Process mech part 1 - vary time, white men, demo first (slow validation)

ddd

5/25/2021

R Markdown

```
## Warning: Expected 2 pieces. Additional pieces discarded in 15 rows [3020, 3929,
## 5391, 7883, 8569, 10708, 11628, 11988, 12360, 14169, 14762, 19758, 20779, 22097,
## 22562].
```

```
## Warning: Expected 2 pieces. Missing pieces filled with `NA` in 24030 rows [1, 2,
## 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, ...].
```

```
## Warning: Expected 3 pieces. Missing pieces filled with `NA` in 9317 rows [2313,
## 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326,
## 2327, 2328, 2329, 2330, 2331, 2332, ...].
```

```
## [1] 753
```

```
## [1] 3001
```

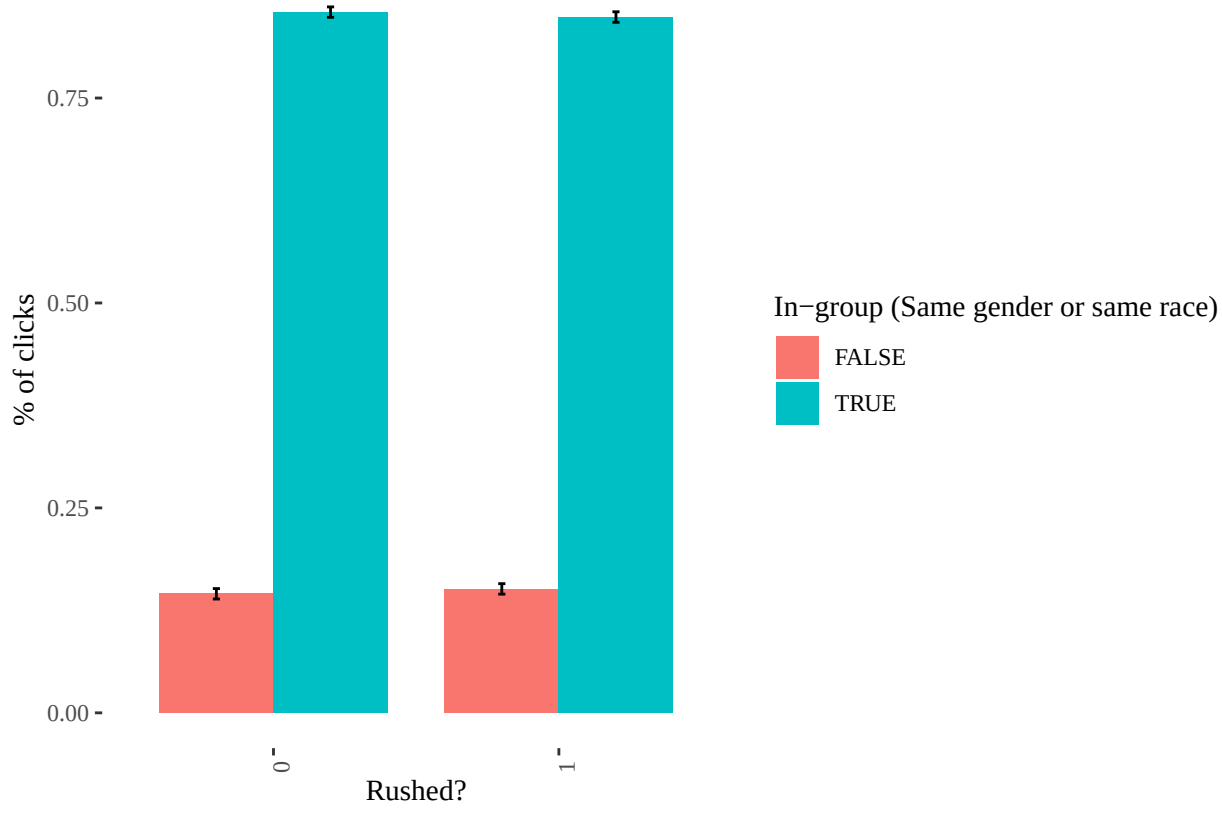
```
##
##                Female       Male Non Binary       Test
##          0          0          1          0          0
```

```
## [1] 38.83001
```

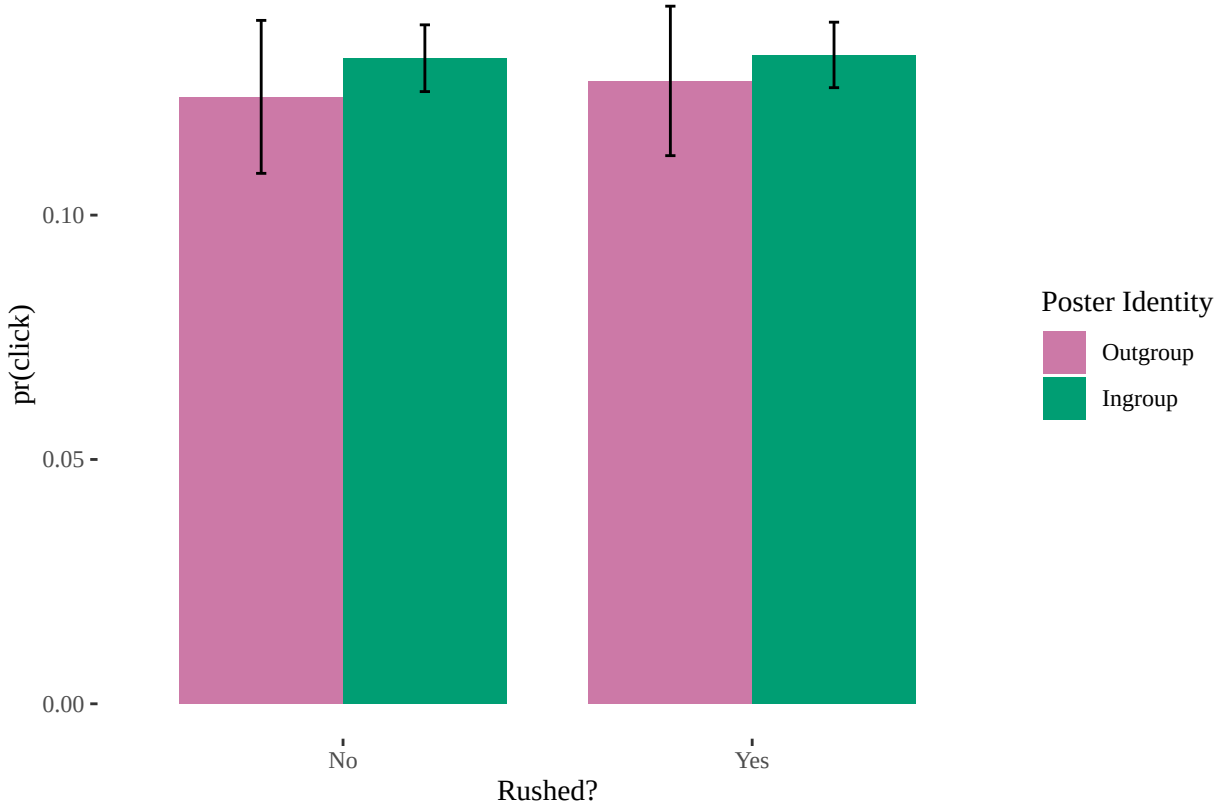
```
##
## White
##     1
```

```
##
## less.than.bachelors           bachelors more.than.bachelors
##           0.4369190           0.3691899           0.1938911
```

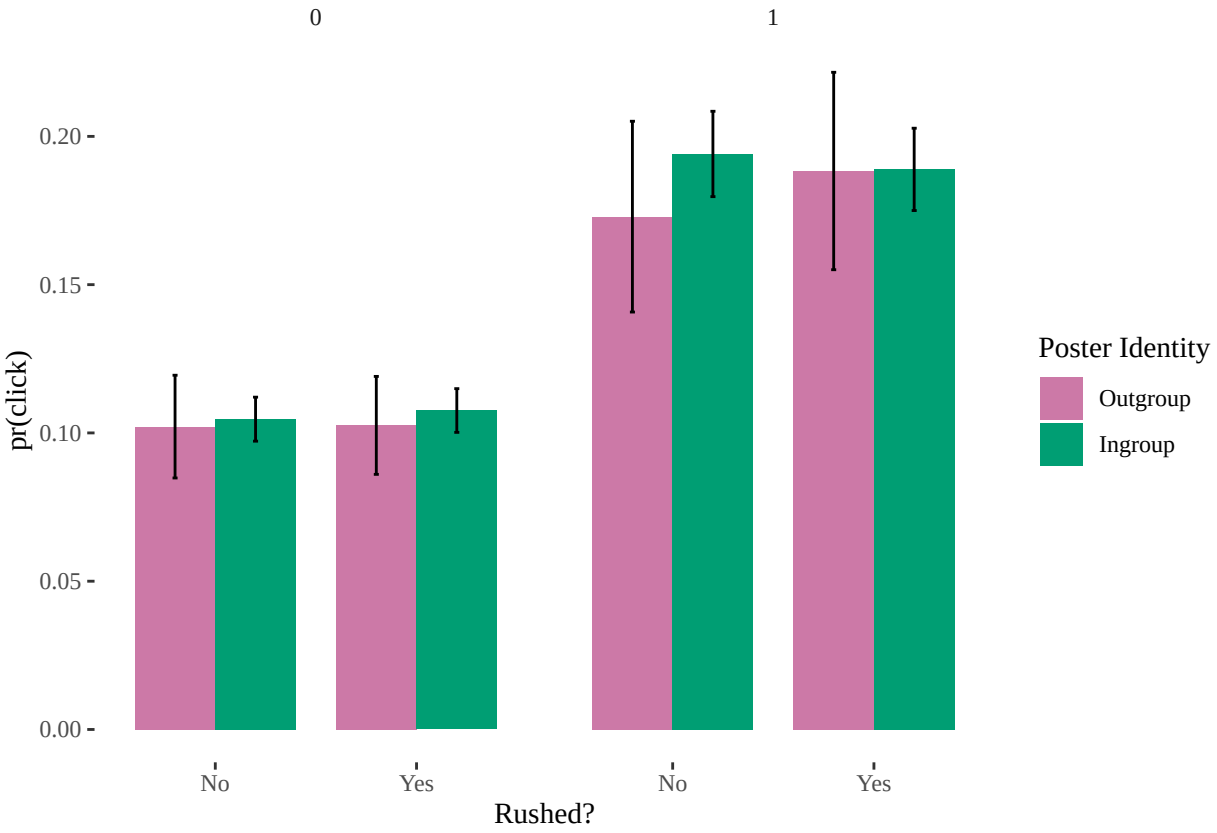
```
## `summarise()` regrouping output by 'timed' (override with `.groups` argument)
```




```
## `summarise()` regrouping output by 'timed' (override with `.groups` argument)
```




```
## `summarise()` regrouping output by 'timed', 'in.group.lax' (override with `.groups` argument)
```

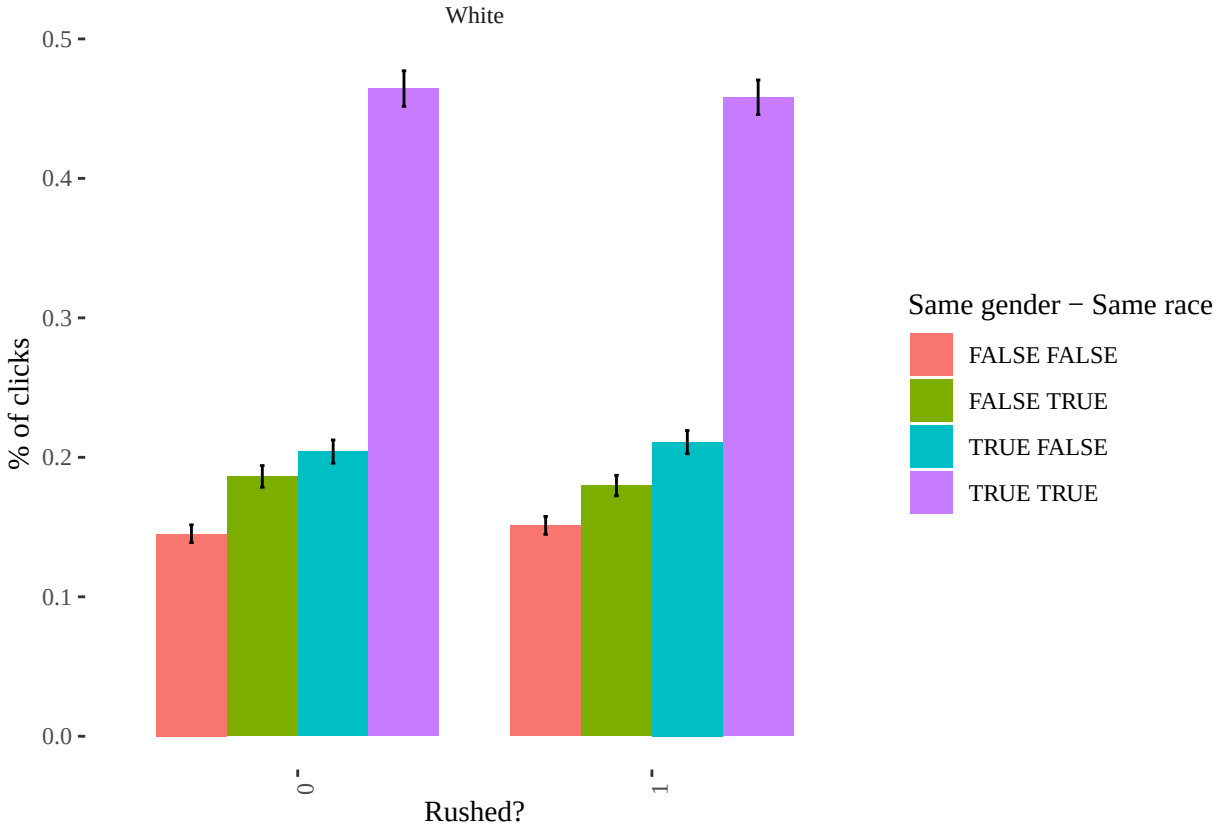


% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu
% Date and time: Sat, Feb 19, 2022 - 20:13:30

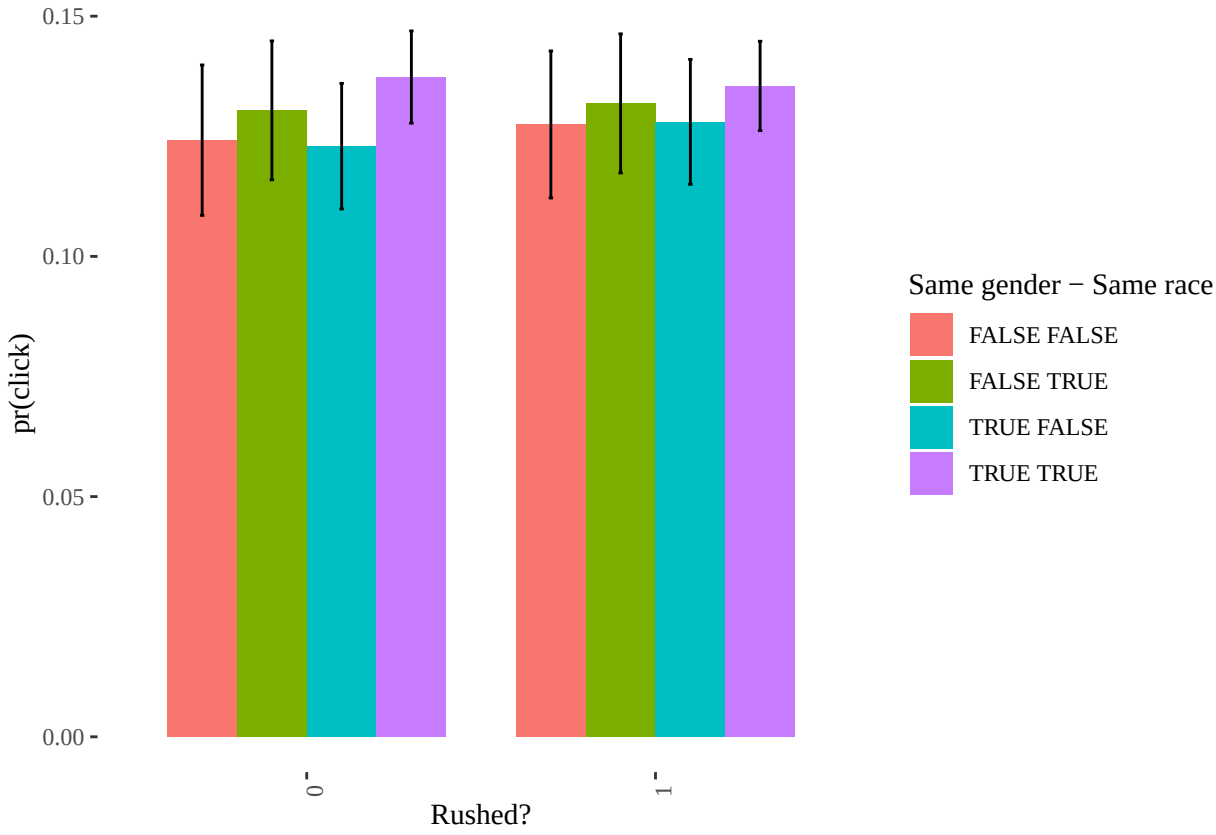
Table 1:

	Dependent variable:
	clicked
in.group.lax	0.005
	(0.009)
deliberate	−0.003
	(0.011)
in.group.laxTRUE:deliberate	0.003
	(0.012)
Constant	0.127***
	(0.008)
Observations	22,833
R^2	0.0001
Adjusted R^2	−0.0001
Residual Std. Error	0.338 (df = 22829)
F Statistic	0.410 (df = 3; 22829)
Note:	*p<0.1; **p<0.05; ***p<0.01

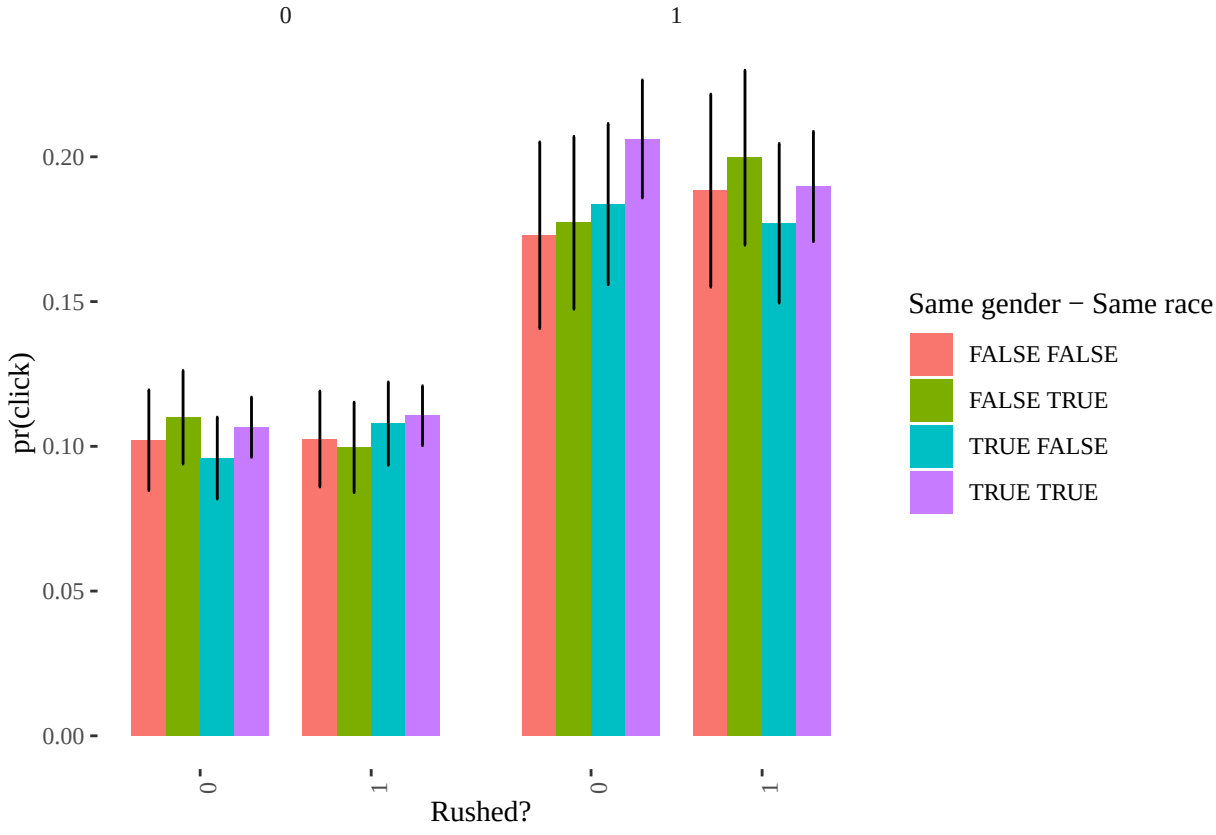
```
## `summarise()` regrouping output by 'timed', 'race.simple' (override with `.groups` argument)
```



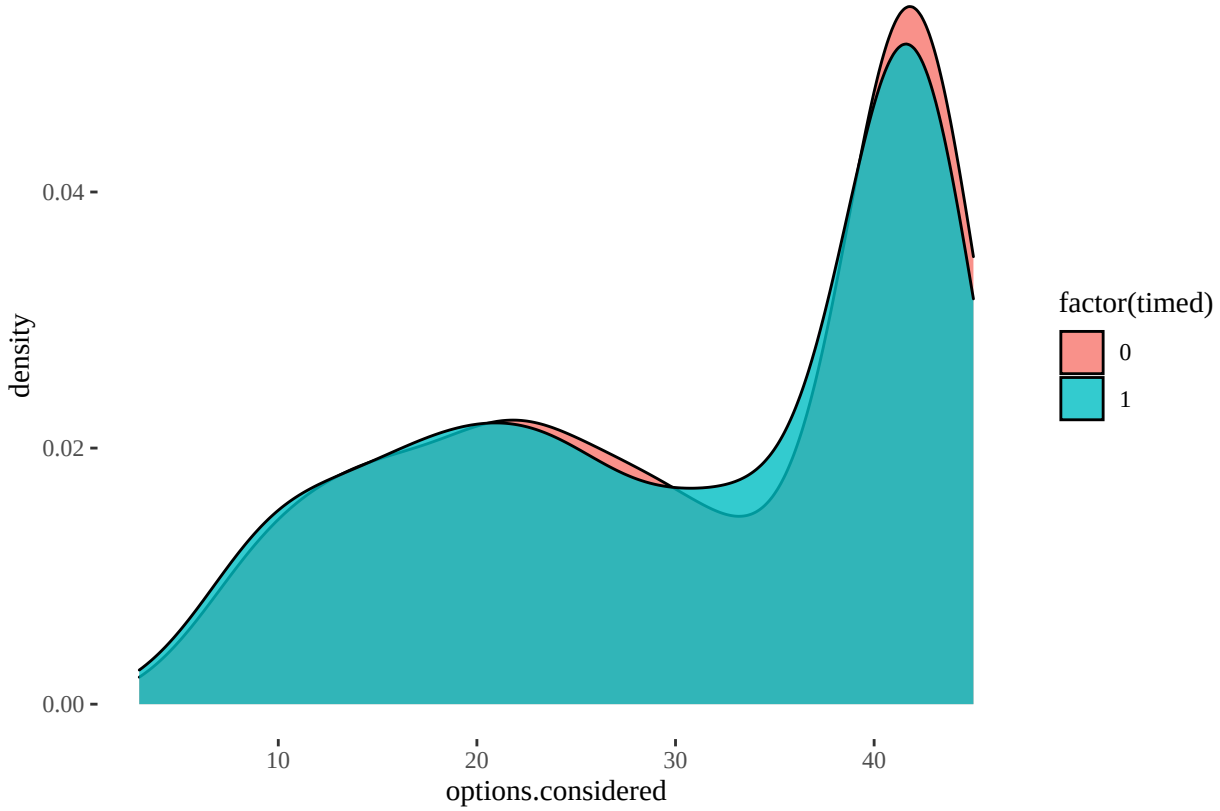

```
## `summarise()` regrouping output by 'timed' (override with `.groups` argument)
```



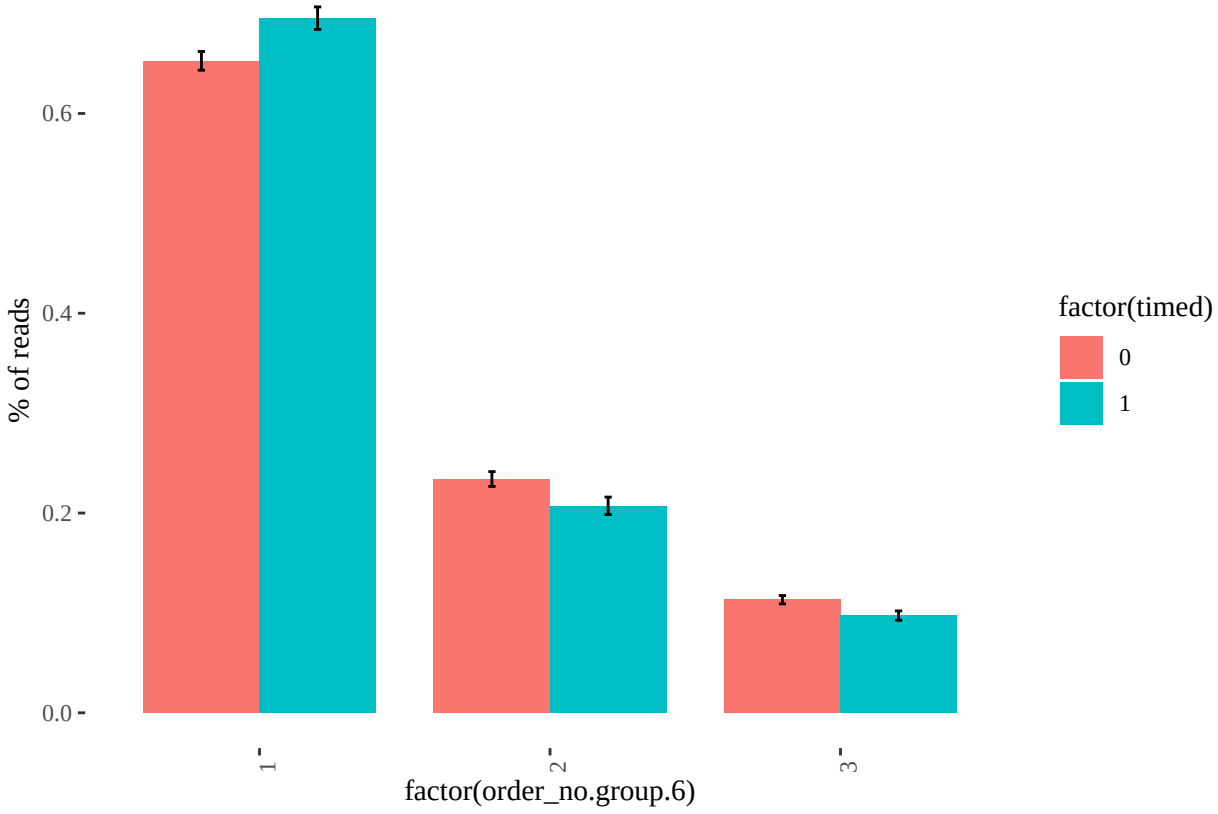

```
## `summarise()` regrouping output by 'timed', 'group.combo' (override with `.groups` argument)
```



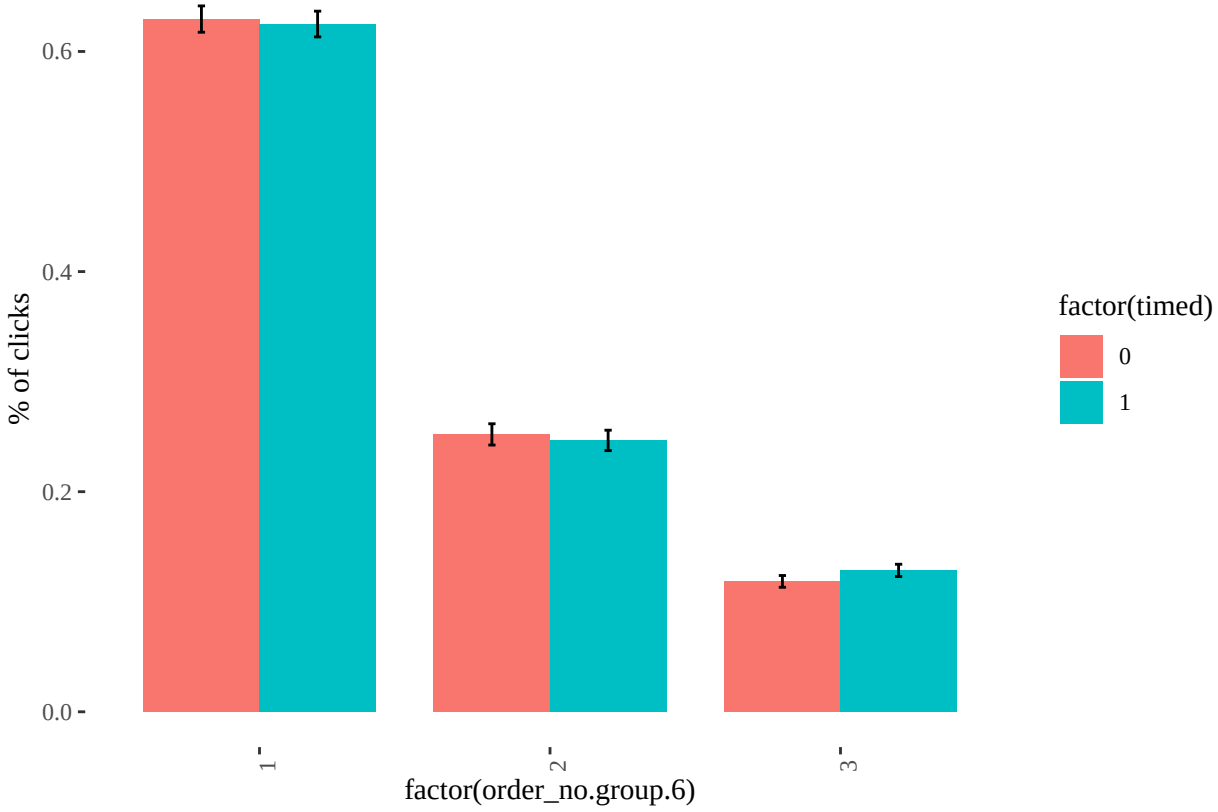
```
## `summarise()` regrouping output by 'timed' (override with `.groups` argument)
```



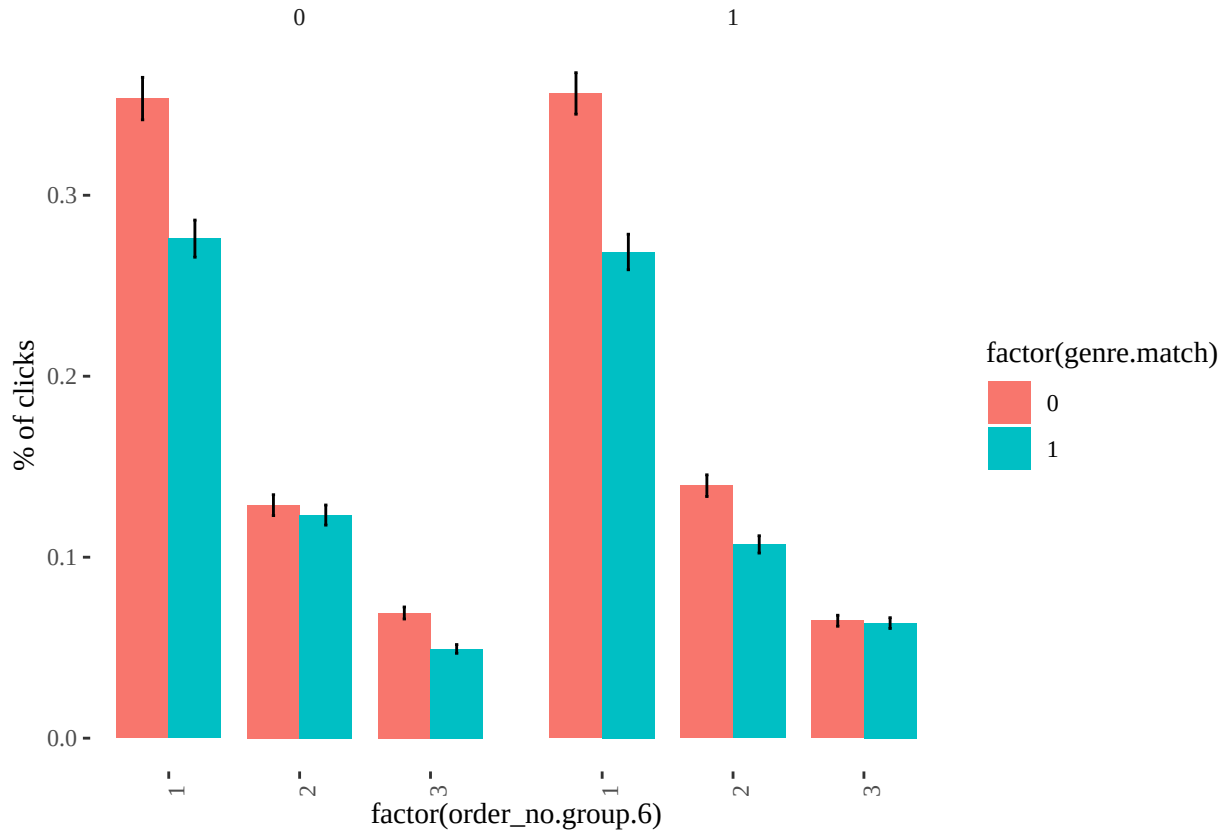

```
## `summarise()` regrouping output by 'timed' (override with `.groups` argument)
```



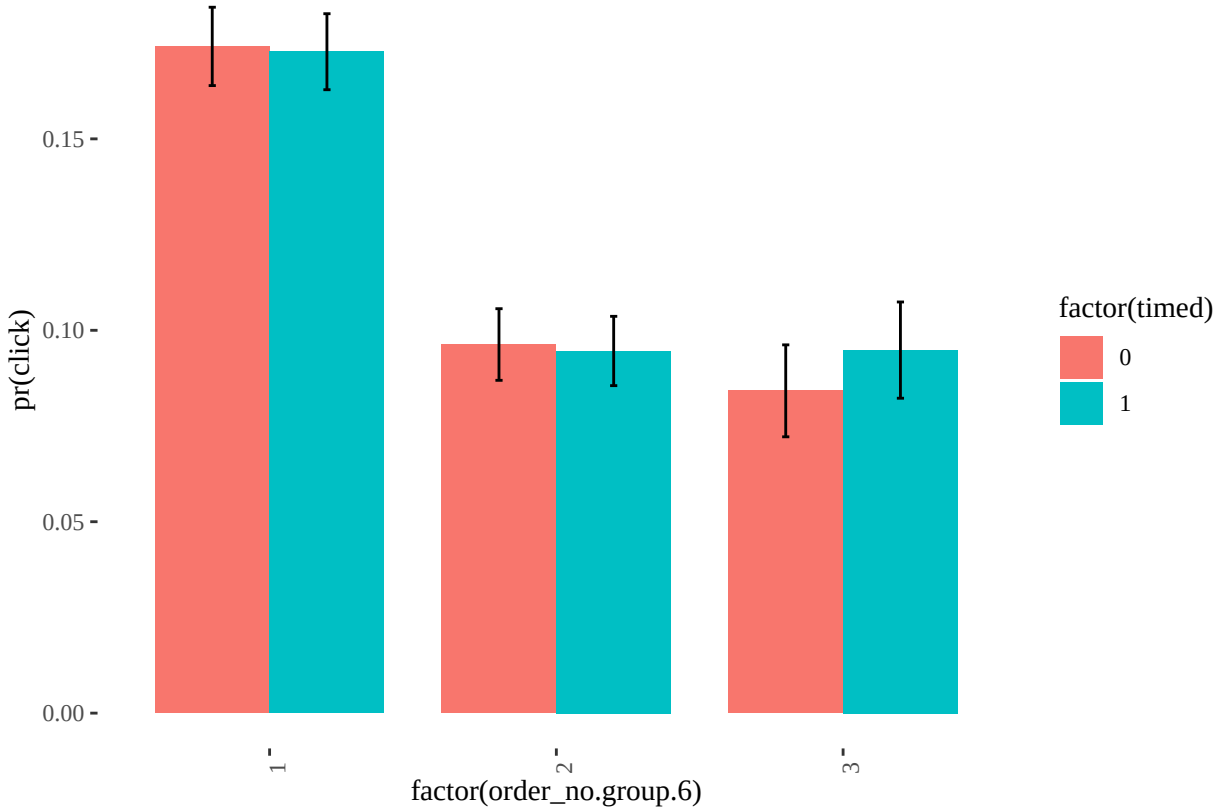

```
## `summarise()` regrouping output by 'timed' (override with `.groups` argument)
```



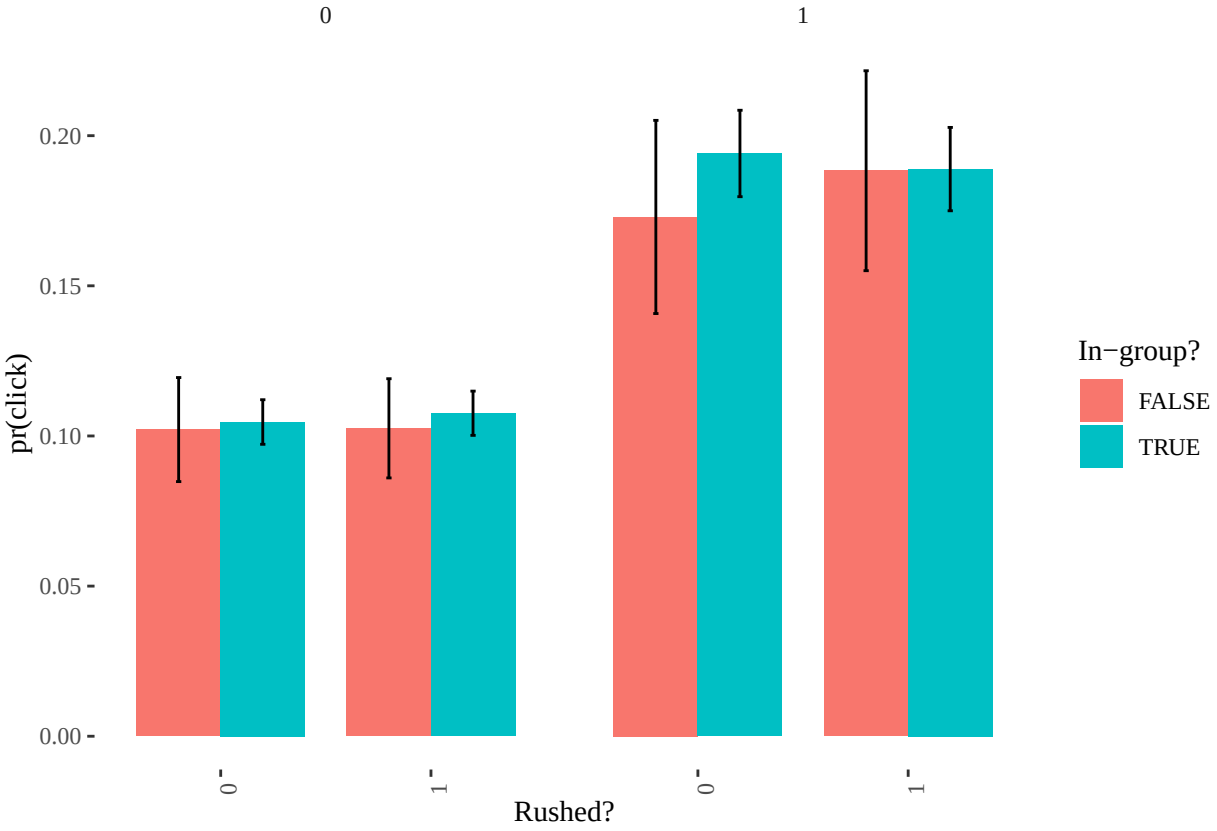

```
## `summarise()` regrouping output by 'timed', 'order_no.group.6' (override with `.groups` argument)
```



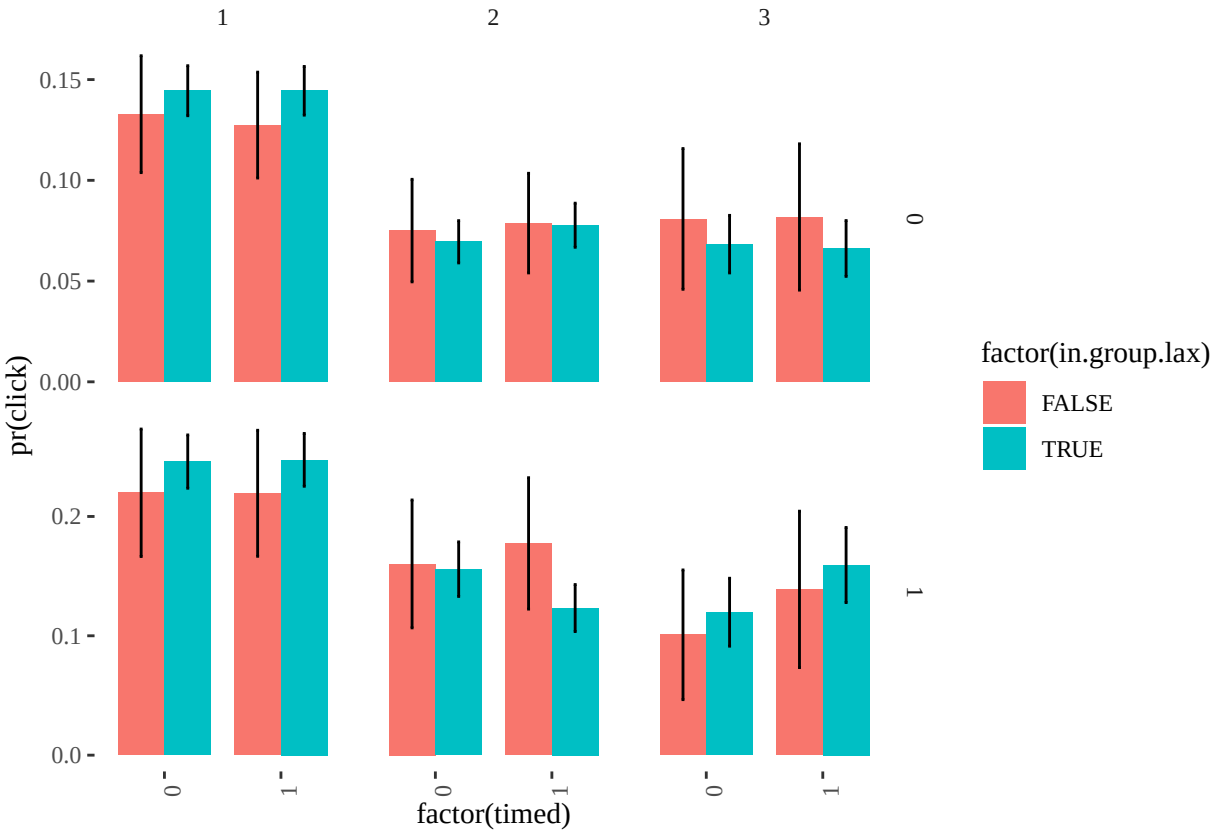

```
## `summarise()` regrouping output by 'timed' (override with `.groups` argument)
```



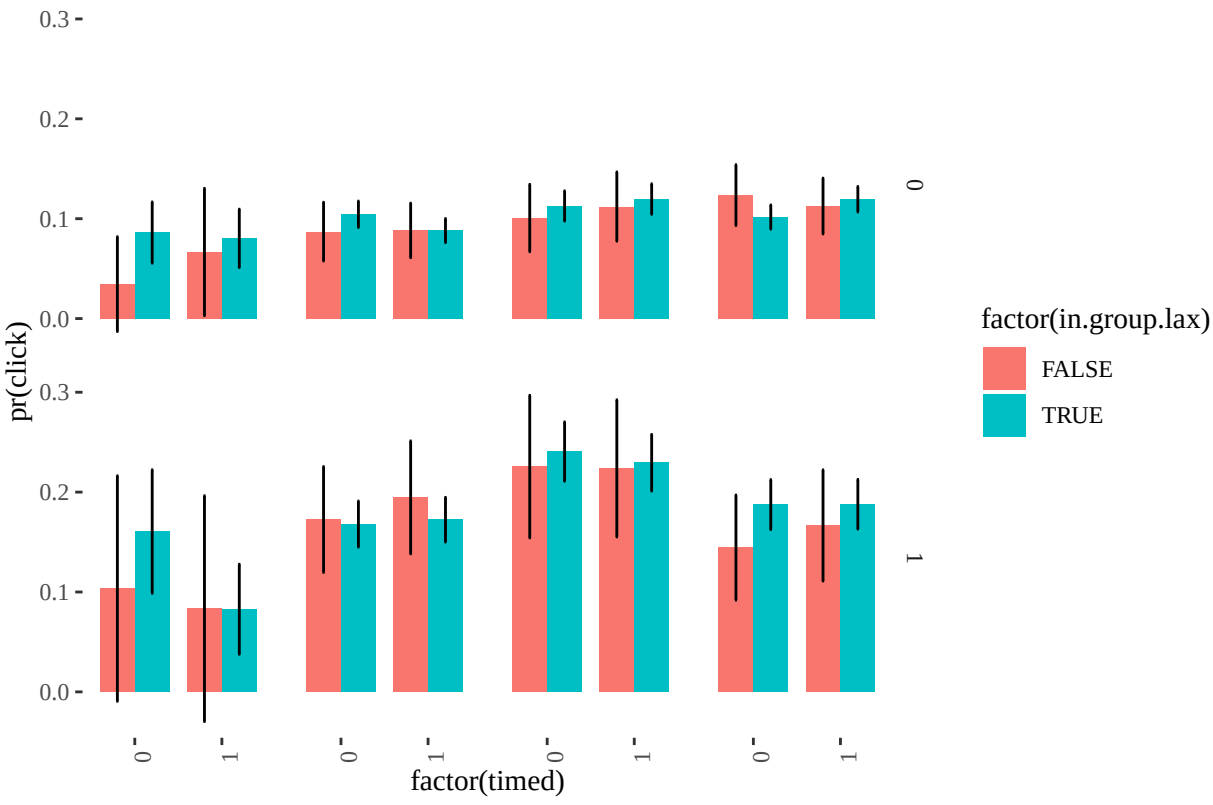
```
## `summarise()` regrouping output by 'timed', 'in.group.lax' (override with `.groups` argument)
```



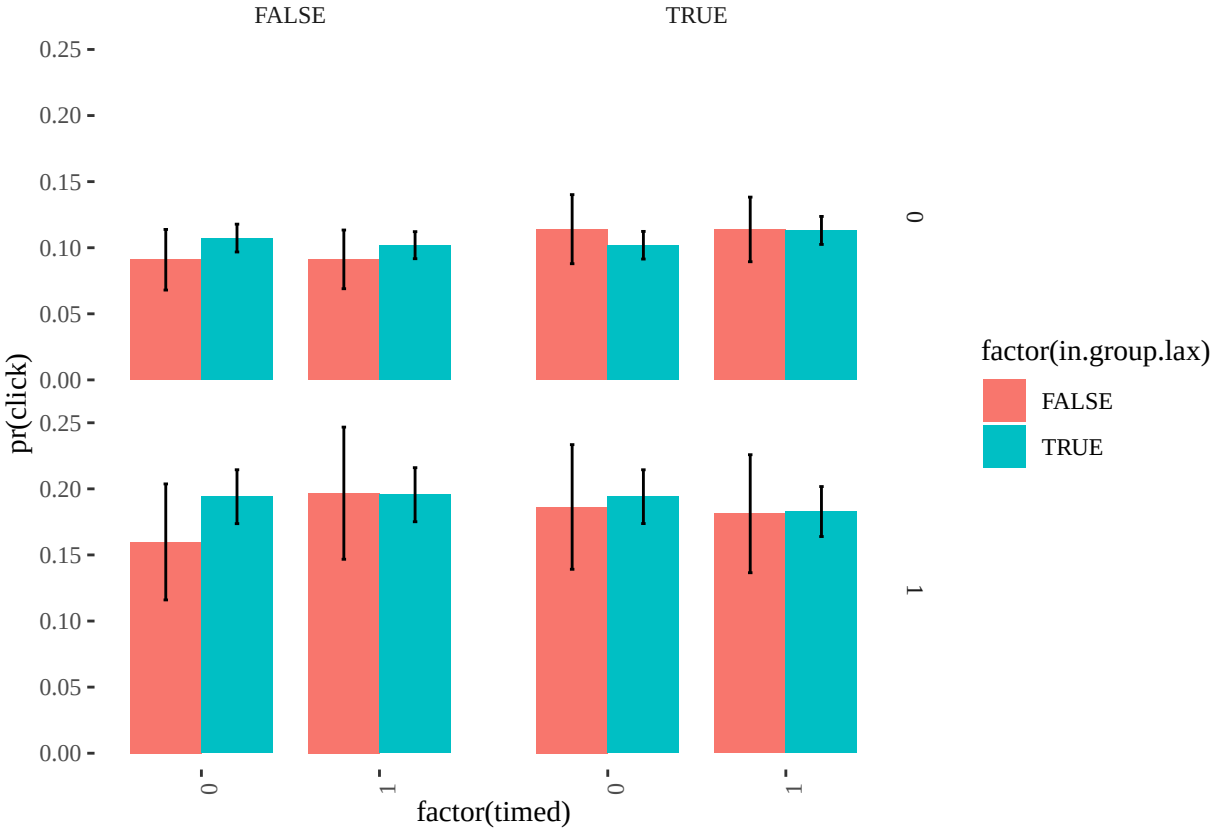

```
## `summarise()` regrouping output by 'timed', 'in.group.lax', 'order_no.group.6' (override with `.grou
```



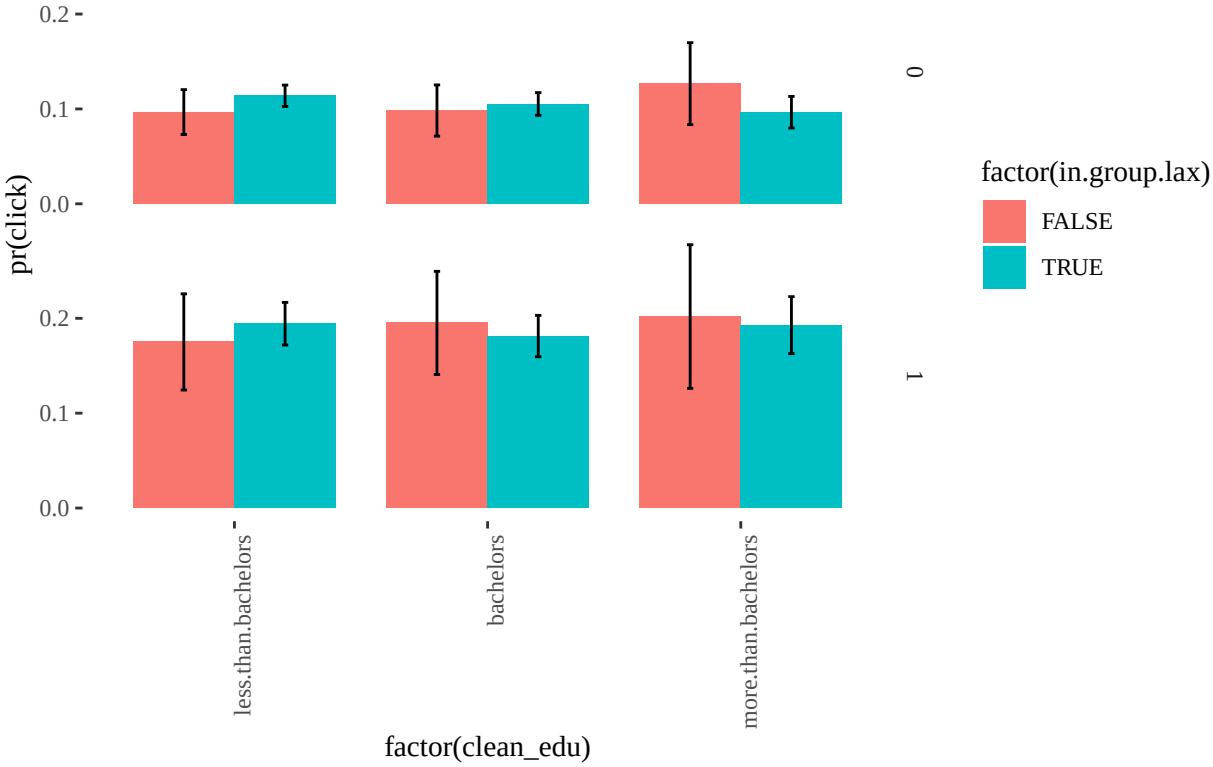

```
## `summarise()` regrouping output by 'timed', 'in.group.lax', 'genre.match' (override with `.groups` a
```



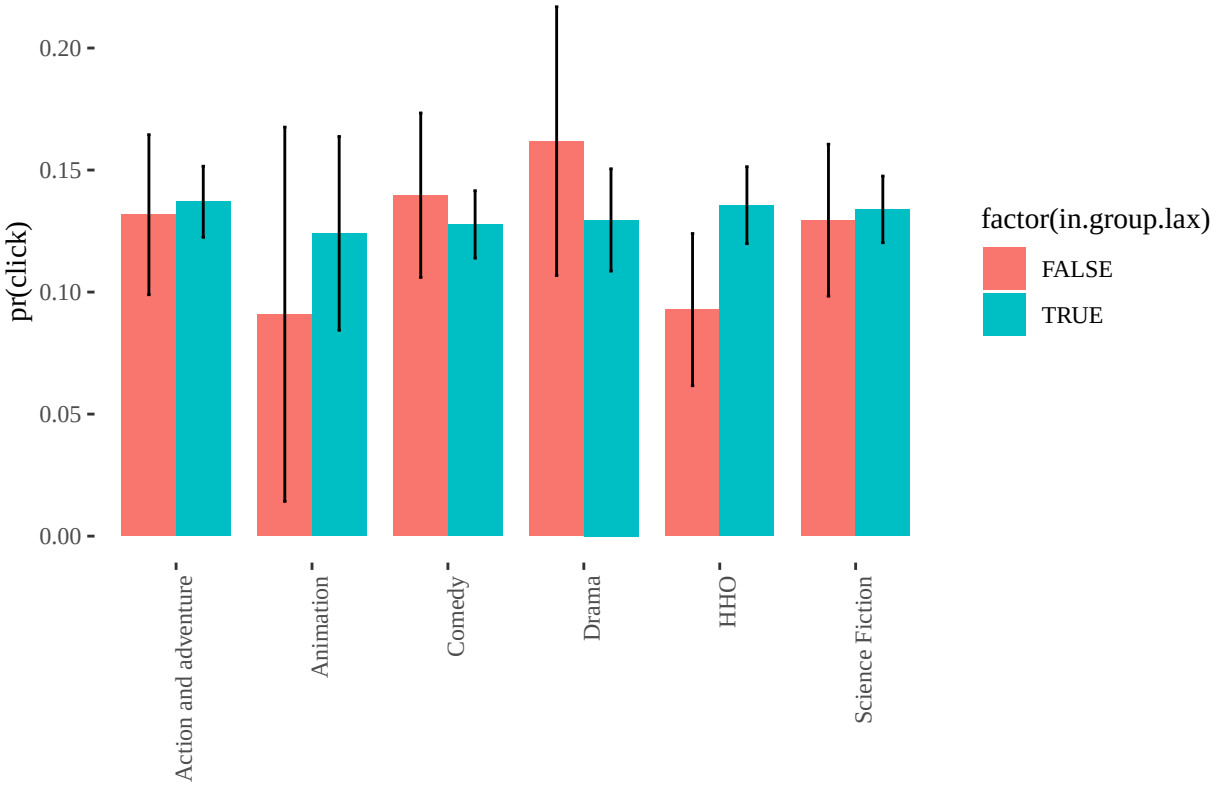
```
## `summarise()` regrouping output by 'timed', 'in.group.lax', 'older.age' (override with `.groups` argu
```

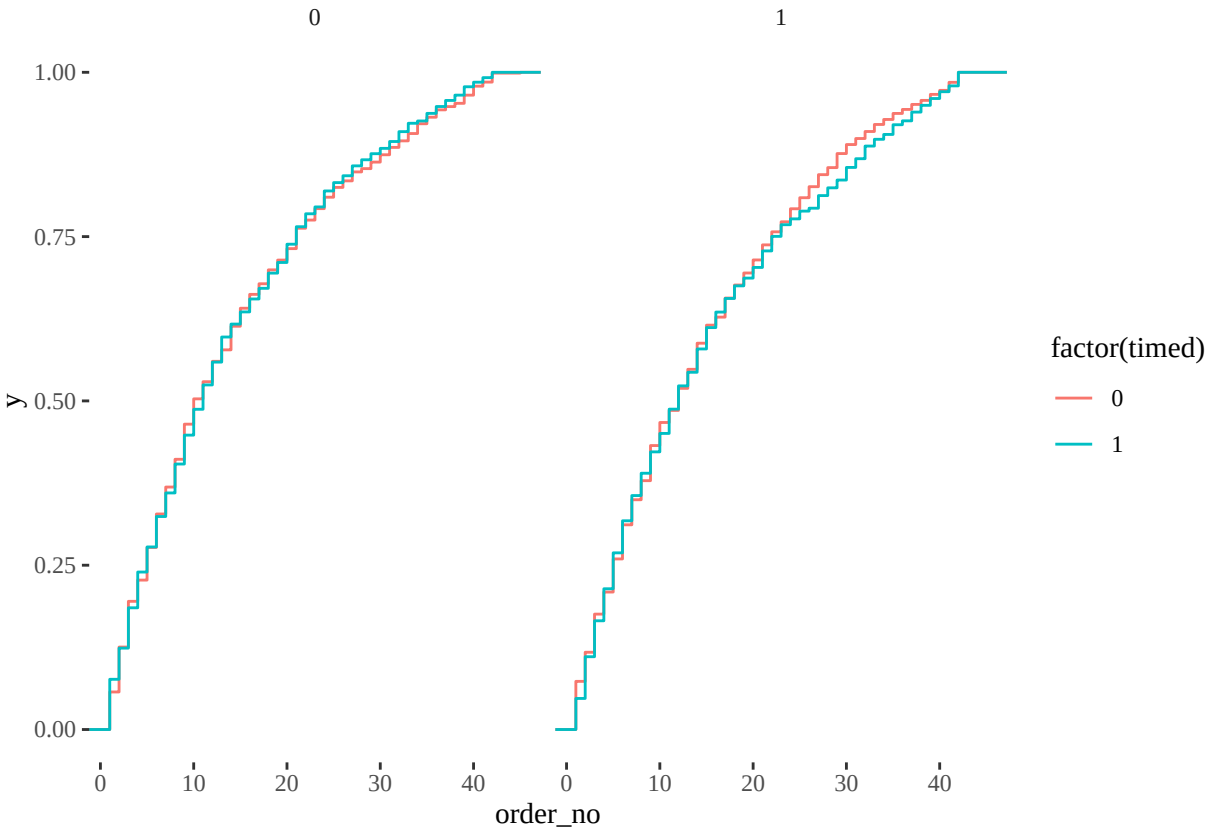



```
## `summarise()` regrouping output by 'in.group.lax', 'genre.match' (override with `.groups` argument)
```

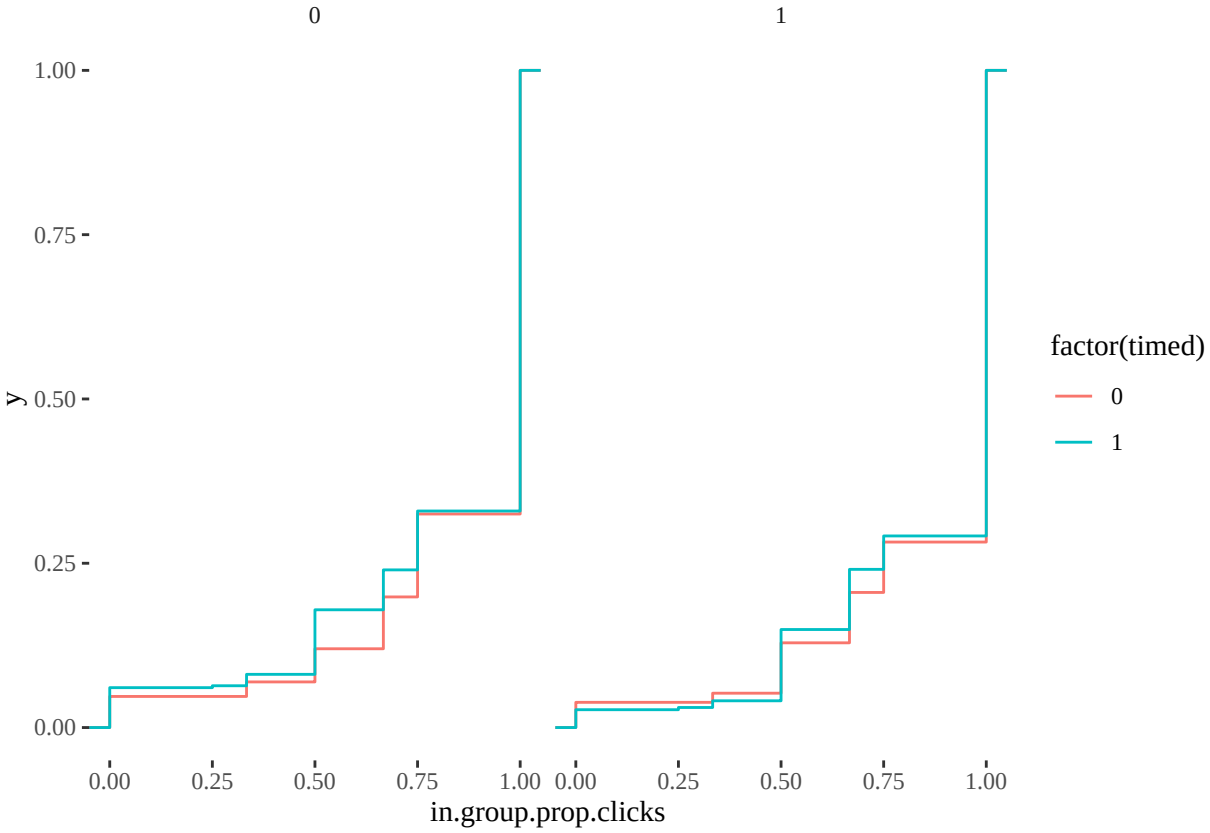


```
## `summarise()` regrouping output by 'in.group.lax' (override with `.groups` argument)
```

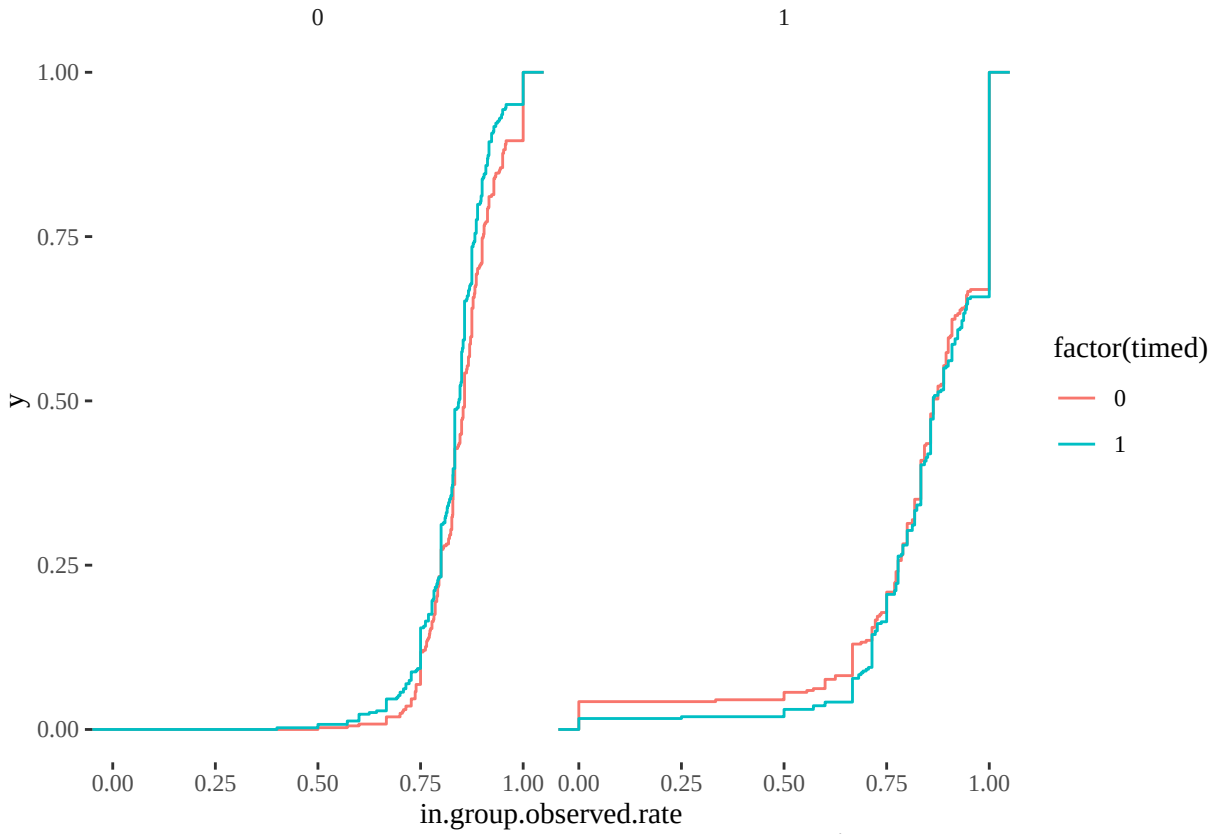


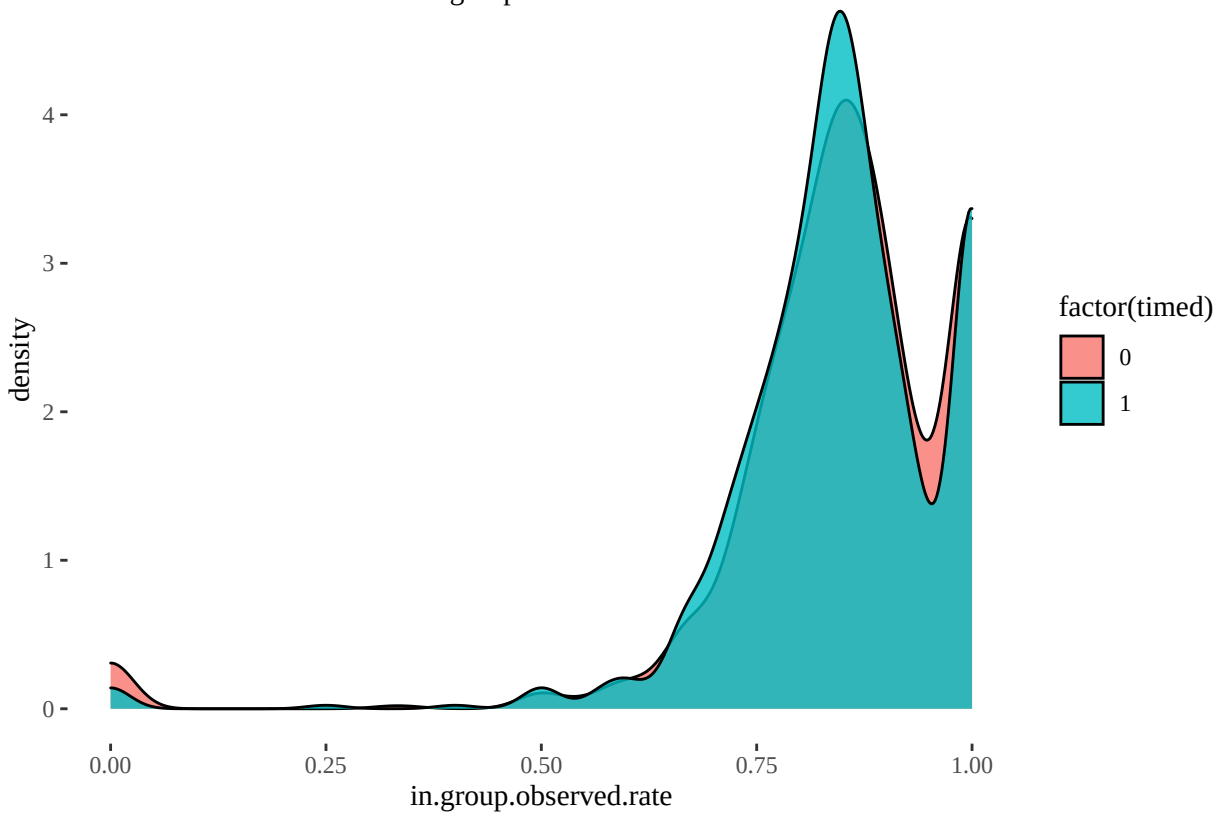


```
## `summarise()` regrouping output by 'user_id', 'timed' (override with `.groups` argument)
```

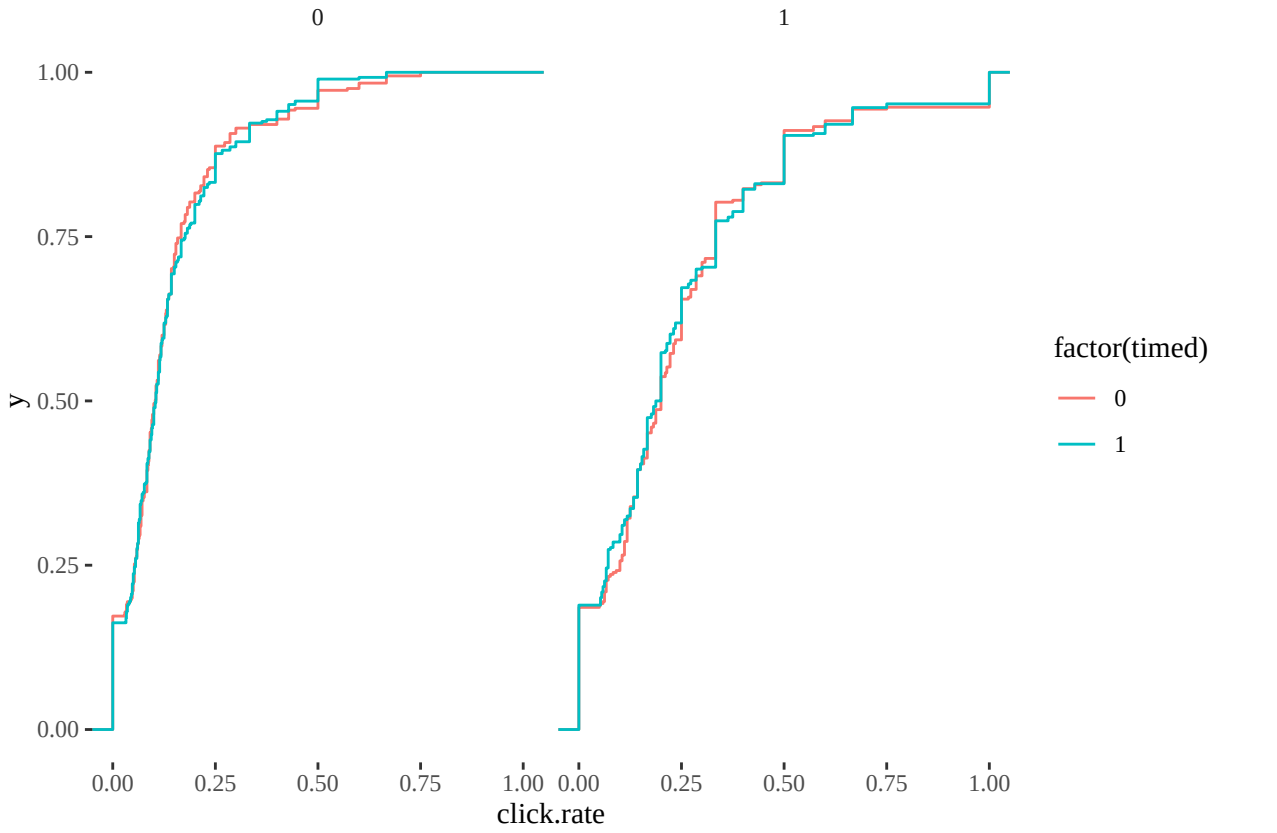



```
## `summarise()` regrouping output by 'user_id', 'timed' (override with `.groups` argument)
```

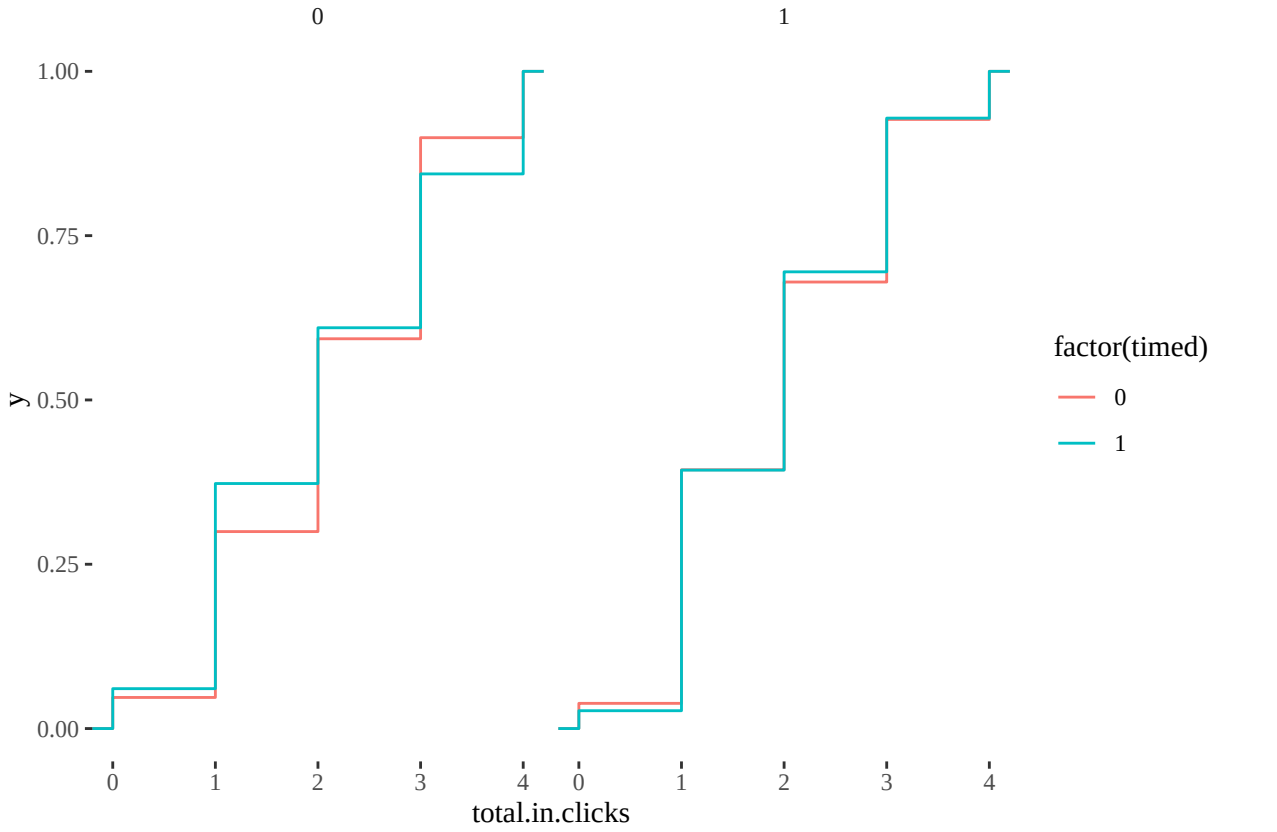




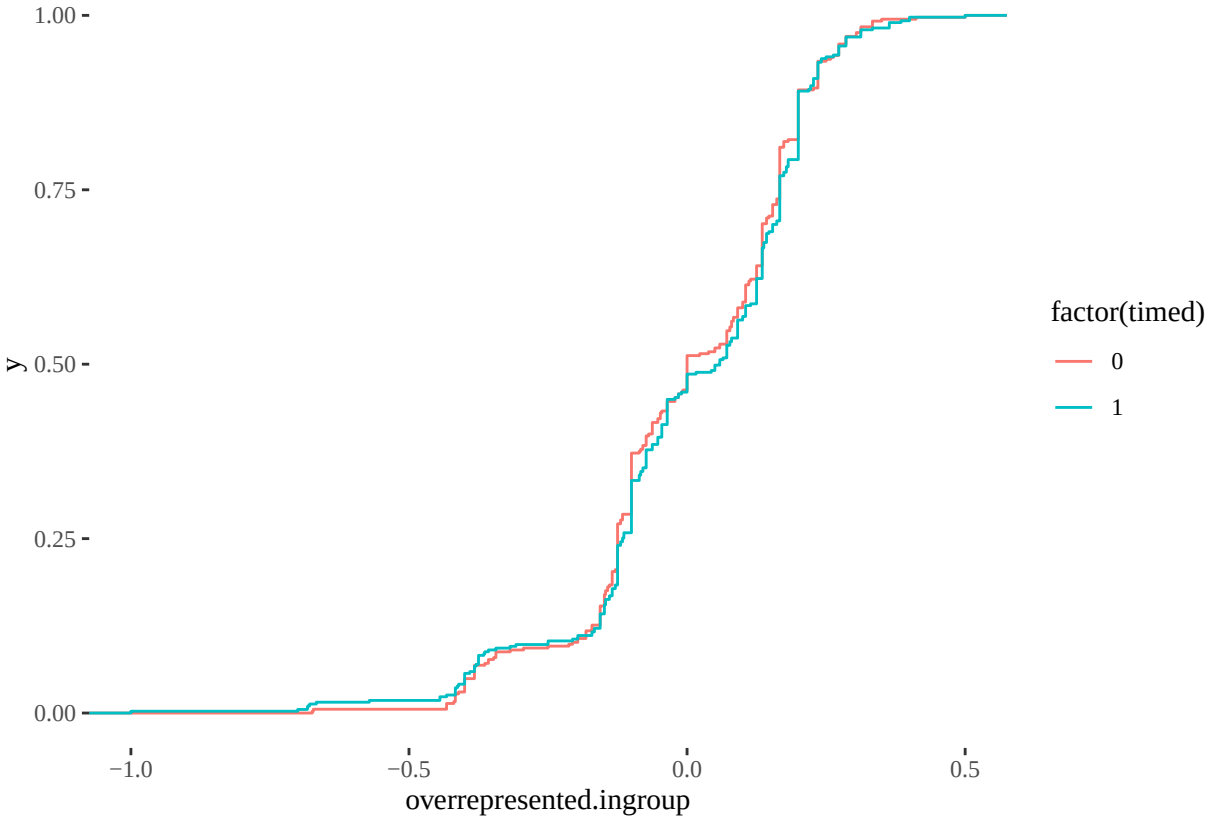

```
## `summarise()` regrouping output by 'user_id', 'timed' (override with `.groups` argument)
```



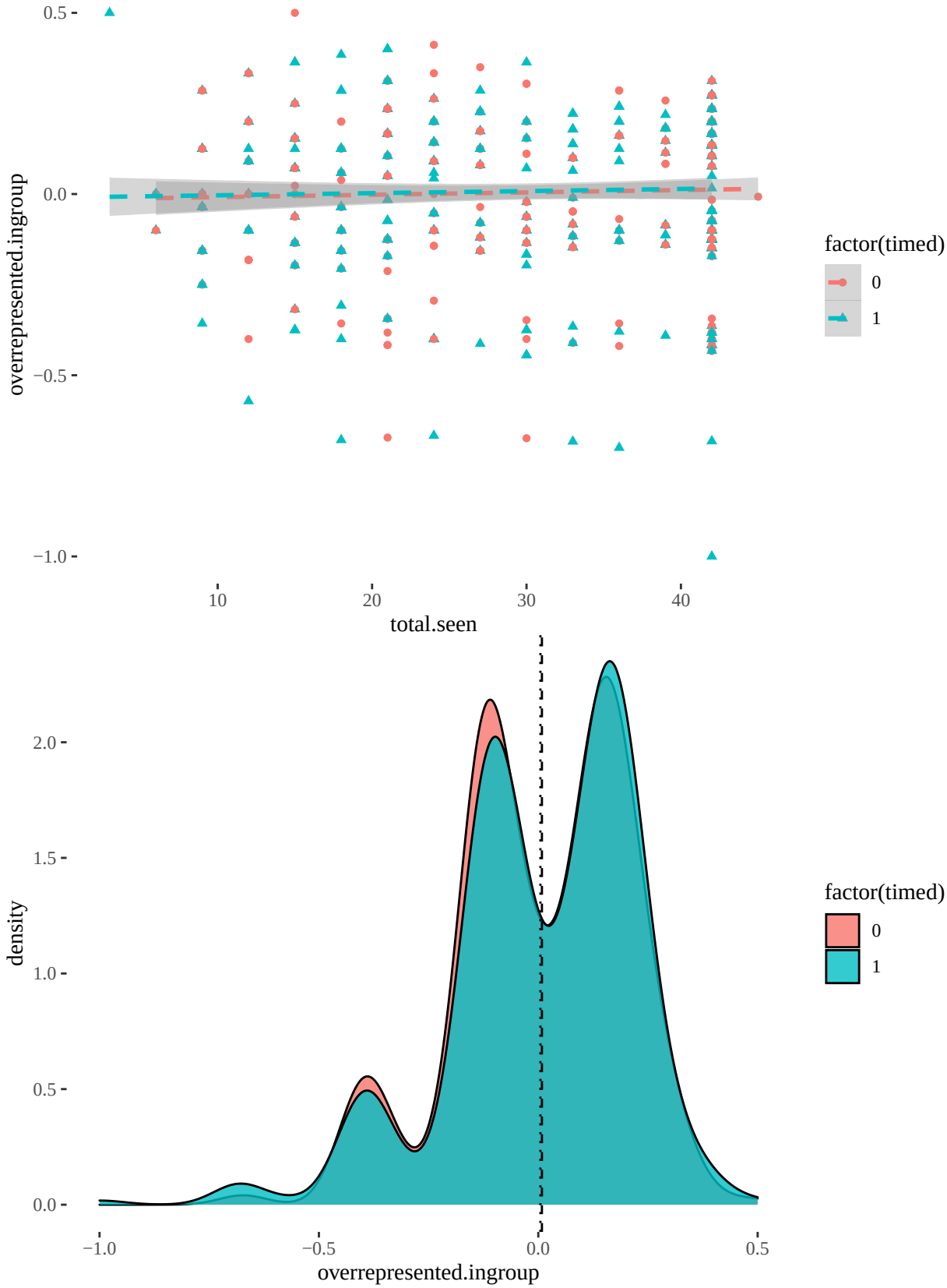

```
## `summarise()` regrouping output by 'user_id', 'timed' (override with `.groups` argument)
```

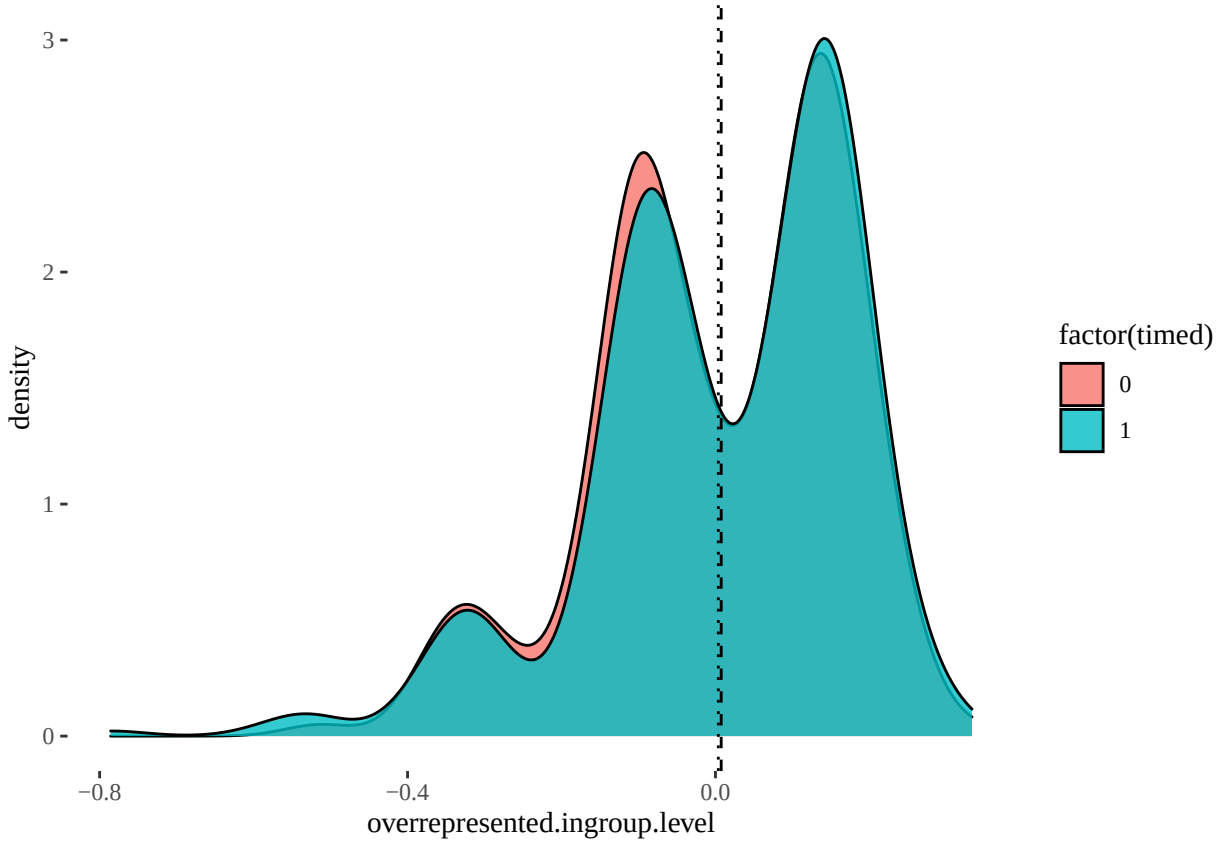


```
## `summarise()` regrouping output by 'user_id' (override with `.groups` argument)
## `summarise()` regrouping output by 'user_id' (override with `.groups` argument)
```




```
## `geom_smooth()` using formula 'y ~ x'
```


0.5
0.0
−0.5
−1.0
overrepresented.ingroup
10
20
30
40
total.seen
factor(timed)
0
1
2.0
1.5
1.0
0.5
0.0
density
−1.0
−0.5
0.0
0.5
overrepresented.ingroup
factor(timed)
0
1

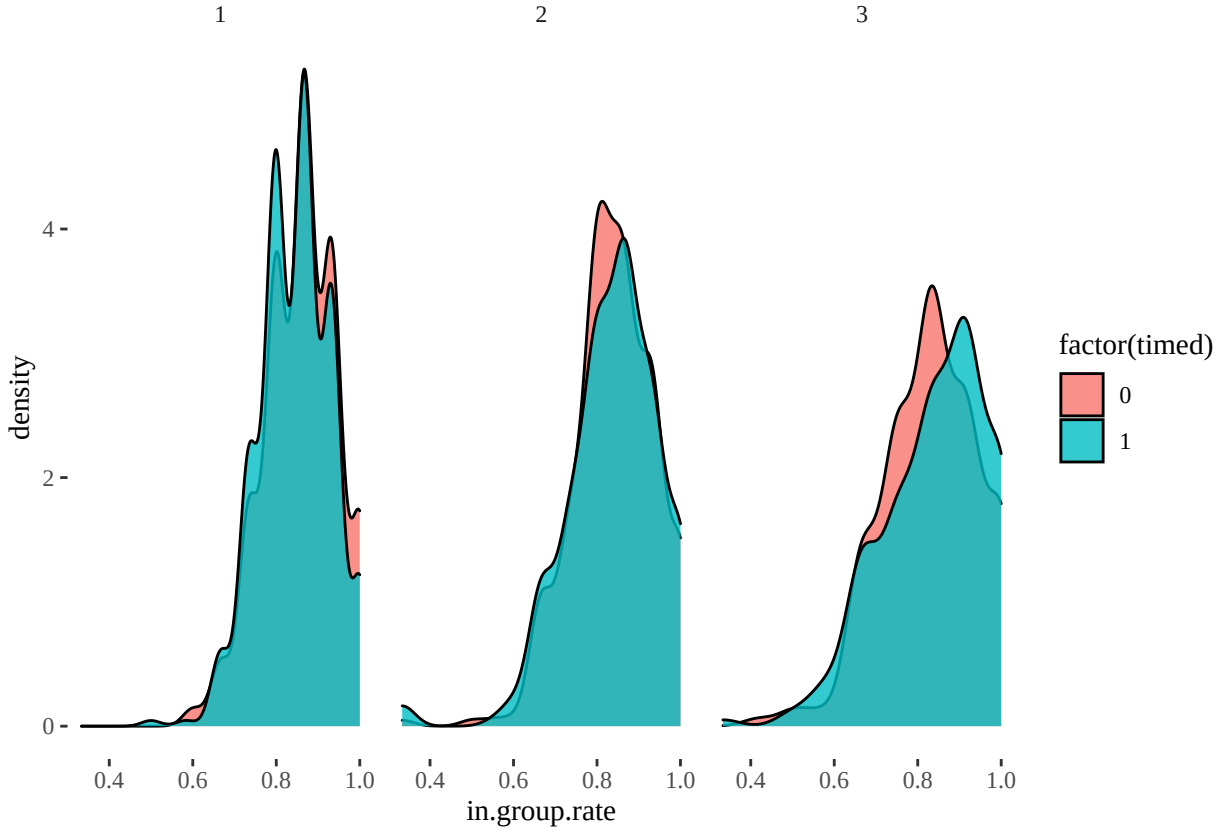



```
##
## Call:
## lm(formula = in.group.selected ~ timed * in.group.observed, data = l.dat)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.78724 -0.11045  0.01532  0.13384  0.34429
##
## Coefficients:
##                          Estimate Std. Error t value Pr(>|t|)
## (Intercept)               0.06182    0.12571   0.492    0.623
## timed                    -0.14271    0.17313  -0.824    0.410
## in.group.observed         0.93173    0.14735   6.323 4.41e-10 ***
## timed:in.group.observed   0.17316    0.20395   0.849    0.396
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1662 on 748 degrees of freedom
## Multiple R-squared:  0.1196, Adjusted R-squared:  0.116
## F-statistic: 33.86 on 3 and 748 DF,  p-value: < 2.2e-16
```

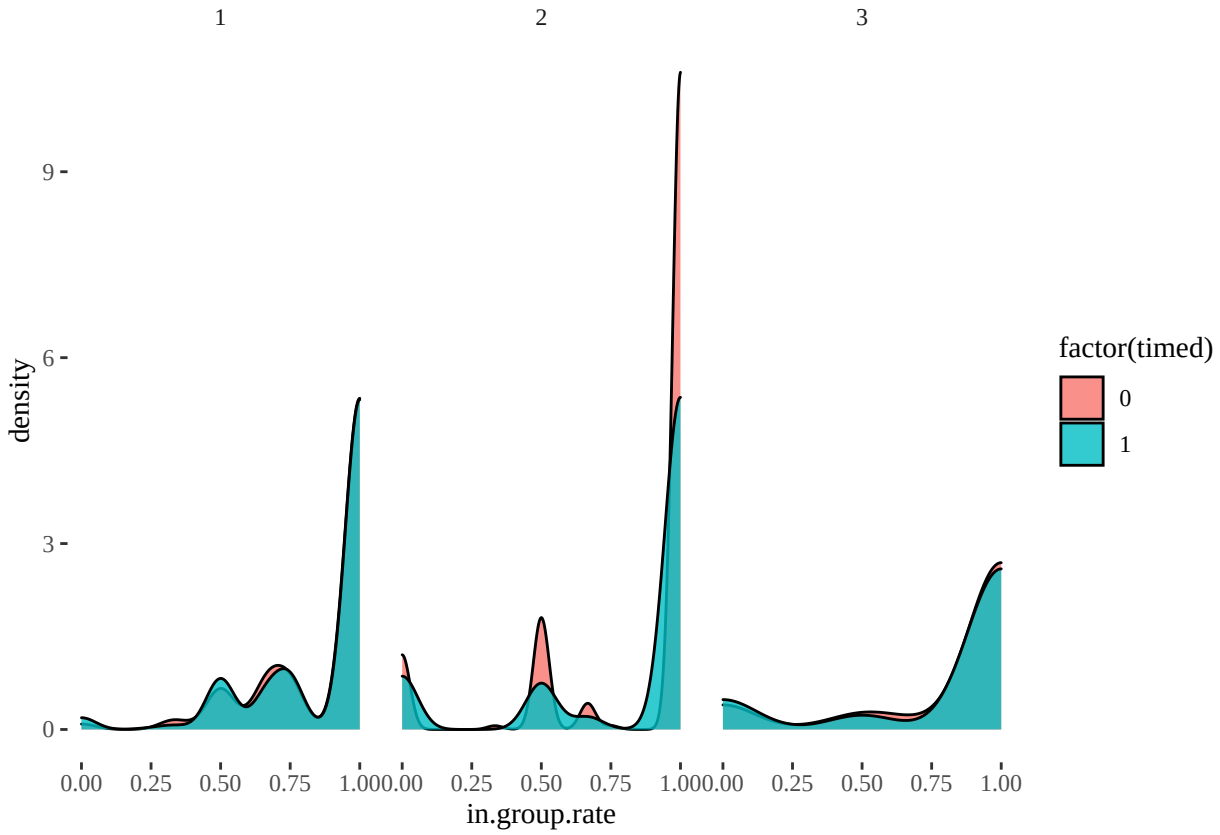
```
##
## Call:
## lm(formula = in.group.observed ~ timed, data = l.dat)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.34205 -0.03252  0.00607  0.03295  0.15795
```

```
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.851075   0.003119 272.886   <2e-16 ***
## timed       -0.009026   0.004348  -2.076   0.0382 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.05958 on 750 degrees of freedom
## Multiple R-squared:  0.005714,   Adjusted R-squared:  0.004389
## F-statistic:  4.31 on 1 and 750 DF,  p-value: 0.03822
```

```
## `summarise()` regrouping output by 'user_id', 'timed' (override with `.groups` argument)
```




```
## `summarise()` regrouping output by 'user_id', 'timed' (override with `.groups` argument)
```



readmore_presses

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu
% Date and time: Sat, Feb 19, 2022 - 20:13:50

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu
% Date and time: Sat, Feb 19, 2022 - 20:13:50

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu
% Date and time: Sat, Feb 19, 2022 - 20:13:50

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu
% Date and time: Sat, Feb 19, 2022 - 20:13:50

user.dta %>% group_by(test_timed) %>% summarise(mean(as.numeric(feedback_relay), na.rm = T))

user.dta %>% group_by(test_timed) %>% summarise(mean(as.numeric(feedback_satisfied), na.rm = T))

```
## Warning in randomForest.default(trainx[idx != i, , drop = FALSE], trainy[idx !
## = : The response has five or fewer unique values. Are you sure you want to do
## regression?
```

```
## Warning in randomForest.default(trainx[idx != i, imp.idx, drop = FALSE], :
## The response has five or fewer unique values. Are you sure you want to do
## regression?
```

```
## Warning in randomForest.default(trainx[idx != i, imp.idx, drop = FALSE], :
## The response has five or fewer unique values. Are you sure you want to do
## regression?
```

```
## Warning in randomForest.default(trainx[idx != i, imp.idx, drop = FALSE], :
```

Table 2:

	Dependent variable:	
	clicked	
	Slow	Fast
	(1)	(2)
rec_genderMale	0.007	0.004
	(0.009)	(0.009)
rec_raceBlack	−0.010	−0.006
	(0.018)	(0.018)
rec_raceHispanic	−0.005	−0.004
	(0.012)	(0.012)
rec_genderMale:rec_raceBlack	−0.0002	0.004
	(0.021)	(0.021)
rec_genderMale:rec_raceHispanic	−0.013	−0.008
	(0.016)	(0.016)
Constant	0.130***	0.132***
	(0.007)	(0.007)
Observations	11,154	11,679
R^2	0.0004	0.0002
Adjusted R^2	−0.0001	−0.0003
Note:	*p<0.1; **p<0.05; ***p<0.01	

Table 3:

	Dependent variable:			
	clicked			
	Slow	Slow	Fast	Fast
	(1)	(2)	(3)	(4)
Same Race	0.006	0.007	0.004	0.002
	(0.011)	(0.011)	(0.011)	(0.011)
Same Gender	−0.001	−0.001	0.001	0.0005
	(0.011)	(0.011)	(0.010)	(0.010)
Preferred Genre		0.087***		0.082***
		(0.007)		(0.007)
Same Race x Same Gender	0.008	0.007	0.003	0.004
	(0.014)	(0.014)	(0.014)	(0.013)
Constant	0.124***	0.097***	0.127***	0.104***
	(0.008)	(0.008)	(0.008)	(0.008)
Observations	11,154	11,154	11,679	11,679
R^2	0.0003	0.014	0.0001	0.013
Adjusted R^2	0.0001	0.014	−0.0002	0.012
Note:				*p<0.1; **p<0.05; ***p<0.01

Table 4:

	Dependent variable:	
	clicked	
	Slow	Fast
	(1)	(2)
Same Race	0.011*	0.006
	(0.007)	(0.007)
Same Gender	0.004	0.002
	(0.007)	(0.007)
Constant	0.121***	0.126***
	(0.007)	(0.006)
Observations	11,154	11,679
R^2	0.0003	0.0001
Adjusted R^2	0.0001	−0.0001
Note:	*p<0.1; **p<0.05; ***p<0.01	

Table 5:

	Dependent variable:			
	clicked			
	Same Race	Same Gender	Race or Gender	Race and Gender
	(1)	(2)	(3)	(4)
in.group	0.012*			
	(0.007)			
same.gender		0.005		
		(0.007)		
in.group.lax			0.008	
			(0.009)	
in.group.strict				0.012*
				(0.006)
timed	0.004	0.002	0.003	0.003
	(0.007)	(0.008)	(0.011)	(0.006)
in.groupTRUE:timed	−0.005			
	(0.009)			
same.genderTRUE:timed		−0.002		
		(0.009)		
in.group.laxTRUE:timed			−0.003	
			(0.012)	
in.group.strictTRUE:timed				−0.005
				(0.009)
Constant	0.123***	0.128***	0.124***	0.126***
	(0.005)	(0.005)	(0.008)	(0.004)
Observations	22,833	22,833	22,833	22,833
R^2	0.0002	0.00004	0.0001	0.0002
Adjusted R^2	0.0001	−0.0001	−0.0001	0.0001
Note:				*p<0.1; **p<0.05; ***p<0.01

```
## The response has five or fewer unique values. Are you sure you want to do
## regression?

## Warning in randomForest.default(trainx[idx != i, , drop = FALSE], trainy[idx !
## = : The response has five or fewer unique values. Are you sure you want to do
## regression?

## Warning in randomForest.default(trainx[idx != i, imp.idx, drop = FALSE], :
## The response has five or fewer unique values. Are you sure you want to do
## regression?

## Warning in randomForest.default(trainx[idx != i, imp.idx, drop = FALSE], :
## The response has five or fewer unique values. Are you sure you want to do
## regression?

## Warning in randomForest.default(trainx[idx != i, imp.idx, drop = FALSE], :
## The response has five or fewer unique values. Are you sure you want to do
## regression?

## Warning in randomForest.default(trainx[idx != i, , drop = FALSE], trainy[idx !
## = : The response has five or fewer unique values. Are you sure you want to do
## regression?

## Warning in randomForest.default(trainx[idx != i, imp.idx, drop = FALSE], :
## The response has five or fewer unique values. Are you sure you want to do
## regression?

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## The response has five or fewer unique values. Are you sure you want to do
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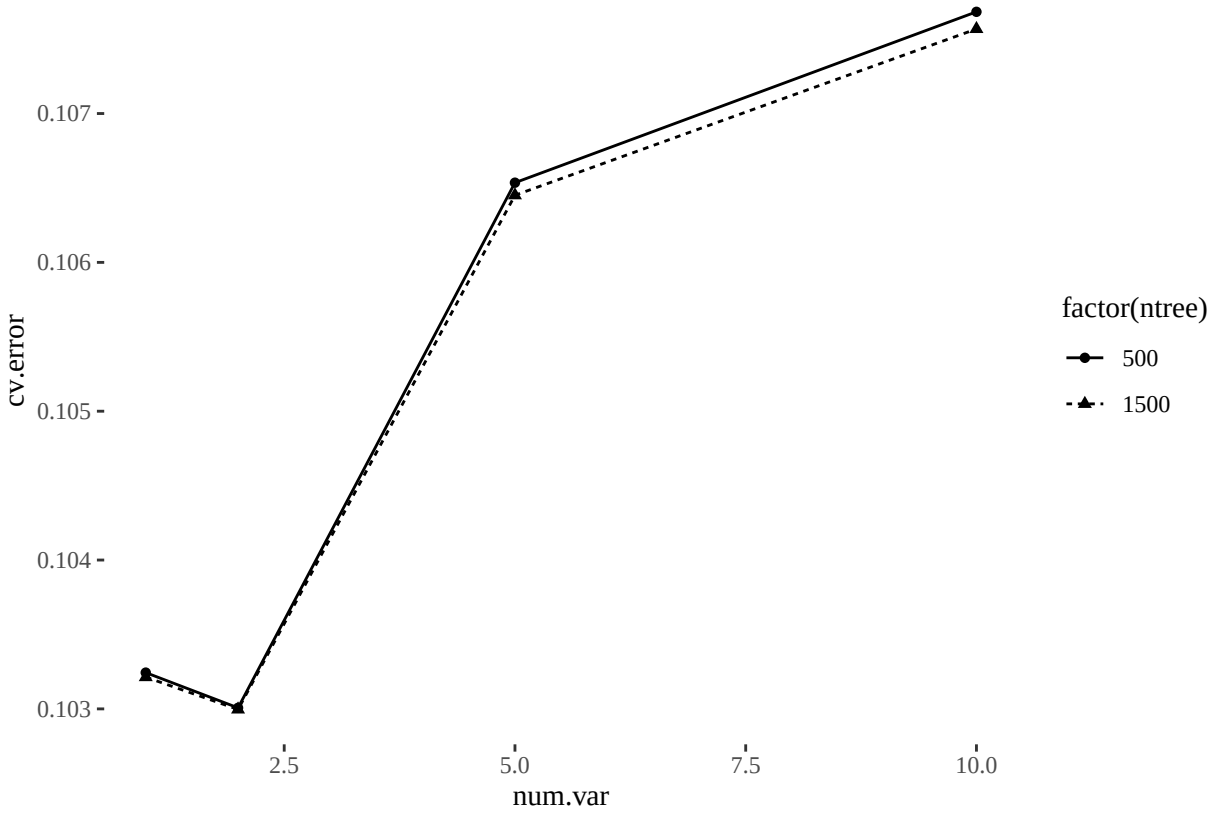


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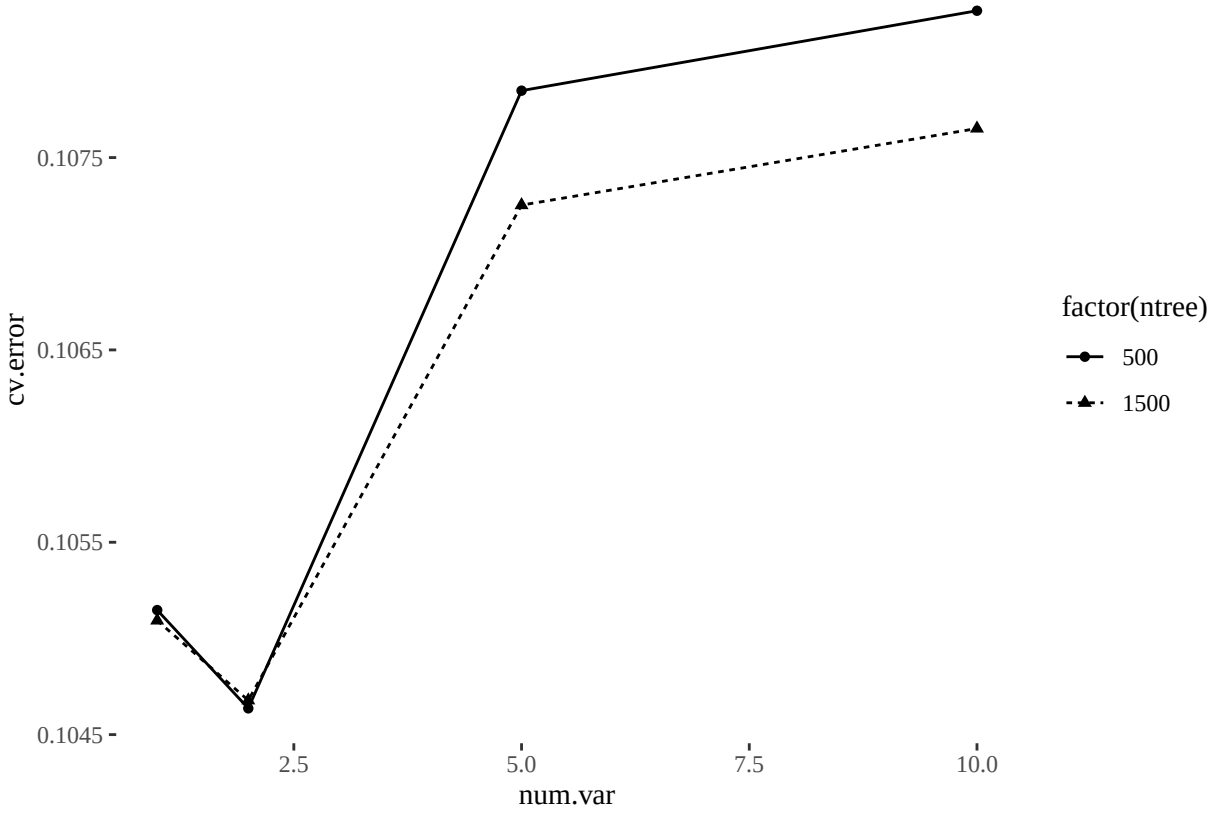


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```

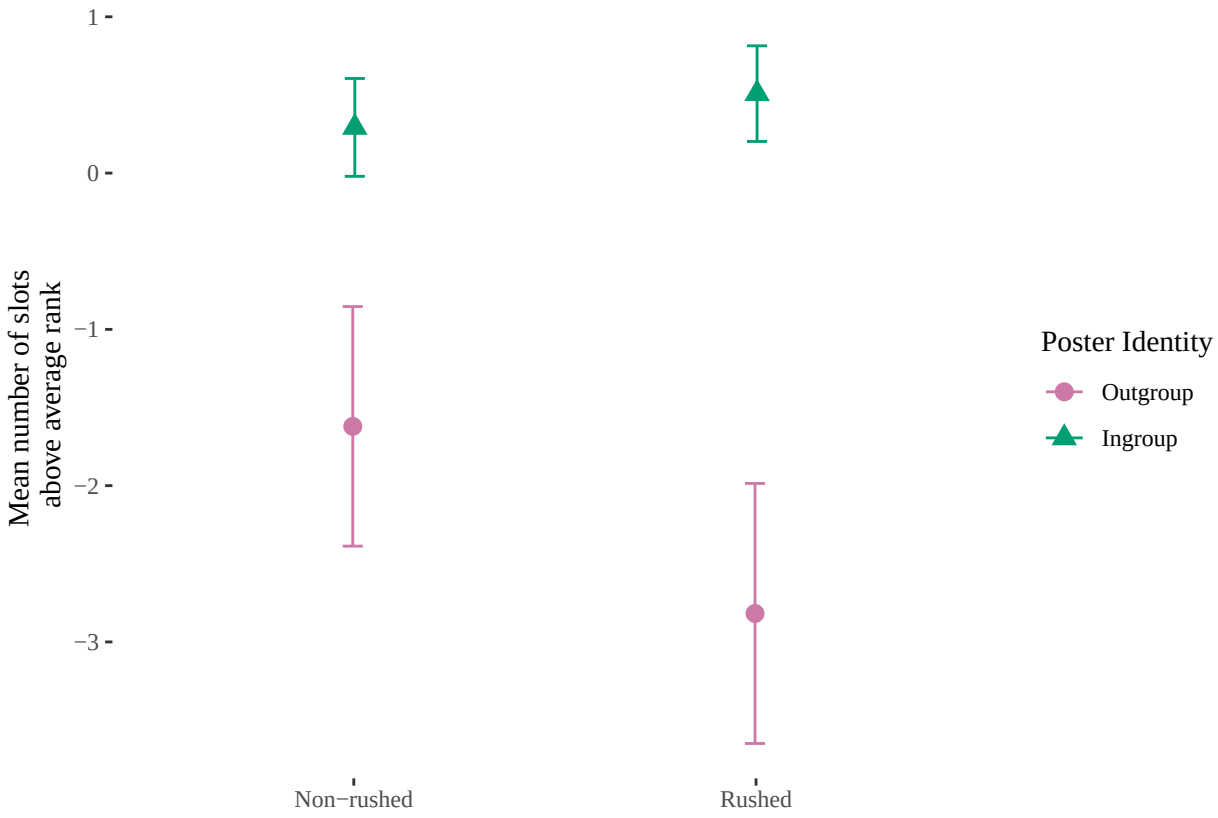

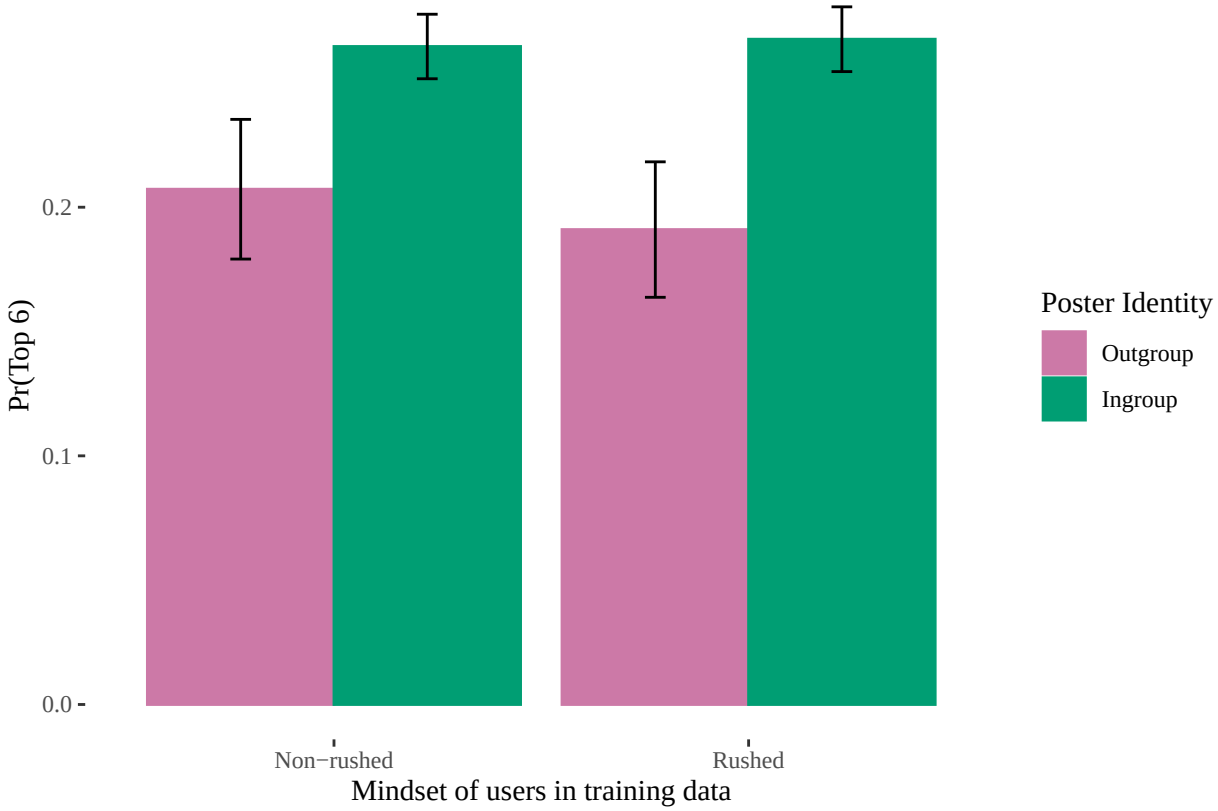

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu

% Date and time: Sat, Feb 19, 2022 - 20:36:29

Table 6:

	Dependent variable:		
	rank	top	rank
	(1)	(2)	(3)
in.group.lax	−1.913***	0.057***	−1.607***
	(0.410)	(0.017)	(0.362)
psychRushed	1.197**	−0.016	1.197**
	(0.534)	(0.022)	(0.471)
genre.match			−11.049***
			(0.201)
in.group.laxTRUE:psychRushed	−1.413**	0.019	−1.413***
	(0.580)	(0.024)	(0.512)
Constant	16.800***	0.207***	19.821***
	(0.378)	(0.015)	(0.337)
Genre match controls?			X
Observations	10,482	10,482	10,482
R^2	0.008	0.003	0.229
Adjusted R^2	0.008	0.003	0.229
Residual Std. Error	10.689 (df = 10478)	0.436 (df = 10478)	9.422 (df = 10477)
F Statistic	29.146*** (df = 3; 10478)	10.906*** (df = 3; 10478)	779.915*** (df = 4; 10477)

Note: *I

% Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu
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```
##                IncNodePurity
## user_age           28.234520
## clean_edu           7.018764
## user_frequency     11.939210
## user_genre         16.297571
## genre.match        13.562766
## rating.y           11.548676
## rec_gender          4.688411
## rec_race            8.489879
## race.simple.f       0.000000
## user_gender         0.000000
```

Table 7:

	Dependent variable:	
	rank.fast	top
	(1)	(2)
in.group.lax	5.655	−0.425***
	(3.755)	(0.163)
in.group.laxTRUE:user_age	0.004	0.0003
	(0.026)	(0.001)
in.group.laxTRUE:clean_edubachelors	−0.314	−0.052
	(0.766)	(0.033)
in.group.laxTRUE:clean_edumore.than.bachelors	3.951***	−0.051
	(0.999)	(0.043)
in.group.laxTRUE:user_frequencyEvery day	−4.231**	0.092
	(1.950)	(0.084)
in.group.laxTRUE:user_frequencyNever	1.794	0.049
	(3.599)	(0.156)
in.group.laxTRUE:user_frequencyOnce a month	−4.278**	0.012
	(1.909)	(0.083)
in.group.laxTRUE:user_frequencySeveral times a month	−3.663**	0.083
	(1.441)	(0.062)
in.group.laxTRUE:user_frequencySeveral times a week	1.135	0.040
	(1.485)	(0.064)
in.group.laxTRUE:clean_user_genreAnimation	−0.056	0.058
	(2.527)	(0.109)
in.group.laxTRUE:clean_user_genreComedy	1.443	−0.026
	(1.098)	(0.048)
in.group.laxTRUE:clean_user_genreDrama	0.427	−0.023
	(1.233)	(0.053)
in.group.laxTRUE:clean_user_genreHHO	−4.296***	0.089*
	(1.159)	(0.050)
in.group.laxTRUE:clean_user_genreScience Fiction	−0.611	−0.033
	(1.061)	(0.046)
in.group.laxTRUE:genre.match	2.035**	0.050
	(0.813)	(0.035)
in.group.laxTRUE:rating.y	−0.114	0.030**
	(0.351)	(0.015)
in.group.laxTRUE:rec_genderMale		

in.group.laxTRUE:rec_raceBlack	−5.389***	0.166***
	(0.864)	(0.037)