

Analysis Results for July 22, 2024

Descriptive Analysis: Extended_Data_Table_1_Descriptive_Data_for_different_comment_levels

Data: data

Metrics: [Metric(operation='count', column=None), Metric(operation='count_nonzero', column='totalvotes')]

Group By: order

	total_count	totalvotes_nonzero	totalvotes_sum	totalvotes_mean	totalvotes_std_dev
Total	2.01613e+07	1.47066e+07	1.54821e+08	7.67914	11.5568
0	6.06997e+06	4.78622e+06	7.7965e+07	12.8444	15.8859
1	6.75509e+06	5.05012e+06	4.63205e+07	6.85713	9.43416
2	3.78656e+06	2.6083e+06	1.81262e+07	4.787	7.11937
3	3.5497e+06	2.26195e+06	1.24098e+07	3.496	5.50151

upvotes_sum	downvotes_sum	bayes-corrected (q=0.25) valence_mean	bayes-corrected (q=0.25) valence_std_dev
1.02022e+08	5.27992e+07	0.177047	0.202194
5.07299e+07	2.72351e+07	0.173957	0.224284
3.19706e+07	1.43499e+07	0.192882	0.192026
1.14148e+07	6.71148e+06	0.164022	0.19273
7.90706e+06	4.5027e+06	0.16325	0.182324

bayes-corrected (q=0.25) extremity_mean	bayes-corrected (q=0.25) extremity_std_dev
0.315847	0.110416
0.308131	0.119965
0.31989	0.108792
0.317586	0.103832
0.321141	0.0988151

Descriptive Analysis: Extended_Data_Table_2_Descriptive_Data_for_different_news_categories

Data: data

Metrics: [Metric(operation='count', column=None), Metric(operation='sum', column='number O(n+1)-replies')]

Group By: section

	total_count	number O(n+1)-replies_sum	number O(n+1)-replies_nonzero
Total	2.01613e+07	1.40915e+07	7.49546e+06
Backstage	2638	1309	916
Career	125360	84283	47627
Community	2546	1519	921
Culture	783764	492965	283683
Economy	2.53271e+06	1.75303e+06	981305
Family	49628	31670	18194
Fitness	3010	2211	1182
Foreign affairs	3.67727e+06	2.54442e+06	1.33077e+06
Health	232501	170195	87992
History	72480	47028	26802
International	1778	661	443

	total_count	number O(n+1)-replies_sum	number O(n+1)-replies_nonzero
Internet	498610	333659	186807
Miscellaneous	1.96273e+06	1.35214e+06	729325
Mobility	554408	415352	219481
Politics	5.11635e+06	3.45114e+06	1.90106e+06
Psychology	77714	49836	28755
Relationships	8131	4828	2914
Science	3.52556e+06	2.77414e+06	1.30784e+06
Services	15	6	4
Sports	742645	458996	266832
Start	59059	38288	22794
Style	30611	17243	10890
Tests	14585	8163	5413
Total	2638	2185	922
Travel	84136	55950	32431
Your SPIEGEL	453	242	148

totalvotes_nonzero	totalvotes_sum	upvotes_sum	downvotes_sum	valence_mean
1.47066e+07	1.54821e+08	1.02022e+08	5.27992e+07	0.180973
2091	19339	14013	5326	0.233963
94139	991285	688567	302718	0.231447
1691	10943	7543	3400	0.229979
594634	7.4852e+06	4.96592e+06	2.51928e+06	0.189242
1.83206e+06	1.54187e+07	1.04775e+07	4.94118e+06	0.196956
38744	504399	350538	153861	0.220707
2183	22484	14215	8269	0.159674
2.73427e+06	3.34839e+07	2.2654e+07	1.08299e+07	0.200258
169188	1.8618e+06	1.22014e+06	641657	0.184245
56445	679183	472071	207112	0.220959
1021	5800	3874	1926	0.193512
367308	3.6749e+06	2.46672e+06	1.20818e+06	0.209165
1.44919e+06	1.74751e+07	1.18991e+07	5.57597e+06	0.204879
421827	3.50237e+06	2.19617e+06	1.3062e+06	0.160549
3.67566e+06	3.91552e+07	2.56675e+07	1.34876e+07	0.174445
59103	731898	505589	226309	0.206327
6585	117075	86625	30450	0.24777
2.48028e+06	2.16604e+07	1.29048e+07	8.7556e+06	0.131249
13	70	49	21	0.113372
573957	6.60366e+06	4.45716e+06	2.1465e+06	0.193905
45209	446297	312161	134136	0.230121
24054	237133	168395	68738	0.243311
11604	99542	73441	26101	0.273632
1915	17354	9336	8018	0.0677697
63101	614135	404586	209549	0.193893
312	3310	2196	1114	0.182085

valence_std_dev	bayes-corrected (q=0.25)	
	valence_mean	valence_std_dev
0.322102	0.177047	0.202194
0.306585	0.212235	0.186278

valence_std_dev	bayes-corrected (q=0.25) valence_mean	bayes-corrected (q=0.25) valence_std_dev
0.317363	0.207642	0.203524
0.319679	0.200451	0.171317
0.314309	0.182377	0.207577
0.320061	0.187435	0.187799
0.301459	0.204153	0.202007
0.304319	0.162	0.186423
0.325383	0.190467	0.21644
0.324605	0.178142	0.207807
0.315349	0.203942	0.211781
0.378174	0.18493	0.19432
0.328664	0.193031	0.207946
0.322236	0.193042	0.211388
0.311911	0.161896	0.180023
0.316334	0.173152	0.196045
0.311541	0.194463	0.206588
0.293584	0.227953	0.21253
0.325456	0.143581	0.192932
0.332449	0.161134	0.172433
0.324824	0.186684	0.214881
0.313004	0.206969	0.200604
0.308834	0.215343	0.200113
0.299688	0.232909	0.189377
0.307287	0.101905	0.181823
0.312513	0.182973	0.194645
0.294054	0.177125	0.172745

extremity_mean	extremity_std_dev	bayes-corrected (q=0.25) extremity_mean	bayes-corrected (q=0.25) extremity_std_dev
0.326367	0.173164	0.315847	0.110416
0.345784	0.170692	0.328434	0.109473
0.356256	0.165433	0.336509	0.106194
0.352505	0.175451	0.327594	0.0984174
0.325727	0.168832	0.316507	0.11183
0.331784	0.176493	0.318213	0.107722
0.333663	0.168096	0.322468	0.114288
0.294188	0.17757	0.291518	0.114979
0.343568	0.167148	0.329924	0.110703
0.331904	0.170744	0.320003	0.109447
0.347169	0.166553	0.333184	0.111218
0.390006	0.168064	0.349551	0.0876688
0.351581	0.16781	0.333279	0.105377
0.343485	0.166822	0.329243	0.109056
0.301206	0.179831	0.295894	0.109983
0.316742	0.173701	0.308454	0.110588
0.33338	0.168776	0.322485	0.112718
0.348138	0.162397	0.336986	0.117751
0.302174	0.178435	0.29727	0.109202
0.292859	0.177576	0.302716	0.0971885
0.339284	0.16732	0.327671	0.109384
0.350708	0.167122	0.333037	0.107829

extremity_mean	extremity_std_dev	bayes-corrected (q=0.25) extremity_mean	bayes-corrected (q=0.25) extremity_std_dev
0.356988	0.164729	0.338478	0.105355
0.372153	0.161816	0.347195	0.102294
0.258732	0.179005	0.266231	0.113323
0.324123	0.173787	0.313055	0.111405
0.294835	0.180338	0.293339	0.109939

Linear Regression Analysis: Evidence_uncongeniality_simplest_model_linear_regression_only_valence_non_standardized

Independent Variables: ['valence']

Dependent Variable: number 0(n+1)-replies

Data: data_order0

Standardize: False

Report effect size: True

OLS Regression Results

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=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.077
Model:           OLS                      Adj. R-squared:           0.077
Method:          Least Squares            F-statistic:              4.005e+05
Date:            Mon, 22 Jul 2024         Prob (F-statistic):       0.00
Time:            09:31:42                 Log-Likelihood:          -8.5881e+06
No. Observations: 4786218                AIC:                     1.718e+07
Df Residuals:    4786216                 BIC:                     1.718e+07
Df Model:        1
Covariance Type: nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	1.4225	0.001	1845.132	0.000	1.421	1.424
valence	-1.3913	0.002	-632.878	0.000	-1.396	-1.387

```

=====
Omnibus:                2883084.941    Durbin-Watson:           1.828
Prob(Omnibus):          0.000    Jarque-Bera (JB):        98618092.392
Skew:                   2.349    Prob(JB):                0.00
Kurtosis:               24.736    Cond. No.:               3.42
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongeniality_preregistered_model

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_order0

Standardize: True

Report effect size: True

OLS Regression Results

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=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.220
Model:           OLS                      Adj. R-squared:           0.220
Method:          Least Squares            F-statistic:              6.744e+05

```

Date: Mon, 22 Jul 2024 Prob (F-statistic): 0.00
 Time: 09:31:43 Log-Likelihood: -8.1863e+06
 No. Observations: 4786218 AIC: 1.637e+07
 Df Residuals: 4786215 BIC: 1.637e+07
 Df Model: 2
 Covariance Type: nonrobust

	coef	std err	t	P> t	[0.025	0.975]
const	1.1760	0.001	1922.382	0.000	1.175	1.177
bayes-corrected (q=0.25) valence	-0.4349	0.001	-707.468	0.000	-0.436	-0.434
totalvotes	0.5207	0.001	847.067	0.000	0.520	0.522

Omnibus: 2282674.662 Durbin-Watson: 1.758
 Prob(Omnibus): 0.000 Jarque-Bera (JB): 64040137.713
 Skew: 1.723 Prob(JB): 0.00
 Kurtosis: 20.586 Cond. No. 1.10

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongeniality_stability_against_variation_in_weight_q5

Independent Variables: ['bayes-corrected (q=0.5) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_order0

Standardize: True

Report effect size: False

OLS Regression Results

Dep. Variable: number 0(n+1)-replies R-squared: 0.229
 Model: OLS Adj. R-squared: 0.229
 Method: Least Squares F-statistic: 7.096e+05
 Date: Mon, 22 Jul 2024 Prob (F-statistic): 0.00
 Time: 09:31:44 Log-Likelihood: -8.1590e+06
 No. Observations: 4786218 AIC: 1.632e+07
 Df Residuals: 4786215 BIC: 1.632e+07
 Df Model: 2
 Covariance Type: nonrobust

	coef	std err	t	P> t	[0.025	0.975]
const	1.1760	0.001	1933.368	0.000	1.175	1.177
bayes-corrected (q=0.5) valence	-0.4582	0.001	-749.070	0.000	-0.459	-0.457
totalvotes	0.5147	0.001	841.341	0.000	0.513	0.516

Omnibus: 2271398.527 Durbin-Watson: 1.760
 Prob(Omnibus): 0.000 Jarque-Bera (JB): 63503192.358
 Skew: 1.712 Prob(JB): 0.00
 Kurtosis: 20.513 Cond. No. 1.11

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongeniality_stability_against_variation_in_weight_q75

Independent Variables: ['bayes-corrected (q=0.75) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_order0

Standardize: True

Report effect size: False

OLS Regression Results

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=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.236
Model:           OLS                      Adj. R-squared:           0.236
Method:          Least Squares            F-statistic:              7.380e+05
Date:            Mon, 22 Jul 2024          Prob (F-statistic):       0.00
Time:            09:31:45                  Log-Likelihood:           -8.1372e+06
No. Observations: 4786218                 AIC:                      1.627e+07
Df Residuals:    4786215                 BIC:                      1.627e+07
Df Model:        2
Covariance Type: nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	1.1760	0.001	1942.187	0.000	1.175	1.177
bayes-corrected (q=0.75) valence	-0.4762	0.001	-781.029	0.000	-0.477	-0.475
totalvotes	0.5081	0.001	833.387	0.000	0.507	0.509

```
=====
Omnibus:         2256599.632              Durbin-Watson:           1.761
Prob(Omnibus):   0.000                    Jarque-Bera (JB):        62251699.550
Skew:            1.700                      Prob(JB):                 0.00
Kurtosis:        20.338                     Cond. No.                  1.12
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongeniality_stability_against_variation_in_weight__no_bayes_correction

Independent Variables: ['valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_order0

Standardize: True

Report effect size: False

OLS Regression Results

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=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.199
Model:           OLS                      Adj. R-squared:           0.199
Method:          Least Squares            F-statistic:              5.941e+05
Date:            Mon, 22 Jul 2024          Prob (F-statistic):       0.00
Time:            09:31:47                  Log-Likelihood:           -8.2498e+06
No. Observations: 4786218                 AIC:                      1.650e+07
Df Residuals:    4786215                 BIC:                      1.650e+07
Df Model:        2
Covariance Type: nonrobust
=====
```

	coef	std err	t	P> t	[0.025	0.975]
const	1.1760	0.001	1897.046	0.000	1.175	1.177
valence	-0.3745	0.001	-601.728	0.000	-0.376	-0.373
totalvotes	0.5306	0.001	852.573	0.000	0.529	0.532
=====						
Omnibus:		2293481.647	Durbin-Watson:			1.752
Prob(Omnibus):		0.000	Jarque-Bera (JB):		63398255.054	
Skew:		1.739	Prob(JB):			0.00
Kurtosis:		20.487	Cond. No.			1.09
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Grouped Regression Analysis: Evidence_uncongeniality_robustness_analysis_on_person_level

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_order0

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Grouped by: user_id

Aggregation methods: {'bayes-corrected (q=0.25) valence': 'mean', 'totalvotes': 'sum', 'number 0(n+1)-r

Standardize: True

Report effect size: False

Print detailed coefficients: True

OLS Regression Results

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=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.934
Model:            OLS                    Adj. R-squared:           0.934
Method:           Least Squares          F-statistic:              9.416e+05
Date:             Mon, 22 Jul 2024        Prob (F-statistic):       0.00
Time:             09:31:47                Log-Likelihood:           -7.2556e+05
No. Observations: 133441                 AIC:                     1.451e+06
Df Residuals:    133438                 BIC:                     1.451e+06
Df Model:        2
Covariance Type: nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	42.4546	0.152	278.870	0.000	42.156	42.753
bayes-corrected (q=0.25) valence	-3.7792	0.152	-24.824	0.000	-4.078	-3.481
totalvotes	208.8619	0.152	1371.920	0.000	208.564	209.160
=====						
Omnibus:		253518.796	Durbin-Watson:			1.996
Prob(Omnibus):		0.000	Jarque-Bera (JB):		10401556910.024	
Skew:		13.456	Prob(JB):			0.00
Kurtosis:		1370.496	Cond. No.			1.01
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

const: 42.4545829243 (CI: [42.1561998015, 42.7529660471])

bayes-corrected (q=0.25) valence: -3.7791674082 (CI: [-4.0775562969, -3.4807785195])

totalvotes: 208.8619281171 (CI: [208.5635392284, 209.1603170058])

Grouped Regression Analysis: Evidence_uncongeniality_robustness_analysis_on_section_level

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_order0

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Grouped by: section

Aggregation methods: {'bayes-corrected (q=0.25) valence': 'mean', 'totalvotes': 'sum', 'number 0(n+1)-r

Standardize: True

Report effect size: False

Print detailed coefficients: True

OLS Regression Results

```

=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.959
Model:           OLS                      Adj. R-squared:           0.955
Method:          Least Squares            F-statistic:              268.1
Date:            Mon, 22 Jul 2024         Prob (F-statistic):      1.16e-16
Time:            09:31:47                 Log-Likelihood:          -334.54
No. Observations: 26                     AIC:                      675.1
Df Residuals:   23                       BIC:                      678.9
Df Model:        2
Covariance Type: nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	2.598e+05	1.95e+04	13.297	0.000	2.19e+05	3e+05
bayes-corrected (q=0.25) valence	-4.206e+04	1.98e+04	-2.129	0.044	-8.29e+04	-1190.281
totalvotes	4.443e+05	1.98e+04	22.488	0.000	4.03e+05	4.85e+05

```

=====
Omnibus:                25.218    Durbin-Watson:            1.928
Prob(Omnibus):           0.000    Jarque-Bera (JB):         48.147
Skew:                    1.909    Prob(JB):                 3.51e-11
Kurtosis:                8.465    Cond. No.                 1.16
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

const: 259811.1538461538 (CI: [219391.7551783801, 300230.5525139275])

bayes-corrected (q=0.25) valence: -42061.3741960863 (CI: [-82932.4677944659, -1190.2805977067])

totalvotes: 444292.7728500224 (CI: [403421.6792516428, 485163.8664484020])

Linear Regression Analysis: Evidence_uncongenialty_section_politics

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_politics

Standardize: True

Report effect size: False

OLS Regression Results

=====


```

Dep. Variable:    number 0(n+1)-replies    R-squared:                0.209
Model:           OLS                      Adj. R-squared:           0.209
Method:          Least Squares            F-statistic:              1.708e+05
Date:            Mon, 22 Jul 2024         Prob (F-statistic):      0.00
Time:            09:31:48                 Log-Likelihood:          -2.1743e+06
No. Observations: 1295105                AIC:                     4.349e+06
Df Residuals:   1295102                  BIC:                     4.349e+06
Df Model:        2
Covariance Type: nonrobust

```

	coef	std err	t	P> t	[0.025	0.975]
const	1.1182	0.001	981.264	0.000	1.116	1.120
bayes-corrected (q=0.25) valence	-0.3909	0.001	-341.822	0.000	-0.393	-0.389
totalvotes	0.5079	0.001	444.124	0.000	0.506	0.510

```

Omnibus:          680589.819    Durbin-Watson:           1.782
Prob(Omnibus):    0.000        Jarque-Bera (JB):       49094495.451
Skew:             1.699        Prob(JB):                0.00
Kurtosis:         32.971       Cond. No.                1.09

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongenialty_section_affairs

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_foreign_affairs

Standardize: True

Report effect size: False

OLS Regression Results

```

Dep. Variable:    number 0(n+1)-replies    R-squared:                0.237
Model:           OLS                      Adj. R-squared:           0.237
Method:          Least Squares            F-statistic:              1.380e+05
Date:            Mon, 22 Jul 2024         Prob (F-statistic):      0.00
Time:            09:31:48                 Log-Likelihood:          -1.5539e+06
No. Observations: 890221                AIC:                     3.108e+06
Df Residuals:   890218                  BIC:                     3.108e+06
Df Model:        2
Covariance Type: nonrobust

```

	coef	std err	t	P> t	[0.025	0.975]
const	1.1789	0.001	802.397	0.000	1.176	1.182
bayes-corrected (q=0.25) valence	-0.4979	0.001	-337.303	0.000	-0.501	-0.495
totalvotes	0.5435	0.001	368.179	0.000	0.541	0.546

```

Omnibus:          415616.007    Durbin-Watson:           1.775
Prob(Omnibus):    0.000        Jarque-Bera (JB):       8567668.092
Skew:             1.765        Prob(JB):                0.00
Kurtosis:         17.782       Cond. No.                1.10

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongenialty_section_science

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_science

Standardize: True

Report effect size: False

OLS Regression Results

```
=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.253
Model:           OLS                      Adj. R-squared:           0.253
Method:         Least Squares             F-statistic:              9.746e+04
Date:           Mon, 22 Jul 2024          Prob (F-statistic):      0.00
Time:           09:31:48                  Log-Likelihood:          -1.0810e+06
No. Observations: 575190                  AIC:                     2.162e+06
Df Residuals:   575187                    BIC:                     2.162e+06
Df Model:       2
Covariance Type: nonrobust
=====
```

	coef	std err	t	P> t	[0.025	0.975]
const	1.6458	0.002	787.663	0.000	1.642	1.650
bayes-corrected (q=0.25) valence	-0.3951	0.002	-184.289	0.000	-0.399	-0.391
totalvotes	0.7495	0.002	349.574	0.000	0.745	0.754

```
=====
Omnibus:         194870.309    Durbin-Watson:           1.765
Prob(Omnibus):   0.000        Jarque-Bera (JB):        1100608.449
Skew:            1.527        Prob(JB):                0.00
Kurtosis:        9.050        Cond. No.                1.26
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongenialty_section_economy

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_economy

Standardize: True

Report effect size: False

OLS Regression Results

```
=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.196
Model:           OLS                      Adj. R-squared:           0.196
Method:         Least Squares             F-statistic:              7.576e+04
Date:           Mon, 22 Jul 2024          Prob (F-statistic):      0.00
Time:           09:31:48                  Log-Likelihood:          -1.0058e+06
No. Observations: 620776                  AIC:                     2.012e+06
Df Residuals:   620773                    BIC:                     2.012e+06
=====
```

```

Df Model:                2
Covariance Type:        nonrobust
=====
                coef      std err          t      P>|t|      [0.025      0.975]
-----+-----
const                1.1396      0.002     734.230      0.000      1.137      1.143
bayes-corrected (q=0.25) valence  -0.3478      0.002    -223.518      0.000     -0.351     -0.345
totalvotes            0.4695      0.002     301.664      0.000      0.466      0.473
=====
Omnibus:                202475.900   Durbin-Watson:                1.799
Prob(Omnibus):           0.000   Jarque-Bera (JB):            1088427.374
Skew:                    1.479   Prob(JB):                     0.00
Kurtosis:                 8.773   Cond. No.                      1.08
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongenialty_section_miscellaneous

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_miscellaneous

Standardize: True

Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:    number 0(n+1)-replies   R-squared:                0.246
Model:           OLS                     Adj. R-squared:           0.246
Method:          Least Squares           F-statistic:              7.921e+04
Date:            Mon, 22 Jul 2024         Prob (F-statistic):       0.00
Time:            09:31:48                 Log-Likelihood:          -8.1045e+05
No. Observations: 485006                 AIC:                     1.621e+06
Df Residuals:    485003                 BIC:                     1.621e+06
Df Model:        2
Covariance Type: nonrobust
=====
                coef      std err          t      P>|t|      [0.025      0.975]
-----+-----
const                1.1141      0.002     602.981      0.000      1.110      1.118
bayes-corrected (q=0.25) valence  -0.4406      0.002    -237.533      0.000     -0.444     -0.437
totalvotes            0.5508      0.002     296.904      0.000      0.547      0.554
=====
Omnibus:                308614.044   Durbin-Watson:                1.795
Prob(Omnibus):           0.000   Jarque-Bera (JB):            33388300.741
Skew:                    2.187   Prob(JB):                     0.00
Kurtosis:                 43.411   Cond. No.                      1.09
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongenialty_section_culture

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies
 Data: data_culture
 Standardize: True
 Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.243
Model:           OLS                      Adj. R-squared:           0.243
Method:         Least Squares             F-statistic:              3.781e+04
Date:           Mon, 22 Jul 2024          Prob (F-statistic):       0.00
Time:           09:31:48                  Log-Likelihood:           -3.6290e+05
No. Observations: 235911                 AIC:                     7.258e+05
Df Residuals:   235908                   BIC:                     7.258e+05
Df Model:       2
Covariance Type: nonrobust
=====
  
```

	coef	std err	t	P> t	[0.025	0.975]
const	0.9173	0.002	395.396	0.000	0.913	0.922
bayes-corrected (q=0.25) valence	-0.3334	0.002	-142.771	0.000	-0.338	-0.329
totalvotes	0.5075	0.002	217.346	0.000	0.503	0.512

```

=====
Omnibus:         99947.806    Durbin-Watson:           1.805
Prob(Omnibus):   0.000        Jarque-Bera (JB):        886847.368
Skew:            1.813        Prob(JB):                 0.00
Kurtosis:        11.779      Cond. No.                 1.12
=====
  
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongenialty_section_sports

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']
 Dependent Variable: number 0(n+1)-replies
 Data: data_sports
 Standardize: True
 Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.256
Model:           OLS                      Adj. R-squared:           0.256
Method:         Least Squares             F-statistic:              3.965e+04
Date:           Mon, 22 Jul 2024          Prob (F-statistic):       0.00
Time:           09:31:48                  Log-Likelihood:           -3.4768e+05
No. Observations: 230524                 AIC:                     6.954e+05
Df Residuals:   230521                   BIC:                     6.954e+05
Df Model:       2
Covariance Type: nonrobust
=====
  
```

	coef	std err	t	P> t	[0.025	0.975]
const	0.8891	0.002	390.420	0.000	0.885	0.894
bayes-corrected (q=0.25) valence	-0.3918	0.002	-171.548	0.000	-0.396	-0.387

totalvotes	0.4784	0.002	209.473	0.000	0.474	0.483
=====						
Omnibus:	109314.794	Durbin-Watson:		1.837		
Prob(Omnibus):	0.000	Jarque-Bera (JB):		1540320.347		
Skew:	1.926	Prob(JB):		0.00		
Kurtosis:	15.063	Cond. No.		1.08		
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongenialty_section_mobility

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_mobility

Standardize: True

Report effect size: False

OLS Regression Results

=====						
Dep. Variable:	number 0(n+1)-replies	R-squared:		0.198		
Model:	OLS	Adj. R-squared:		0.198		
Method:	Least Squares	F-statistic:		1.449e+04		
Date:	Mon, 22 Jul 2024	Prob (F-statistic):		0.00		
Time:	09:31:48	Log-Likelihood:		-1.9705e+05		
No. Observations:	117051	AIC:		3.941e+05		
Df Residuals:	117048	BIC:		3.941e+05		
Df Model:	2					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	1.3476	0.004	353.887	0.000	1.340	1.355
bayes-corrected (q=0.25) valence	-0.3144	0.004	-80.973	0.000	-0.322	-0.307
totalvotes	0.5090	0.004	131.111	0.000	0.501	0.517
=====						
Omnibus:	32287.766	Durbin-Watson:		1.796		
Prob(Omnibus):	0.000	Jarque-Bera (JB):		111823.546		
Skew:	1.377	Prob(JB):		0.00		
Kurtosis:	6.917	Cond. No.		1.22		
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongenialty_section_internet

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_internet

Standardize: True

Report effect size: False

OLS Regression Results

=====			
Dep. Variable:	number 0(n+1)-replies	R-squared:	0.256

```

Model: OLS Adj. R-squared: 0.256
Method: Least Squares F-statistic: 2.267e+04
Date: Mon, 22 Jul 2024 Prob (F-statistic): 0.00
Time: 09:31:48 Log-Likelihood: -2.1421e+05
No. Observations: 131977 AIC: 4.284e+05
Df Residuals: 131974 BIC: 4.284e+05
Df Model: 2
Covariance Type: nonrobust

```

	coef	std err	t	P> t	[0.025	0.975]
const	1.0804	0.003	320.014	0.000	1.074	1.087
bayes-corrected (q=0.25) valence	-0.4040	0.003	-118.355	0.000	-0.411	-0.397
totalvotes	0.5375	0.003	157.450	0.000	0.531	0.544

```

Omnibus: 54168.298 Durbin-Watson: 1.825
Prob(Omnibus): 0.000 Jarque-Bera (JB): 590918.640
Skew: 1.674 Prob(JB): 0.00
Kurtosis: 12.811 Cond. No. 1.16

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_uncongenialty_section_health

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_health

Standardize: True

Report effect size: False

OLS Regression Results

```

Dep. Variable: number 0(n+1)-replies R-squared: 0.257
Model: OLS Adj. R-squared: 0.257
Method: Least Squares F-statistic: 8576.
Date: Mon, 22 Jul 2024 Prob (F-statistic): 0.00
Time: 09:31:48 Log-Likelihood: -86794.
No. Observations: 49462 AIC: 1.736e+05
Df Residuals: 49459 BIC: 1.736e+05
Df Model: 2
Covariance Type: nonrobust

```

	coef	std err	t	P> t	[0.025	0.975]
const	1.3371	0.006	212.544	0.000	1.325	1.349
bayes-corrected (q=0.25) valence	-0.4685	0.006	-73.917	0.000	-0.481	-0.456
totalvotes	0.6228	0.006	98.259	0.000	0.610	0.635

```

Omnibus: 17663.533 Durbin-Watson: 1.771
Prob(Omnibus): 0.000 Jarque-Bera (JB): 106942.347
Skew: 1.595 Prob(JB): 0.00
Kurtosis: 9.459 Cond. No. 1.13

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_ uncongeniality_ robustness_ order1

Independent Variables: ['bayes-corrected (q=0.25) valence', 'totalvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_order1

Standardize: True

Report effect size: False

OLS Regression Results

```
=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.136
Model:           OLS                      Adj. R-squared:           0.136
Method:          Least Squares            F-statistic:              3.982e+05
Date:            Mon, 22 Jul 2024         Prob (F-statistic):      0.00
Time:            09:31:50                 Log-Likelihood:          -6.2998e+06
No. Observations: 5050120                AIC:                     1.260e+07
Df Residuals:    5050117                 BIC:                     1.260e+07
Df Model:        2
Covariance Type: nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
const	0.6133	0.000	1636.095	0.000	0.613	0.614
bayes-corrected (q=0.25) valence	-0.2055	0.000	-548.027	0.000	-0.206	-0.205
totalvotes	0.2575	0.000	686.512	0.000	0.257	0.258

```
=====
Omnibus:         2832727.339    Durbin-Watson:           1.864
Prob(Omnibus):   0.000          Jarque-Bera (JB):        85433368.019
Skew:            2.153          Prob(JB):                0.00
Kurtosis:        22.684         Cond. No.                1.03
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_ uncogeniality_ model_ with_ seperate_ upvotes_ downvotes

Independent Variables: ['upvotes', 'downvotes']

Dependent Variable: number 0(n+1)-replies

Data: data_order0

Standardize: True

Report effect size: False

OLS Regression Results

```
=====
Dep. Variable:    number 0(n+1)-replies    R-squared:                0.194
Model:           OLS                      Adj. R-squared:           0.194
Method:          Least Squares            F-statistic:              7.311e+05
Date:            Mon, 22 Jul 2024         Prob (F-statistic):      0.00
Time:            09:31:51                 Log-Likelihood:          -1.0415e+07
No. Observations: 6069971                AIC:                     2.083e+07
Df Residuals:    6069968                 BIC:                     2.083e+07
Df Model:        2

```

```

Covariance Type:          nonrobust
=====
              coef      std err          t      P>|t|      [0.025      0.975]
-----
const          1.1129        0.001    2037.629      0.000         1.112         1.114
upvotes        0.0893        0.001    162.278      0.000         0.088         0.090
downvotes      0.6433        0.001   1168.654      0.000         0.642         0.644
=====
Omnibus:                3179849.625   Durbin-Watson:                1.812
Prob(Omnibus):          0.000   Jarque-Bera (JB):           138815450.026
Skew:                   1.836   Prob(JB):                   0.00
Kurtosis:               26.138   Cond. No.                   1.13
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_preregistered_model

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']

Dependent Variable: bayes-corrected (q=0.25) valence

Data: data_order0

Standardize: True

Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:          bayes-corrected (q=0.25) valence   R-squared:                0.021
Model:                  OLS                               Adj. R-squared:           0.021
Method:                 Least Squares                    F-statistic:              5.020e+04
Date:                   Mon, 22 Jul 2024                  Prob (F-statistic):       0.00
Time:                   09:31:51                          Log-Likelihood:          -221.34
No. Observations:      2392896                           AIC:                     446.7
Df Residuals:          2392894                           BIC:                     472.1
Df Model:               1
Covariance Type:       nonrobust
=====

```

```

=====
              coef      std err          t      P>|t|      [0.025      0.975]
-----
const          0.1246        0.000    796.722      0.000         0.124         0.125
mean bayes-corrected (q=0.25) valence of replies -0.0351        0.000   -224.063      0.000        -0.035        -0.035
=====
Omnibus:                426104.077   Durbin-Watson:                1.729
Prob(Omnibus):          0.000   Jarque-Bera (JB):           131391.270
Skew:                   -0.336   Prob(JB):                   0.00
Kurtosis:               2.070   Cond. No.                   1.00
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_stability_against_variation_in_weight_q5

Independent Variables: ['mean bayes-corrected (q=0.5) valence of replies']

Dependent Variable: bayes-corrected (q=0.5) valence
 Data: data_order0
 Standardize: True
 Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:    bayes-corrected (q=0.5) valence    R-squared:                0.027
Model:           OLS                               Adj. R-squared:           0.027
Method:         Least Squares                     F-statistic:              6.556e+04
Date:           Mon, 22 Jul 2024                   Prob (F-statistic):       0.00
Time:           09:31:52                           Log-Likelihood:          3.9215e+05
No. Observations: 2392896                           AIC:                     -7.843e+05
Df Residuals:   2392894                             BIC:                     -7.843e+05
Df Model:       1
Covariance Type: nonrobust
=====
  
```

```

=====
                                coef    std err          t      P>|t|      [0.025
-----+-----+-----
const                          0.1323    0.000     996.732    0.000     0.132
0.133
mean bayes-corrected (q=0.5) valence of replies -0.0340    0.000   -256.042    0.000   -0.034
-0.034
=====
  
```

```

=====
Omnibus:           168653.316   Durbin-Watson:           1.726
Prob(Omnibus):     0.000   Jarque-Bera (JB):        107460.980
Skew:              -0.396   Prob(JB):                 0.00
Kurtosis:          2.328   Cond. No.                  1.00
=====
  
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_stability_against_variation_in_weight_q75

Independent Variables: ['mean bayes-corrected (q=0.75) valence of replies']
 Dependent Variable: bayes-corrected (q=0.75) valence
 Data: data_order0
 Standardize: True
 Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:    bayes-corrected (q=0.75) valence    R-squared:                0.032
Model:           OLS                               Adj. R-squared:           0.032
Method:         Least Squares                     F-statistic:              8.012e+04
Date:           Mon, 22 Jul 2024                   Prob (F-statistic):       0.00
Time:           09:31:52                           Log-Likelihood:          8.8112e+05
No. Observations: 2392896                           AIC:                     -1.762e+06
Df Residuals:   2392894                             BIC:                     -1.762e+06
Df Model:       1
Covariance Type: nonrobust
=====
  
```

```

=====
                                coef    std err          t      P>|t|      [0.025
-----+-----+-----
const                          0.1411    0.000   1303.270    0.000     0.14
0.14
=====
  
```

0.141
 mean bayes-corrected (q=0.75) valence of replies -0.0306 0.000 -283.054 0.000 -0.03
 -0.030

```
=====
Omnibus:                95205.666   Durbin-Watson:           1.729
Prob(Omnibus):          0.000   Jarque-Bera (JB):       102788.717
Skew:                   -0.491   Prob(JB):                0.00
Kurtosis:               2.742   Cond. No.                1.00
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_stability_against_variation_in_weight_no_bayes_correction

Independent Variables: ['mean valence of replies']

Dependent Variable: valence

Data: data_order0

Standardize: True

Report effect size: False

OLS Regression Results

```
=====
Dep. Variable:          valence   R-squared:                0.010
Model:                  OLS       Adj. R-squared:           0.010
Method:                 Least Squares   F-statistic:              2.337e+04
Date:                   Mon, 22 Jul 2024   Prob (F-statistic):       0.00
Time:                   09:31:53         Log-Likelihood:           -4.8218e+05
No. Observations:      2392896         AIC:                      9.644e+05
Df Residuals:          2392894         BIC:                      9.644e+05
Df Model:               1
Covariance Type:       nonrobust
=====
```

```
=====
              coef      std err          t      P>|t|      [0.025      0.975]
-----
const                0.1158         0.000     604.951     0.000         0.115         0.116
mean valence of replies -0.0293         0.000    -152.877     0.000        -0.030        -0.029
=====
```

```
=====
Omnibus:                785394.853   Durbin-Watson:           1.750
Prob(Omnibus):          0.000   Jarque-Bera (JB):       152455.997
Skew:                   -0.323   Prob(JB):                0.00
Kurtosis:               1.946   Cond. No.                1.00
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_section_politics

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']

Dependent Variable: bayes-corrected (q=0.25) valence

Data: data_politics

Standardize: True

Report effect size: False

OLS Regression Results

```

Dep. Variable:    bayes-corrected (q=0.25) valence    R-squared:                0.018
Model:                OLS                            Adj. R-squared:           0.018
Method:              Least Squares                   F-statistic:              1.166e+04
Date:                Mon, 22 Jul 2024                 Prob (F-statistic):       0.00
Time:                09:31:53                         Log-Likelihood:           34045.
No. Observations:    621929                           AIC:                      -6.809e+04
Df Residuals:        621927                           BIC:                      -6.806e+04
Df Model:            1
Covariance Type:    nonrobust

```

```

=====
                                coef    std err          t      P>|t|      [0.025
-----+-----+-----
const                            0.1305     0.000    449.326     0.000     0.130
0.131
mean bayes-corrected (q=0.25) valence of replies  -0.0314     0.000   -107.983     0.000    -0.031
-0.031
=====

```

```

=====
Omnibus:                78154.602    Durbin-Watson:            1.733
Prob(Omnibus):          0.000    Jarque-Bera (JB):        31765.731
Skew:                   -0.357    Prob(JB):                 0.00
Kurtosis:               2.155    Cond. No.                 1.00
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_section_affairs

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']

Dependent Variable: bayes-corrected (q=0.25) valence

Data: data_foreign_affairs

Standardize: True

Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:    bayes-corrected (q=0.25) valence    R-squared:                0.019
Model:                OLS                            Adj. R-squared:           0.019
Method:              Least Squares                   F-statistic:              8343.
Date:                Mon, 22 Jul 2024                 Prob (F-statistic):       0.00
Time:                09:31:53                         Log-Likelihood:           -43060.
No. Observations:    440260                           AIC:                      8.612e+04
Df Residuals:        440258                           BIC:                      8.615e+04
Df Model:            1
Covariance Type:    nonrobust

```

```

=====
                                coef    std err          t      P>|t|      [0.025
-----+-----+-----
const                            0.1353     0.000    336.404     0.000     0.135
0.136
mean bayes-corrected (q=0.25) valence of replies  -0.0367     0.000   -91.341     0.000    -0.036
-0.036
=====

```

```

=====
Omnibus:                129058.321    Durbin-Watson:            1.735
Prob(Omnibus):          0.000    Jarque-Bera (JB):        32315.635

```

Skew: -0.421 Prob(JB): 0.00
 Kurtosis: 1.974 Cond. No. 1.00

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_section_science

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']
 Dependent Variable: bayes-corrected (q=0.25) valence
 Data: data_science
 Standardize: True
 Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:      bayes-corrected (q=0.25) valence    R-squared:                0.028
Model:              OLS                               Adj. R-squared:           0.028
Method:             Least Squares                    F-statistic:              1.007e+04
Date:               Mon, 22 Jul 2024                  Prob (F-statistic):       0.00
Time:               09:31:53                          Log-Likelihood:           27583.
No. Observations:  345534                             AIC:                      -5.516e+04
Df Residuals:      345532                             BIC:                      -5.514e+04
Df Model:           1
Covariance Type:   nonrobust
=====

```

```

=====
              coef      std err          t      P>|t|      [0.025
-----+-----
const                0.0723      0.000     190.132      0.000      0.072
0.073
mean bayes-corrected (q=0.25) valence of replies -0.0381      0.000    -100.372      0.000     -0.037
-0.037
=====

```

```

=====
Omnibus:            59103.072    Durbin-Watson:           1.791
Prob(Omnibus):      0.000    Jarque-Bera (JB):        12955.369
Skew:               -0.052    Prob(JB):                 0.00
Kurtosis:           2.057    Cond. No.                 1.00
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_section_economy

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']
 Dependent Variable: bayes-corrected (q=0.25) valence
 Data: data_economy
 Standardize: True
 Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:      bayes-corrected (q=0.25) valence    R-squared:                0.017
Model:              OLS                               Adj. R-squared:           0.017
Method:             Least Squares                    F-statistic:              5484.
Date:               Mon, 22 Jul 2024                  Prob (F-statistic):       0.00

```

```

Time: 09:31:53 Log-Likelihood: 24023.
No. Observations: 316428 AIC: -4.804e+04
Df Residuals: 316426 BIC: -4.802e+04
Df Model: 1
Covariance Type: nonrobust

```

	coef	std err	t	P> t	[0.025
const	0.1474	0.000	369.619	0.000	0.14
0.148					
mean bayes-corrected (q=0.25) valence of replies	-0.0295	0.000	-74.054	0.000	-0.03
-0.029					

```

=====
Omnibus: 28321.195 Durbin-Watson: 1.760
Prob(Omnibus): 0.000 Jarque-Bera (JB): 17536.904
Skew: -0.450 Prob(JB): 0.00
Kurtosis: 2.278 Cond. No. 1.00
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_section_miscellaneous

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']

Dependent Variable: bayes-corrected (q=0.25) valence

Data: data_miscellaneous

Standardize: True

Report effect size: False

OLS Regression Results

```

=====
Dep. Variable: bayes-corrected (q=0.25) valence R-squared: 0.028
Model: OLS Adj. R-squared: 0.028
Method: Least Squares F-statistic: 6790.
Date: Mon, 22 Jul 2024 Prob (F-statistic): 0.00
Time: 09:31:54 Log-Likelihood: -13916.
No. Observations: 235551 AIC: 2.784e+04
Df Residuals: 235549 BIC: 2.786e+04
Df Model: 1
Covariance Type: nonrobust
=====

```

	coef	std err	t	P> t	[0.025
const	0.1362	0.001	257.499	0.000	0.13
0.137					
mean bayes-corrected (q=0.25) valence of replies	-0.0436	0.001	-82.403	0.000	-0.04
-0.043					

```

=====
Omnibus: 52959.753 Durbin-Watson: 1.732
Prob(Omnibus): 0.000 Jarque-Bera (JB): 15867.344
Skew: -0.409 Prob(JB): 0.00
Kurtosis: 2.027 Cond. No. 1.00
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_section_culture

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']

Dependent Variable: bayes-corrected (q=0.25) valence

Data: data_culture

Standardize: True

Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:    bayes-corrected (q=0.25) valence    R-squared:                0.032
Model:                OLS                            Adj. R-squared:           0.032
Method:              Least Squares                   F-statistic:              3435.
Date:                Mon, 22 Jul 2024                 Prob (F-statistic):      0.00
Time:                09:31:54                        Log-Likelihood:          -1315.0
No. Observations:    102305                          AIC:                     2634.
Df Residuals:        102303                          BIC:                     2653.
Df Model:            1
Covariance Type:    nonrobust
=====

```

```

=====
                                coef    std err          t      P>|t|      [0.025
-----+-----+-----+-----+-----+-----
const                            0.1253    0.001    163.518    0.000    0.124
0.127
mean bayes-corrected (q=0.25) valence of replies  -0.0449    0.001   -58.610    0.000   -0.043
-0.043
=====

```

```

=====
Omnibus:                19234.419    Durbin-Watson:            1.748
Prob(Omnibus):          0.000    Jarque-Bera (JB):        5689.759
Skew:                   -0.334    Prob(JB):                0.00
Kurtosis:               2.057    Cond. No.                1.00
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_section_sports

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']

Dependent Variable: bayes-corrected (q=0.25) valence

Data: data_sports

Standardize: True

Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:    bayes-corrected (q=0.25) valence    R-squared:                0.032
Model:                OLS                            Adj. R-squared:           0.032
Method:              Least Squares                   F-statistic:              3344.
Date:                Mon, 22 Jul 2024                 Prob (F-statistic):      0.00
Time:                09:31:54                        Log-Likelihood:          -6723.8
No. Observations:    100071                          AIC:                     1.345e+04
Df Residuals:        100069                          BIC:                     1.347e+04
Df Model:            1
=====

```

```

Covariance Type: nonrobust
=====
                    coef    std err          t      P>|t|      [0.025
-----+-----
const                0.1246    0.001    152.318    0.000    0.122
0.126
mean bayes-corrected (q=0.25) valence of replies -0.0473    0.001   -57.827    0.000   -0.049
-0.046
=====
Omnibus:                28267.899    Durbin-Watson:                1.740
Prob(Omnibus):          0.000    Jarque-Bera (JB):            6368.870
Skew:                   -0.345    Prob(JB):                    0.00
Kurtosis:               1.975    Cond. No.                    1.00
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_section_mobility

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']

Dependent Variable: bayes-corrected (q=0.25) valence

Data: data_mobility

Standardize: True

Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:          bayes-corrected (q=0.25) valence    R-squared:                0.024
Model:                  OLS                                Adj. R-squared:           0.024
Method:                 Least Squares                    F-statistic:              1726.
Date:                   Mon, 22 Jul 2024                  Prob (F-statistic):       0.00
Time:                   09:31:54                          Log-Likelihood:          10825.
No. Observations:      69253                             AIC:                     -2.165e+04
Df Residuals:          69251                             BIC:                     -2.163e+04
Df Model:               1
Covariance Type:       nonrobust
=====
                    coef    std err          t      P>|t|      [0.025
-----+-----
const                0.1109    0.001    141.050    0.000    0.109
0.112
mean bayes-corrected (q=0.25) valence of replies -0.0327    0.001   -41.551    0.000   -0.034
-0.031
=====
Omnibus:                6922.840    Durbin-Watson:                1.814
Prob(Omnibus):          0.000    Jarque-Bera (JB):            2381.203
Skew:                   -0.195    Prob(JB):                    0.00
Kurtosis:               2.179    Cond. No.                    1.00
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_section_internet

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']
 Dependent Variable: bayes-corrected (q=0.25) valence
 Data: data_internet
 Standardize: True
 Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:    bayes-corrected (q=0.25) valence    R-squared:                0.028
Model:           OLS                                Adj. R-squared:           0.028
Method:          Least Squares                       F-statistic:              1805.
Date:            Mon, 22 Jul 2024                     Prob (F-statistic):       0.00
Time:            09:31:54                             Log-Likelihood:          -3477.5
No. Observations: 63079                             AIC:                     6959.
Df Residuals:    63077                             BIC:                     6977.
Df Model:        1
Covariance Type: nonrobust
=====
  
```

```

-----
                                coef    std err          t      P>|t|      [0.025
-----
const                            0.1191    0.001    117.001    0.000    0.11
0.121
mean bayes-corrected (q=0.25) valence of replies -0.0433    0.001   -42.490    0.000   -0.04
-0.041
=====
  
```

```

=====
Omnibus:            21454.701    Durbin-Watson:           1.721
Prob(Omnibus):      0.000    Jarque-Bera (JB):        4028.801
Skew:               -0.319    Prob(JB):                0.00
Kurtosis:           1.939    Cond. No.                1.00
=====
  
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_section_health

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']
 Dependent Variable: bayes-corrected (q=0.25) valence
 Data: data_health
 Standardize: True
 Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:    bayes-corrected (q=0.25) valence    R-squared:                0.043
Model:           OLS                                Adj. R-squared:           0.043
Method:          Least Squares                       F-statistic:              1211.
Date:            Mon, 22 Jul 2024                     Prob (F-statistic):       1.61e-259
Time:            09:31:54                             Log-Likelihood:          -439.22
No. Observations: 27005                             AIC:                     882.4
Df Residuals:    27003                             BIC:                     898.9
Df Model:        1
Covariance Type: nonrobust
=====
  
```

```

-----
                                coef    std err          t      P>|t|      [0.025
-----
  
```


const	0.1074	0.001	71.776	0.000	0.10
0.110					
mean bayes-corrected (q=0.25) valence of replies	-0.0521	0.001	-34.794	0.000	-0.05
-0.049					

```

=====
Omnibus:                6746.889   Durbin-Watson:           1.761
Prob(Omnibus):          0.000   Jarque-Bera (JB):       1324.435
Skew:                   -0.197   Prob(JB):                2.53e-288
Kurtosis:               1.989   Cond. No.                1.00
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Linear Regression Analysis: Evidence_antagonism_robustness_order1

Independent Variables: ['mean bayes-corrected (q=0.25) valence of replies']

Dependent Variable: bayes-corrected (q=0.25) valence

Data: data_order1

Standardize: True

Report effect size: False

OLS Regression Results

```

=====
Dep. Variable:          bayes-corrected (q=0.25) valence   R-squared:                0.057
Model:                  OLS                               Adj. R-squared:           0.057
Method:                 Least Squares                     F-statistic:              9.915e+04
Date:                   Mon, 22 Jul 2024                  Prob (F-statistic):       0.00
Time:                   09:31:54                          Log-Likelihood:           2.1429e+05
No. Observations:      1630262                            AIC:                      -4.286e+05
Df Residuals:          1630260                            BIC:                      -4.286e+05
Df Model:               1
Covariance Type:       nonrobust
=====

```

	coef	std err	t	P> t	[0.025
const	0.1419	0.000	854.072	0.000	0.14
0.142					
mean bayes-corrected (q=0.25) valence of replies	-0.0523	0.000	-314.877	0.000	-0.05
-0.052					

```

=====
Omnibus:                101738.374   Durbin-Watson:           1.753
Prob(Omnibus):          0.000   Jarque-Bera (JB):       62821.338
Skew:                   -0.351   Prob(JB):                0.00
Kurtosis:               2.343   Cond. No.                1.00
=====

```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity

Variable 1: bayes-corrected (q=0.25) extremity

Variable 2: mean bayes-corrected (q=0.25) extremity of replies

Data: data_order0

Mean of bayes-corrected (q=0.25) extremity: 0.28634078314814315

Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.31853427098636283
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.12461005214018245
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.09803757310470287
Degrees of Freedom: 2392895
Cohen's d: -0.28714996199978216
T-statistic: -396.76675511778956
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_stability_against_variation_in_weight_paired_ttest_q5

Variable 1: bayes-corrected (q=0.5) extremity
Variable 2: mean bayes-corrected (q=0.5) extremity of replies
Data: data_order0

Mean of bayes-corrected (q=0.5) extremity: 0.2934997056888845
Mean of mean bayes-corrected (q=0.5) extremity of replies: 0.31880240669265064
Standard Deviation of bayes-corrected (q=0.5) extremity: 0.10366027656607042
Standard Deviation of mean bayes-corrected (q=0.5) extremity of replies: 0.07259709613375841
Degrees of Freedom: 2392895
Cohen's d: -0.28275329909468133
T-statistic: -394.7125869249032
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_stability_against_variation_in_weight_paired_ttest_q75

Variable 1: bayes-corrected (q=0.75) extremity
Variable 2: mean bayes-corrected (q=0.75) extremity of replies
Data: data_order0

Mean of bayes-corrected (q=0.75) extremity: 0.3010823980840001
Mean of mean bayes-corrected (q=0.75) extremity of replies: 0.32039106933723704
Standard Deviation of bayes-corrected (q=0.75) extremity: 0.08248076963764756
Standard Deviation of mean bayes-corrected (q=0.75) extremity of replies: 0.05223289636934443
Degrees of Freedom: 2392895
Cohen's d: -0.2796984844303324
T-statistic: -391.6388789093796
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_stability_against_variation_in_weight_paired_ttest_bayes

Variable 1: extremity
Variable 2: mean extremity of replies
Data: data_order0

Mean of extremity: 0.2786279465660722
Mean of mean extremity of replies: 0.33064022086792666
Standard Deviation of extremity: 0.15566001726472525
Standard Deviation of mean extremity of replies: 0.15685179947476463
Degrees of Freedom: 2392895
Cohen's d: -0.332863548235494
T-statistic: -441.7826610833192
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_robustness_paired_ttest_order1

Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_order1

Mean of bayes-corrected (q=0.25) extremity: 0.29265411081901965

Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.316766141686027
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.11701339959130957
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.09812627267575441
Degrees of Freedom: 1630261
Cohen's d: -0.2232935227954181
T-statistic: -248.9875068375778
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity_politics

Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_politics

Mean of bayes-corrected (q=0.25) extremity: 0.2747813213977206
Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.31051648819461664
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.1232411698734475
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.09815038738028235
Degrees of Freedom: 621928
Cohen's d: -0.3207697725588003
T-statistic: -224.4339595489235
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity_foreign_affairs

Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_foreign_affairs

Mean of bayes-corrected (q=0.25) extremity: 0.30983360408913946
Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.330913534598374
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.1266220167440838
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.0994658270407316
Degrees of Freedom: 440259
Cohen's d: -0.18514479506979328
T-statistic: -116.67457613500132
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity_science

Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_science

Mean of bayes-corrected (q=0.25) extremity: 0.25732194943047365
Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.3019777399435376
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.1187657730515952
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.09498121080140695
Degrees of Freedom: 345533
Cohen's d: -0.4152747999524859
T-statistic: -212.56678640514008
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity_economy

Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_economy

Mean of bayes-corrected (q=0.25) extremity: 0.28753090601867964

Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.3206172046668397
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.12269603857552688
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.09544219919767762
Degrees of Freedom: 316427
Cohen's d: -0.3010114266220678
T-statistic: -144.89599610520233
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity_miscellaneous

Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_miscellaneous

Mean of bayes-corrected (q=0.25) extremity: 0.3045872088628839
Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.33005502824126426
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.12405998014131653
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.09742991339150692
Degrees of Freedom: 235550
Cohen's d: -0.22832386975048508
T-statistic: -97.05206575930157
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity_culture

Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_culture

Mean of bayes-corrected (q=0.25) extremity: 0.2873043034163312
Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.3180681433274033
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.12427097360816901
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.10041204122831116
Degrees of Freedom: 102304
Cohen's d: -0.27231114070182555
T-statistic: -77.26207861609845
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity_sports

Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_sports

Mean of bayes-corrected (q=0.25) extremity: 0.30601102207250513
Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.328439915246921
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.12292708240128108
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.098047183761713
Degrees of Freedom: 100070
Cohen's d: -0.20172544463043993
T-statistic: -55.9671976011527
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity_mobility

Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_mobility

Mean of bayes-corrected (q=0.25) extremity: 0.25434099233474056

Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.3002874727751491
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.1194543498720806
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.09661488578718154
Degrees of Freedom: 69252
Cohen's d: -0.4229377864257918
T-statistic: -93.24696971910268
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity_internet

Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_internet

Mean of bayes-corrected (q=0.25) extremity: 0.30568494651578504
Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.33706126033387757
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.12135285517757544
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.09268724557998224
Degrees of Freedom: 63078
Cohen's d: -0.2905871965145026
T-statistic: -63.21801300923011
P-value: 0.0

Paired TTest Analysis: Evidence_polarization_paired_ttest_extremity_health

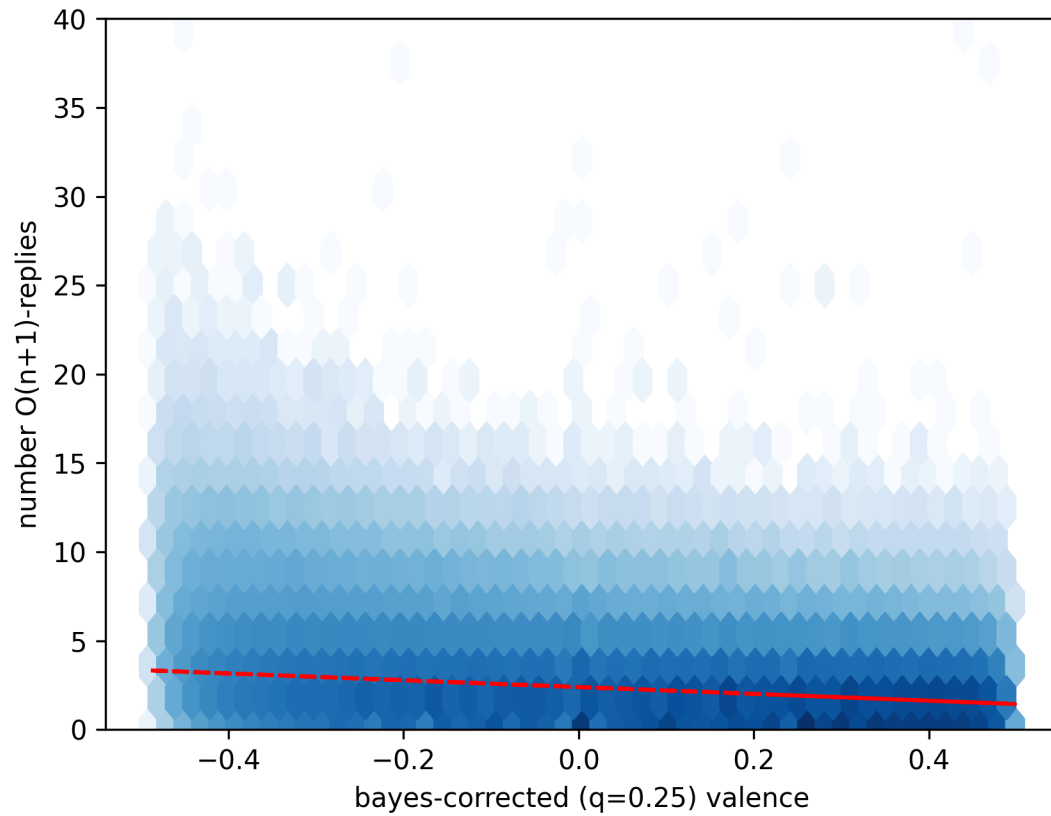
Variable 1: bayes-corrected (q=0.25) extremity
Variable 2: mean bayes-corrected (q=0.25) extremity of replies
Data: data_health

Mean of bayes-corrected (q=0.25) extremity: 0.286001211119296
Mean of mean bayes-corrected (q=0.25) extremity of replies: 0.32344058185785135
Standard Deviation of bayes-corrected (q=0.25) extremity: 0.12360412242902419
Standard Deviation of mean bayes-corrected (q=0.25) extremity of replies: 0.09582069057098505
Degrees of Freedom: 27004
Cohen's d: -0.3385470290175242
T-statistic: -48.09524752175683
P-value: 0.0

Visualization: Fig_2a

Data: data_order0
Title: None
Creating Hexbin Plot
Variable X: bayes-corrected (q=0.25) valence
Variable Y: number 0(n+1)-replies
X Axis Maximum: None
Y Axis Maximum: 40
Trendline: True
Log Scaling: True

Plot saved at results/Fig_2a.png



Visualization: Fig_2b

Data: data

Title: None

Creating Forest Plot

Regression Model Names: ['Evidence_uncongenialty_section_politics', 'Evidence_uncongenialty_section_for

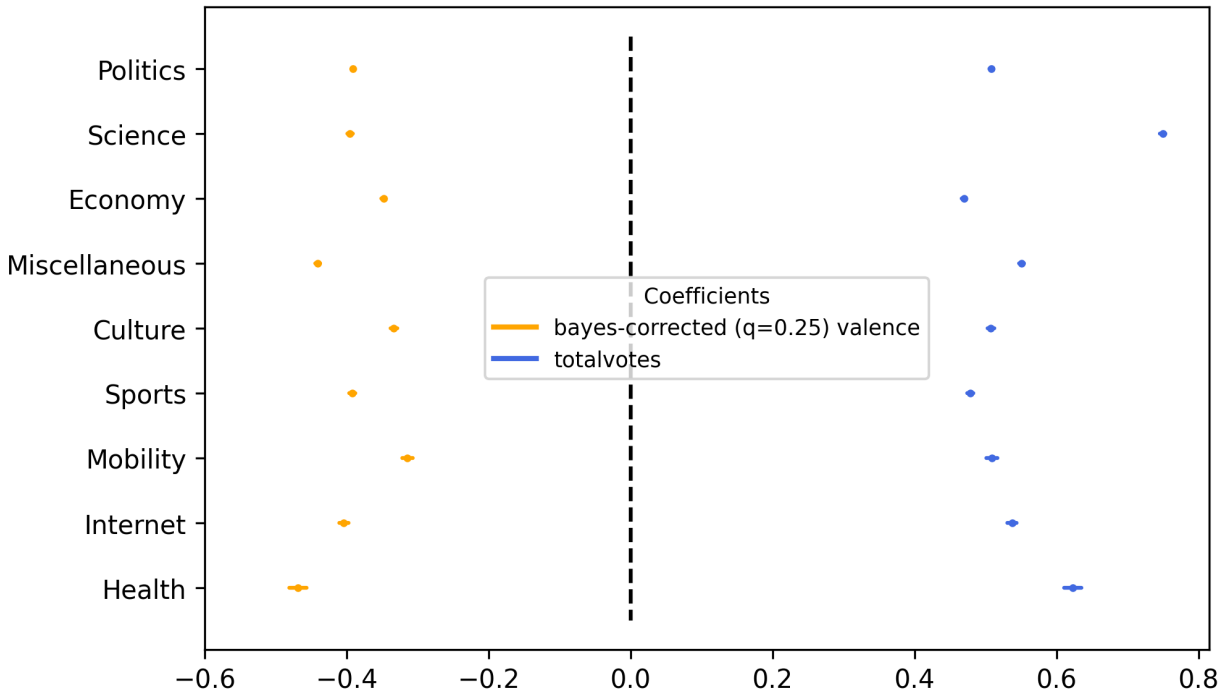
Coefficient Names: ['bayes-corrected (q=0.25) valence', 'totalvotes']

X-Axis Minimum: -0.6

X-Axis Maximum: None

Dotsize: 2

Plot saved at results/Fig_2b.png



Visualization: Fig_2c

Data: data_order0_with_minimum_one_vote

Title: None

Creating Heatmap

Axis Variables: ['upvotes', 'downvotes']

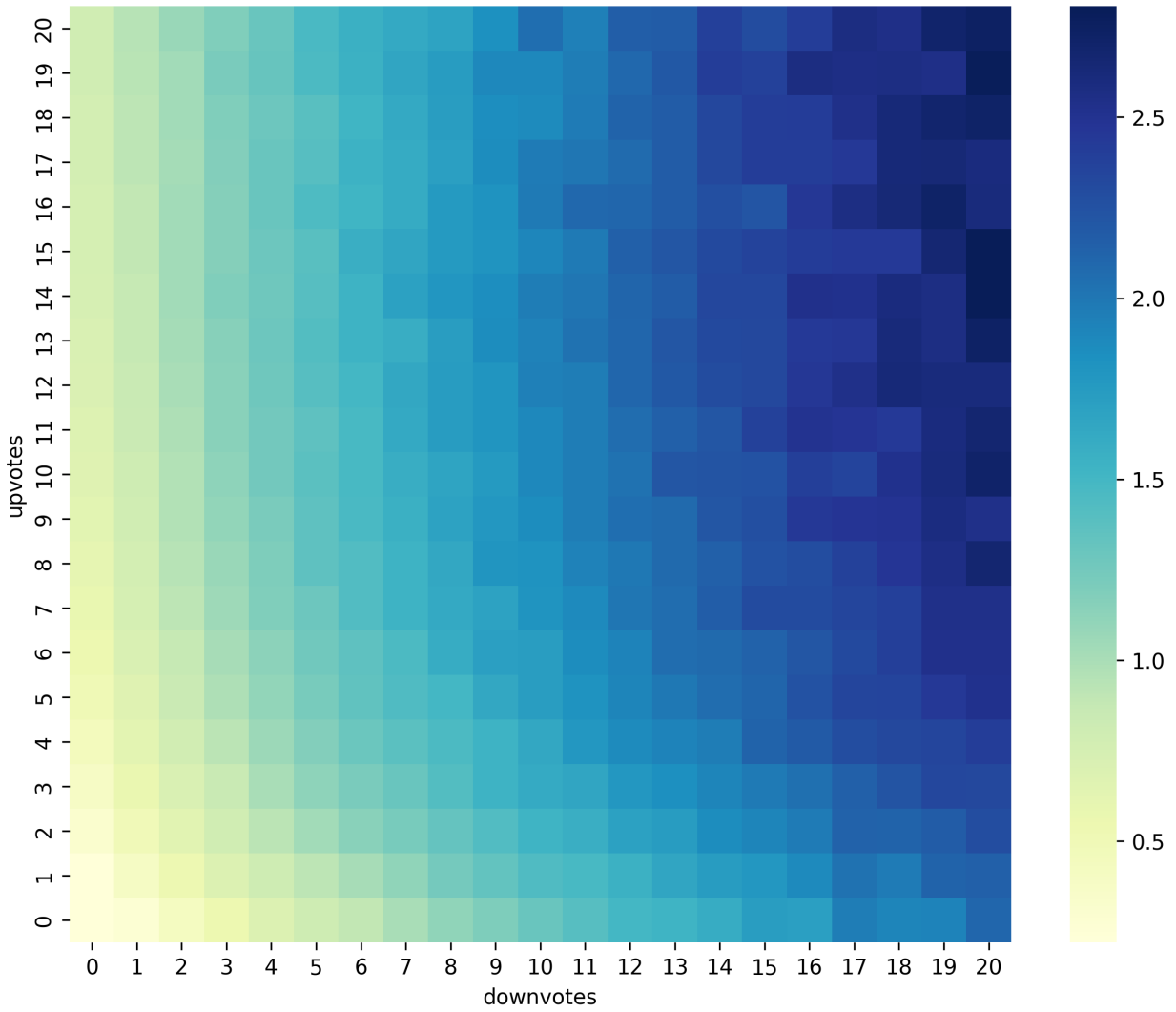
Heat Variable: number 0(n+1)-replies

Max Axis Values: [20, 20]

Min Axis Values: [0, 0]

Log Scaling: false

Plot saved at results/Fig_2c.png



Visualization: Fig_3a

Data: data_order0

Title: None

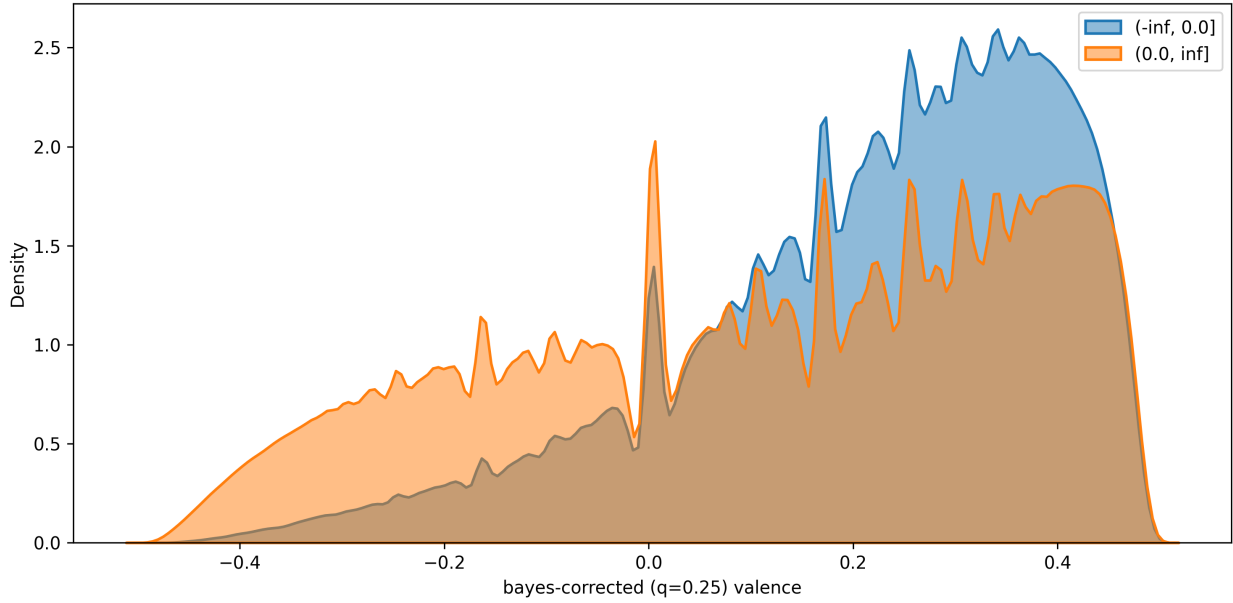
Creating Density Plot

Variable X: mean bayes-corrected ($q=0.25$) valence of replies

Variable Y: bayes-corrected ($q=0.25$) valence

Data Breakpoints: [0]

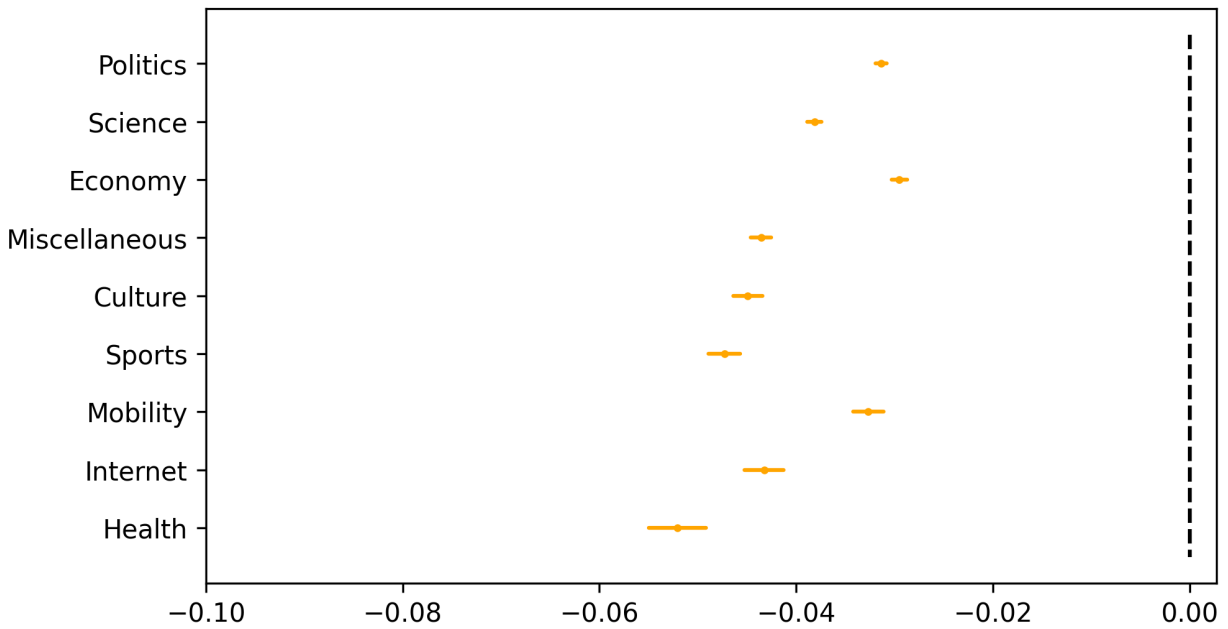
Plot saved at results/Fig_3a.png



Visualization: Fig_3b

```
Data: data
Title: None
Creating Forest Plot
Regression Model Names: ['Evidence_antagonism_section_politics', 'Evidence_antagonism_section_foreign_a
Coefficient Names: ['mean bayes-corrected (q=0.25) valence of replies']
X-Axis Minimum: -0.1
X-Axis Maximum: None
Dotsize: 2
```

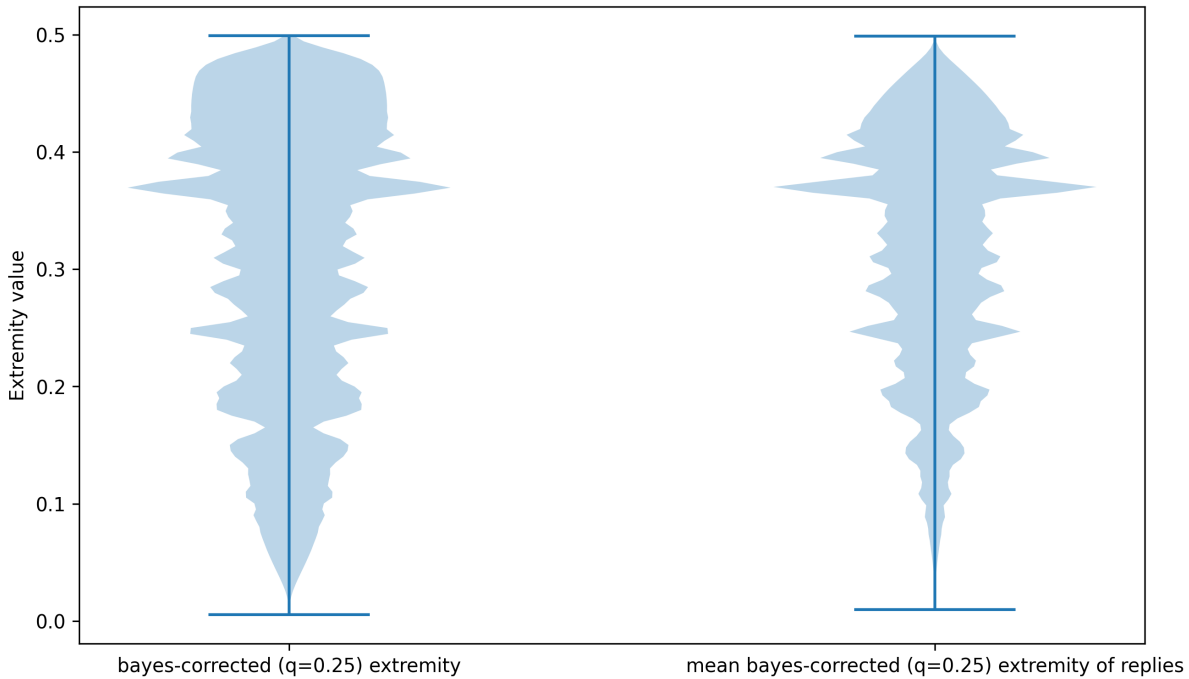
Plot saved at results/Fig_3b.png



Visualization: Fig_4a

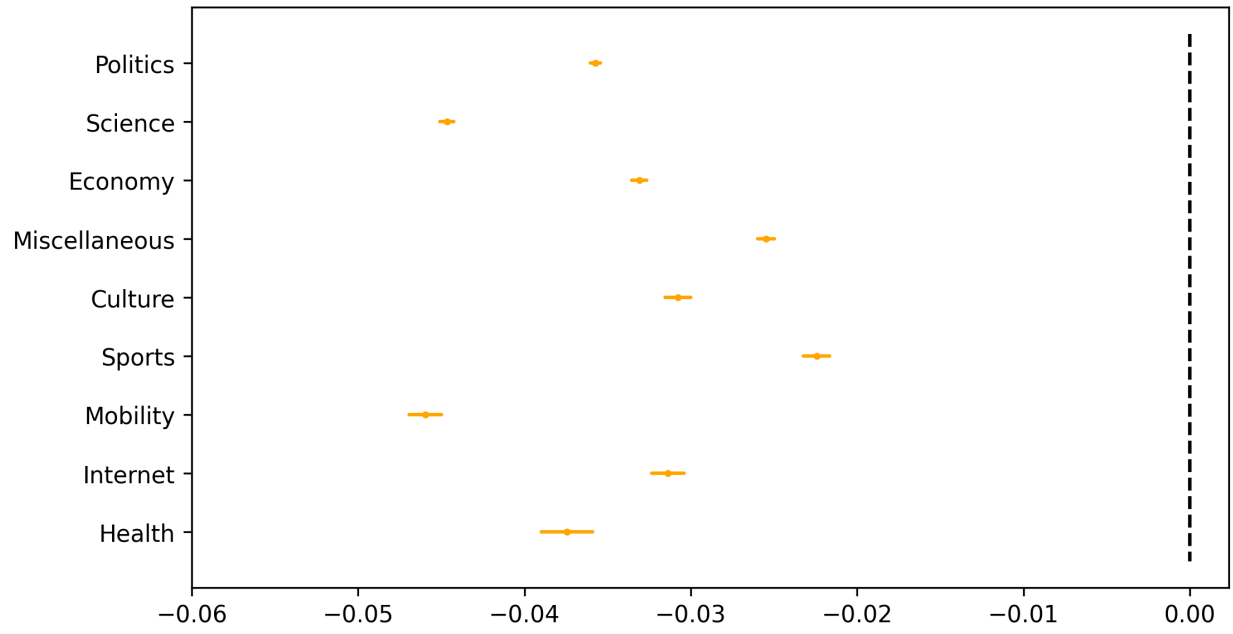
Data: data_order0
Title:
Creating Violin Plot
Variable X: bayes-corrected (q=0.25) extremity
Variable Y: mean bayes-corrected (q=0.25) extremity of replies
X-Axis Label:
Y-Axis Label: Extremity value
Plot saved at results/Fig_4a.png

Violin plot of bayes-corrected (q=0.25) extremity and mean bayes-corrected (q=0.25) extremity of replies



Visualization: Fig_4b

Data: data
Title: None
Creating Forest Plot Paired TTest
Paired TTest Names: ['Evidence_polarization_paired_ttest_extremity_politics', 'Evidence_polarization_pa...]
X-Axis Minimum: -0.06
X-Axis Maximum: None
Dotsize: 2
Plot saved at results/Fig_4b.png



Visualization: Extended_Fig_1

Data: data

Title:

Creating Histogram Plot

Variable: totalvotes

X-Axis Limits: None

X-Axis Logarithmic Scaling: False

Y-Axis Logarithmic Scaling: True

Plot saved at results/Extended_Fig_1.png

Histogram of totalvotes

