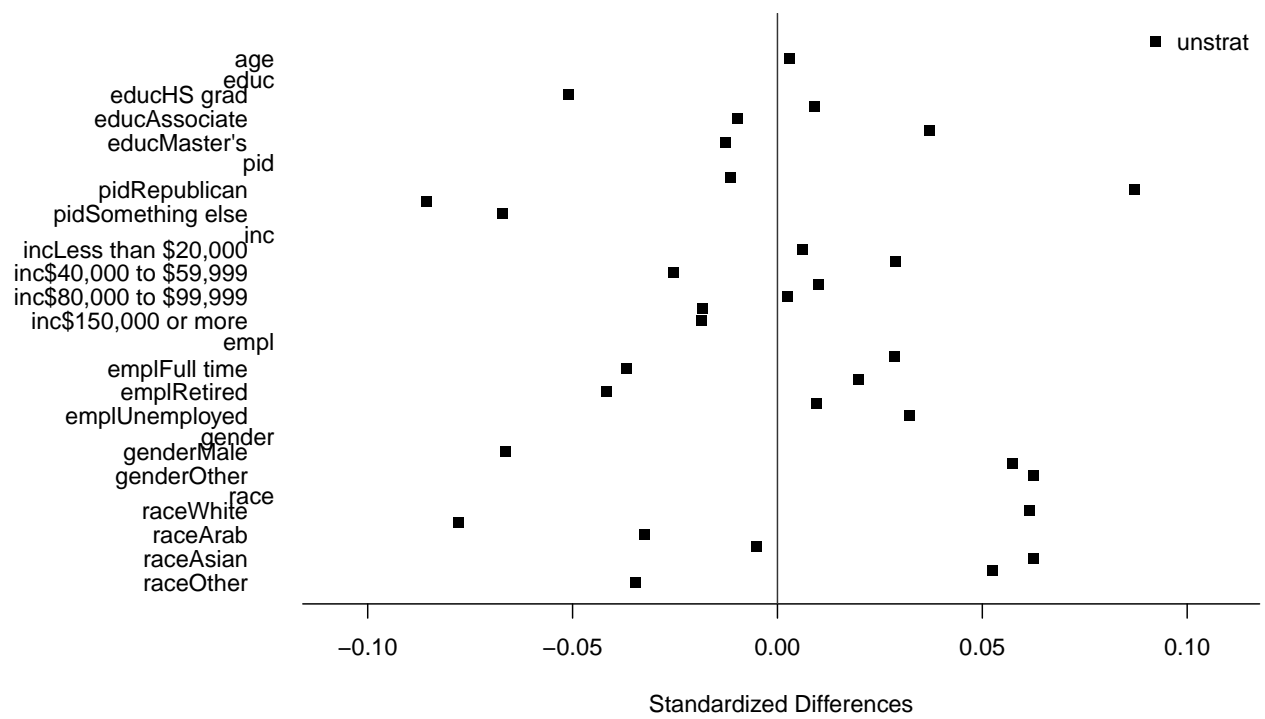


Figure 1: Balance Plot