

R Notebook

```
# install.packages('vtable')
```

```
library(vtable)
```

```
## Loading required package: kableExtra
```

```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
```

```
## v dplyr      1.1.4      v readr      2.1.5
```

```
## v forcats 1.0.0    v stringr 1.5.1
```

```
## v ggplot2 3.5.0 v tibble 3.2.1
```

```
## v lubridate 1.9.3      v tidyr      1.3.1
```

```
## v purrr      1.0.2
```

```
## -- Conflicts ----- tidyverse_conflicts() --
```

```
## x dplyr::filter()      masks stats::filter()
```

```
## x dplyr::group_rows() masks kableExtra::group_rows()
```

```
## x dplyr::lag() masks stats::lag()
```

```
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(dplyr)
```

```
library(mice)
```

##

```
## Attaching package: 'mice'
```

##

```
## The following object is masked from 'package:stats':
```

##

```
##      filter
```

##

```
## The following objects are masked from 'package:base':
```

##

```
##      cbind, rbind
```

```
library(Synth)
```

##

```
## ## Synth Package: Implements Synthetic Control Methods.
```

##

```
## ## See https://web.stanford.edu/~jhain/synthpage.html for additional information.
```

```
data <- read.csv("https://docs.google.com/spreadsheets/d/e/2PACX-1vQPw6yEuH2geG6KCKyO8VcBoMgP1xg9RADG1:colnames(data)
```

```
## [1] "Country"
```

```
## [2] "Year"
```

```
## [3] "id"
```

```
## [4] "GDP.per.capita..constant.2015.US.."
```

```
## [5] "Foreign.direct.investment..net.inflows....of.GDP."
```

```

## [6] "Foreign.direct.investment..net.outflows....of.GDP."
## [7] "GDP.per.capita..current.US.."
## [8] "Trade....of.GDP."
## [9] "Political.Stability.and.Absence.of.Violence.Terrorism..Estimate"
## [10] "Government.expenditure.on.education..total....of.GDP."
## [11] "Individuals.using.the.Internet....of.population."
## [12] "Population..total"
## [13] "Taxes.on.international.trade....of.revenue."
## [14] "Taxes.on.international.trade..current.LCU."
## [15] "Real.interest.rate...."
## [16] "Foreign.direct.investment..net.inflows..BoP..current.US.."
## [17] "fdi_bop_per_capita"

```

data

##	Country	Year	id	GDP.per.capita..constant.2015.US..
## 1	Brazil	1990	1	6086.0776
## 2	Brazil	1991	1	6043.4326
## 3	Brazil	1992	1	5911.6870
## 4	Brazil	1993	1	6103.3772
## 5	Brazil	1994	1	6358.6788
## 6	Brazil	1995	1	6524.5189
## 7	Brazil	1996	1	6567.3525
## 8	Brazil	1997	1	6689.1994
## 9	Brazil	1998	1	6613.9832
## 10	Brazil	1999	1	6551.2267
## 11	Brazil	2000	1	6745.8578
## 12	Brazil	2001	1	6749.8816
## 13	Brazil	2002	1	6868.6959
## 14	Brazil	2003	1	6865.1732
## 15	Brazil	2004	1	7178.3475
## 16	Brazil	2005	1	7325.9035
## 17	Brazil	2006	1	7534.5425
## 18	Brazil	2007	1	7909.8252
## 19	Brazil	2008	1	8231.1004
## 20	Brazil	2009	1	8142.7610
## 21	Brazil	2010	1	8673.8984
## 22	Brazil	2011	1	8935.2773
## 23	Brazil	2012	1	9025.3140
## 24	Brazil	2013	1	9216.1323
## 25	Brazil	2014	1	9183.4597
## 26	Brazil	2015	1	8783.2154
## 27	Brazil	2016	1	8426.8432
## 28	Brazil	2017	1	8470.9406
## 29	Brazil	2018	1	8553.8659
## 30	Brazil	2019	1	8592.2112
## 31	Belize	1990	2	4112.3351
## 32	Belize	1991	2	4501.2366
## 33	Belize	1992	2	4972.2064
## 34	Belize	1993	2	5171.9974
## 35	Belize	1994	2	5060.4902
## 36	Belize	1995	2	4968.7932
## 37	Belize	1996	2	4873.2703
## 38	Belize	1997	2	4909.3831
## 39	Belize	1998	2	4923.8425

## 40	Belize 1999	2	5206.6518
## 41	Belize 2000	2	5657.4567
## 42	Belize 2001	2	5755.7570
## 43	Belize 2002	2	5879.6042
## 44	Belize 2003	2	6252.2207
## 45	Belize 2004	2	6355.3996
## 46	Belize 2005	2	6305.3506
## 47	Belize 2006	2	6399.1459
## 48	Belize 2007	2	6422.3043
## 49	Belize 2008	2	6147.6909
## 50	Belize 2009	2	5954.4056
## 51	Belize 2010	2	5879.7333
## 52	Belize 2011	2	5729.9921
## 53	Belize 2012	2	5807.2631
## 54	Belize 2013	2	5930.7324
## 55	Belize 2014	2	6034.4022
## 56	Belize 2015	2	6098.6001
## 57	Belize 2016	2	5974.3792
## 58	Belize 2017	2	5750.5036
## 59	Belize 2018	2	5699.0628
## 60	Belize 2019	2	5833.1736
## 61	Botswana 1990	3	3931.7302
## 62	Botswana 1991	3	4105.2986
## 63	Botswana 1992	3	4105.7656
## 64	Botswana 1993	3	4065.4876
## 65	Botswana 1994	3	4097.3065
## 66	Botswana 1995	3	4271.4709
## 67	Botswana 1996	3	4410.3889
## 68	Botswana 1997	3	4667.8859
## 69	Botswana 1998	3	4585.6741
## 70	Botswana 1999	3	4922.3739
## 71	Botswana 2000	3	4917.2321
## 72	Botswana 2001	3	4831.7838
## 73	Botswana 2002	3	5030.2652
## 74	Botswana 2003	3	5171.5413
## 75	Botswana 2004	3	5219.4145
## 76	Botswana 2005	3	5360.0192
## 77	Botswana 2006	3	5700.2199
## 78	Botswana 2007	3	5913.0699
## 79	Botswana 2008	3	5982.6620
## 80	Botswana 2009	3	5031.9836
## 81	Botswana 2010	3	5428.2962
## 82	Botswana 2011	3	5684.3579
## 83	Botswana 2012	3	5566.6818
## 84	Botswana 2013	3	6067.9984
## 85	Botswana 2014	3	6291.2718
## 86	Botswana 2015	3	5869.7376
## 87	Botswana 2016	3	6166.2399
## 88	Botswana 2017	3	6287.8347
## 89	Botswana 2018	3	6418.7064
## 90	Botswana 2019	3	6485.5682
## 91	Costa Rica 1990	4	5967.1909
## 92	Costa Rica 1991	4	5949.4963
## 93	Costa Rica 1992	4	6335.5166

## 94	Costa Rica 1993	4	6618.9211
## 95	Costa Rica 1994	4	6751.9193
## 96	Costa Rica 1995	4	6867.6377
## 97	Costa Rica 1996	4	6801.6554
## 98	Costa Rica 1997	4	7014.5301
## 99	Costa Rica 1998	4	7355.1536
## 100	Costa Rica 1999	4	7507.9654
## 101	Costa Rica 2000	4	7646.0274
## 102	Costa Rica 2001	4	7768.4390
## 103	Costa Rica 2002	4	7898.6331
## 104	Costa Rica 2003	4	8109.8249
## 105	Costa Rica 2004	4	8340.8299
## 106	Costa Rica 2005	4	8545.7473
## 107	Costa Rica 2006	4	9041.3868
## 108	Costa Rica 2007	4	9647.8609
## 109	Costa Rica 2008	4	9966.0484
## 110	Costa Rica 2009	4	9746.4907
## 111	Costa Rica 2010	4	10137.5822
## 112	Costa Rica 2011	4	10453.5226
## 113	Costa Rica 2012	4	10832.7568
## 114	Costa Rica 2013	4	10975.6964
## 115	Costa Rica 2014	4	11240.7116
## 116	Costa Rica 2015	4	11529.9552
## 117	Costa Rica 2016	4	11893.3232
## 118	Costa Rica 2017	4	12267.1620
## 119	Costa Rica 2018	4	12470.9574
## 120	Costa Rica 2019	4	12662.4229
## 121	Cuba 1990	5	4963.8474
## 122	Cuba 1991	5	4397.0254
## 123	Cuba 1992	5	3862.6096
## 124	Cuba 1993	5	3270.5797
## 125	Cuba 1994	5	3280.0272
## 126	Cuba 1995	5	3348.4766
## 127	Cuba 1996	5	3598.9898
## 128	Cuba 1997	5	3687.3599
## 129	Cuba 1998	5	3681.3025
## 130	Cuba 1999	5	3896.2981
## 131	Cuba 2000	5	4113.4903
## 132	Cuba 2001	5	4231.8037
## 133	Cuba 2002	5	4280.2167
## 134	Cuba 2003	5	4430.9845
## 135	Cuba 2004	5	4675.7888
## 136	Cuba 2005	5	5189.9286
## 137	Cuba 2006	5	5808.6407
## 138	Cuba 2007	5	6225.3545
## 139	Cuba 2008	5	6477.7779
## 140	Cuba 2009	5	6567.9602
## 141	Cuba 2010	5	6720.6499
## 142	Cuba 2011	5	6903.9117
## 143	Cuba 2012	5	7105.4043
## 144	Cuba 2013	5	7292.7081
## 145	Cuba 2014	5	7362.3113
## 146	Cuba 2015	5	7683.7403
## 147	Cuba 2016	5	7721.7036

## 148	Cuba	2017	5	7865.3386
## 149	Cuba	2018	5	8047.9410
## 150	Cuba	2019	5	8043.0142
## 151	Dominica	1990	6	5029.7762
## 152	Dominica	1991	6	5122.6329
## 153	Dominica	1992	6	5228.7858
## 154	Dominica	1993	6	5337.3995
## 155	Dominica	1994	6	5337.0024
## 156	Dominica	1995	6	5498.5212
## 157	Dominica	1996	6	5672.0752
## 158	Dominica	1997	6	5803.1773
## 159	Dominica	1998	6	6034.6944
## 160	Dominica	1999	6	6077.2192
## 161	Dominica	2000	6	6251.4712
## 162	Dominica	2001	6	6265.1720
## 163	Dominica	2002	6	6078.2717
## 164	Dominica	2003	6	6447.4314
## 165	Dominica	2004	6	6631.3331
## 166	Dominica	2005	6	6665.1060
## 167	Dominica	2006	6	6968.7632
## 168	Dominica	2007	6	7407.9306
## 169	Dominica	2008	6	7934.6461
## 170	Dominica	2009	6	7841.2732
## 171	Dominica	2010	6	7897.6903
## 172	Dominica	2011	6	7881.5252
## 173	Dominica	2012	6	7781.5328
## 174	Dominica	2013	6	7711.4460
## 175	Dominica	2014	6	8013.7531
## 176	Dominica	2015	6	7724.0424
## 177	Dominica	2016	6	7929.8053
## 178	Dominica	2017	6	7370.4331
## 179	Dominica	2018	6	7586.6461
## 180	Dominica	2019	6	7936.3048
## 181	Dominican Republic	1990	7	2802.8215
## 182	Dominican Republic	1991	7	2771.2095
## 183	Dominican Republic	1992	7	3020.3594
## 184	Dominican Republic	1993	7	3179.1315
## 185	Dominican Republic	1994	7	3199.3592
## 186	Dominican Republic	1995	7	3318.6051
## 187	Dominican Republic	1996	7	3454.4087
## 188	Dominican Republic	1997	7	3697.7637
## 189	Dominican Republic	1998	7	3883.1335
## 190	Dominican Republic	1999	7	4050.5815
## 191	Dominican Republic	2000	7	4175.1710
## 192	Dominican Republic	2001	7	4214.5738
## 193	Dominican Republic	2002	7	4340.8999
## 194	Dominican Republic	2003	7	4222.5903
## 195	Dominican Republic	2004	7	4272.0752
## 196	Dominican Republic	2005	7	4612.8087
## 197	Dominican Republic	2006	7	4971.2382
## 198	Dominican Republic	2007	7	5272.8641
## 199	Dominican Republic	2008	7	5373.0963
## 200	Dominican Republic	2009	7	5353.5982
## 201	Dominican Republic	2010	7	5724.3073

## 202	Dominican Republic	2011	7	5827.3833
## 203	Dominican Republic	2012	7	5909.8634
## 204	Dominican Republic	2013	7	6120.9912
## 205	Dominican Republic	2014	7	6472.8491
## 206	Dominican Republic	2015	7	6838.9367
## 207	Dominican Republic	2016	7	7209.9902
## 208	Dominican Republic	2017	7	7461.6533
## 209	Dominican Republic	2018	7	7894.9552
## 210	Dominican Republic	2019	7	8205.1426
## 211	Ecuador	1990	8	4180.3383
## 212	Ecuador	1991	8	4263.2686
## 213	Ecuador	1992	8	4262.4867
## 214	Ecuador	1993	8	4261.2440
## 215	Ecuador	1994	8	4358.5935
## 216	Ecuador	1995	8	4374.2687
## 217	Ecuador	1996	8	4369.3210
## 218	Ecuador	1997	8	4477.5709
## 219	Ecuador	1998	8	4543.5365
## 220	Ecuador	1999	8	4254.1512
## 221	Ecuador	2000	8	4227.5525
## 222	Ecuador	2001	8	4322.3419
## 223	Ecuador	2002	8	4421.9344
## 224	Ecuador	2003	8	4463.5972
## 225	Ecuador	2004	8	4746.8072
## 226	Ecuador	2005	8	4912.5275
## 227	Ecuador	2006	8	5041.3338
## 228	Ecuador	2007	8	5063.9845
## 229	Ecuador	2008	8	5294.8993
## 230	Ecuador	2009	8	5236.0537
## 231	Ecuador	2010	8	5331.3838
## 232	Ecuador	2011	8	5657.2130
## 233	Ecuador	2012	8	5881.3812
## 234	Ecuador	2013	8	6078.4396
## 235	Ecuador	2014	8	6215.8381
## 236	Ecuador	2015	8	6130.5867
## 237	Ecuador	2016	8	5965.6433
## 238	Ecuador	2017	8	6012.8033
## 239	Ecuador	2018	8	5976.2453
## 240	Ecuador	2019	8	5863.9106
## 241	Equitorial Guniea	1990	9	373.1796
## 242	Equitorial Guniea	1991	9	355.9149
## 243	Equitorial Guniea	1992	9	462.1761
## 244	Equitorial Guniea	1993	9	494.5237
## 245	Equitorial Guniea	1994	9	555.8468
## 246	Equitorial Guniea	1995	9	628.8803
## 247	Equitorial Guniea	1996	9	1008.3284
## 248	Equitorial Guniea	1997	9	2424.8285
## 249	Equitorial Guniea	1998	9	2886.1531
## 250	Equitorial Guniea	1999	9	3486.7989
## 251	Equitorial Guniea	2000	9	3941.6635
## 252	Equitorial Guniea	2001	9	6132.8473
## 253	Equitorial Guniea	2002	9	6987.9427
## 254	Equitorial Guniea	2003	9	7604.4807
## 255	Equitorial Guniea	2004	9	10028.3544

## 256	Equitorial Guniea 2005	9	11188.4486
## 257	Equitorial Guniea 2006	9	11508.9260
## 258	Equitorial Guniea 2007	9	12660.9055
## 259	Equitorial Guniea 2008	9	14222.5489
## 260	Equitorial Guniea 2009	9	13740.8400
## 261	Equitorial Guniea 2010	9	11933.3111
## 262	Equitorial Guniea 2011	9	12155.8188
## 263	Equitorial Guniea 2012	9	12625.2960
## 264	Equitorial Guniea 2013	9	11614.0030
## 265	Equitorial Guniea 2014	9	11200.8107
## 266	Equitorial Guniea 2015	9	9788.9838
## 267	Equitorial Guniea 2016	9	8594.4502
## 268	Equitorial Guniea 2017	9	7818.0536
## 269	Equitorial Guniea 2018	9	7079.6505
## 270	Equitorial Guniea 2019	9	6472.0709
## 271	Gabon 1990	10	8360.2630
## 272	Gabon 1991	10	8634.4199
## 273	Gabon 1992	10	8146.1955
## 274	Gabon 1993	10	8245.5915
## 275	Gabon 1994	10	8331.0498
## 276	Gabon 1995	10	8524.4192
## 277	Gabon 1996	10	8613.5806
## 278	Gabon 1997	10	8882.4029
## 279	Gabon 1998	10	8963.2050
## 280	Gabon 1999	10	7959.0648
## 281	Gabon 2000	10	7611.8357
## 282	Gabon 2001	10	7574.1149
## 283	Gabon 2002	10	7357.5667
## 284	Gabon 2003	10	7322.6061
## 285	Gabon 2004	10	7171.6835
## 286	Gabon 2005	10	7155.3655
## 287	Gabon 2006	10	6750.0508
## 288	Gabon 2007	10	6937.4851
## 289	Gabon 2008	10	6497.4812
## 290	Gabon 2009	10	6295.1991
## 291	Gabon 2010	10	6514.7312
## 292	Gabon 2011	10	6735.0829
## 293	Gabon 2012	10	6840.9486
## 294	Gabon 2013	10	6977.7703
## 295	Gabon 2014	10	7039.6821
## 296	Gabon 2015	10	7090.4546
## 297	Gabon 2016	10	7038.5773
## 298	Gabon 2017	10	6893.3843
## 299	Gabon 2018	10	6786.8903
## 300	Gabon 2019	10	6893.3231
## 301	Grenada 1990	11	5149.5730
## 302	Grenada 1991	11	5183.7119
## 303	Grenada 1992	11	5074.3794
## 304	Grenada 1993	11	4919.8139
## 305	Grenada 1994	11	4954.5931
## 306	Grenada 1995	11	5017.0166
## 307	Grenada 1996	11	5200.4032
## 308	Grenada 1997	11	5424.8551
## 309	Grenada 1998	11	6025.3030

## 310	Grenada 1999 11	6403.3861
## 311	Grenada 2000 11	6678.3074
## 312	Grenada 2001 11	6512.5924
## 313	Grenada 2002 11	6718.0900
## 314	Grenada 2003 11	7319.4655
## 315	Grenada 2004 11	7220.5477
## 316	Grenada 2005 11	8124.4129
## 317	Grenada 2006 11	7748.2332
## 318	Grenada 2007 11	8168.4510
## 319	Grenada 2008 11	8190.6476
## 320	Grenada 2009 11	7596.9027
## 321	Grenada 2010 11	7505.7132
## 322	Grenada 2011 11	7505.2652
## 323	Grenada 2012 11	7354.9736
## 324	Grenada 2013 11	7461.4007
## 325	Grenada 2014 11	7939.5021
## 326	Grenada 2015 11	8379.6218
## 327	Grenada 2016 11	8621.5389
## 328	Grenada 2017 11	8933.1082
## 329	Grenada 2018 11	9252.5540
## 330	Grenada 2019 11	9247.8984
## 331	Guatemala 1990 12	2733.8612
## 332	Guatemala 1991 12	2758.6734
## 333	Guatemala 1992 12	2817.2256
## 334	Guatemala 1993 12	2854.1274
## 335	Guatemala 1994 12	2896.2178
## 336	Guatemala 1995 12	2965.8860
## 337	Guatemala 1996 12	2981.1150
## 338	Guatemala 1997 12	3038.7076
## 339	Guatemala 1998 12	3115.9713
## 340	Guatemala 1999 12	3160.0733
## 341	Guatemala 2000 12	3195.3881
## 342	Guatemala 2001 12	3192.3024
## 343	Guatemala 2002 12	3239.5608
## 344	Guatemala 2003 12	3250.8348
## 345	Guatemala 2004 12	3282.3146
## 346	Guatemala 2005 12	3320.1576
## 347	Guatemala 2006 12	3427.6716
## 348	Guatemala 2007 12	3573.5926
## 349	Guatemala 2008 12	3620.8234
## 350	Guatemala 2009 12	3570.2958
## 351	Guatemala 2010 12	3606.4235
## 352	Guatemala 2011 12	3688.8589
## 353	Guatemala 2012 12	3731.6685
## 354	Guatemala 2013 12	3802.1464
## 355	Guatemala 2014 12	3903.0520
## 356	Guatemala 2015 12	3994.6291
## 357	Guatemala 2016 12	4034.1506
## 358	Guatemala 2017 12	4091.2600
## 359	Guatemala 2018 12	4163.4763
## 360	Guatemala 2019 12	4263.7084
## 361	Guyana 1990 13	2386.0572
## 362	Guyana 1991 13	2540.8720
## 363	Guyana 1992 13	2734.6750

## 364	Guyana 1993 13	2949.5631
## 365	Guyana 1994 13	3191.1658
## 366	Guyana 1995 13	3342.1721
## 367	Guyana 1996 13	3599.0482
## 368	Guyana 1997 13	3813.1947
## 369	Guyana 1998 13	3741.8046
## 370	Guyana 1999 13	3845.8741
## 371	Guyana 2000 13	3788.2414
## 372	Guyana 2001 13	3870.7298
## 373	Guyana 2002 13	3911.9244
## 374	Guyana 2003 13	3885.9707
## 375	Guyana 2004 13	3947.4383
## 376	Guyana 2005 13	3874.0681
## 377	Guyana 2006 13	4079.9999
## 378	Guyana 2007 13	4384.0739
## 379	Guyana 2008 13	4475.0494
## 380	Guyana 2009 13	4654.5152
## 381	Guyana 2010 13	4868.6945
## 382	Guyana 2011 13	5147.1608
## 383	Guyana 2012 13	5420.6648
## 384	Guyana 2013 13	5592.7372
## 385	Guyana 2014 13	5659.0818
## 386	Guyana 2015 13	5668.4298
## 387	Guyana 2016 13	5852.8116
## 388	Guyana 2017 13	6038.2534
## 389	Guyana 2018 13	6127.6791
## 390	Guyana 2019 13	6348.6837
## 391	Jamaica 1990 14	4503.5041
## 392	Jamaica 1991 14	4682.5621
## 393	Jamaica 1992 14	4729.6039
## 394	Jamaica 1993 14	5123.4615
## 395	Jamaica 1994 14	5141.8139
## 396	Jamaica 1995 14	5209.8159
## 397	Jamaica 1996 14	5155.5643
## 398	Jamaica 1997 14	5052.7606
## 399	Jamaica 1998 14	4893.4066
## 400	Jamaica 1999 14	4907.1467
## 401	Jamaica 2000 14	4920.0702
## 402	Jamaica 2001 14	4961.1719
## 403	Jamaica 2002 14	5035.6352
## 404	Jamaica 2003 14	5195.0860
## 405	Jamaica 2004 14	5238.1738
## 406	Jamaica 2005 14	5259.6442
## 407	Jamaica 2006 14	5386.3778
## 408	Jamaica 2007 14	5440.1249
## 409	Jamaica 2008 14	5375.7616
## 410	Jamaica 2009 14	5121.3385
## 411	Jamaica 2010 14	5025.4935
## 412	Jamaica 2011 14	5089.6052
## 413	Jamaica 2012 14	5033.3586
## 414	Jamaica 2013 14	5035.1286
## 415	Jamaica 2014 14	5049.0804
## 416	Jamaica 2015 14	5077.5510
## 417	Jamaica 2016 14	5132.2268

## 418	Jamaica 2017 14	5172.9161
## 419	Jamaica 2018 14	5264.1965
## 420	Jamaica 2019 14	5307.5104
## 421	Maldives 1990 15	NA
## 422	Maldives 1991 15	NA
## 423	Maldives 1992 15	NA
## 424	Maldives 1993 15	NA
## 425	Maldives 1994 15	NA
## 426	Maldives 1995 15	5556.2574
## 427	Maldives 1996 15	5864.9557
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## 257	11140.1902	118.53278
## 258	13776.9033	134.08379
## 259	19849.7178	128.68801
## 260	14398.7705	122.21208
## 261	14905.5146	144.66823
## 262	18659.4160	114.37735
## 263	18756.4250	116.67542
## 264	17644.5943	106.89328
## 265	16804.9249	104.37920
## 266	9788.9838	98.87806
## 267	8035.3077	92.60073
## 268	8410.3980	102.42826
## 269	8719.1869	103.64568
## 270	7317.3900	94.87879
## 271	6055.0602	76.89745
## 272	5349.4520	80.53494
## 273	5390.5368	79.86884
## 274	4109.8988	83.34304
## 275	3832.0933	99.92669
## 276	4419.7903	95.13470
## 277	4948.7529	95.67090
## 278	4514.9941	98.53626
## 279	3705.8181	95.97478
## 280	3758.1619	97.73145
## 281	3991.1572	101.70193
## 282	3844.5613	83.63861
## 283	3976.6468	84.75908
## 284	4724.2548	80.30261
## 285	5483.1446	81.76754
## 286	6570.9633	83.94960
## 287	6873.4540	88.64941
## 288	8036.9200	85.13248
## 289	9732.2265	88.99887
## 290	7325.9095	83.50458
## 291	8399.5973	89.15766
## 292	10273.7984	90.49838
## 293	9348.5149	92.34281
## 294	9250.0811	90.63504
## 295	9255.3680	73.52033
## 296	7090.4546	73.94978
## 297	6722.1982	70.13338
## 298	6975.6952	75.06874
## 299	7694.9061	77.03660
## 300	7523.8623	73.42809
## 301	2807.7454	NA
## 302	3014.8749	NA
## 303	3069.6798	NA
## 304	3032.2315	NA
## 305	3151.1022	NA
## 306	3288.2233	NA

## 307	3499.5273	NA
## 308	3715.7206	NA
## 309	4198.7156	NA
## 310	4512.2246	NA
## 311	4840.6841	NA
## 312	4821.7850	NA
## 313	4992.4414	NA
## 314	5435.1518	NA
## 315	5470.6033	NA
## 316	6308.6650	NA
## 317	6295.2812	NA
## 318	6790.6341	NA
## 319	7343.4453	NA
## 320	6810.4403	NA
## 321	6760.9749	NA
## 322	6775.7493	NA
## 323	6900.7651	NA
## 324	7205.2548	NA
## 325	7726.3783	NA
## 326	8379.6218	NA
## 327	8849.5135	NA
## 328	9309.2613	NA
## 329	9574.3103	NA
## 330	9887.9207	NA
## 331	845.3149	45.86949
## 332	1011.7590	39.52026
## 333	1093.9566	45.36225
## 334	1164.3817	43.77893
## 335	1293.4700	42.37089
## 336	1424.6825	44.68943
## 337	1487.6077	40.39295
## 338	1649.0016	41.55195
## 339	1755.8496	44.42374
## 340	1619.5107	46.36051
## 341	1664.3077	49.14559
## 342	1550.3617	70.66903
## 343	1682.9945	67.10481
## 344	1737.8793	67.00234
## 345	1859.0993	70.21487
## 346	2068.4882	67.10370
## 347	2251.0788	67.91192
## 348	2490.7478	69.00136
## 349	2802.4516	65.17873
## 350	2651.8317	58.04069
## 351	2852.5576	63.12519
## 352	3228.0383	65.04705
## 353	3355.0348	61.95942
## 354	3522.7674	56.68522
## 355	3779.6262	55.08328
## 356	3994.6291	49.89345
## 357	4173.2813	46.37274
## 358	4454.0245	46.06942
## 359	4485.7521	47.01168
## 360	4647.8075	45.51674

## 361	530.8175	142.56623
## 362	468.3980	222.60909
## 363	501.4418	274.97312
## 364	607.7463	245.36944
## 365	721.6034	222.06784
## 366	826.9734	213.32717
## 367	936.0843	211.33753
## 368	991.9586	209.13667
## 369	948.2404	203.84243
## 370	916.5464	201.05931
## 371	938.8933	206.76737
## 372	937.2980	199.57700
## 373	955.0302	196.72508
## 374	976.9933	189.16249
## 375	1036.0199	200.72529
## 376	1085.7849	194.35076
## 377	3138.0822	NA
## 378	3609.9085	NA
## 379	4011.3869	NA
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## 383	5461.3901	NA
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## 385	5495.3771	NA
## 386	5668.4298	NA
## 387	5905.3802	NA
## 388	6220.9786	NA
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## 391	1919.7954	99.94017
## 392	1702.5017	101.59879
## 393	1452.1884	125.49433
## 394	2212.2564	82.84213
## 395	2194.9112	111.40668
## 396	2621.1820	107.65181
## 397	2919.1478	97.72424
## 398	3287.7468	88.98483
## 399	3410.4278	84.47499
## 400	3423.0086	84.23175
## 401	3447.3039	89.51301
## 402	3502.2131	84.82773
## 403	3683.8933	81.84676
## 404	3557.2006	88.15063
## 405	3819.2842	89.31810
## 406	4200.3890	90.48789
## 407	4435.5714	100.74560
## 408	4738.4498	101.24442
## 409	5056.2580	113.57740
## 410	4452.1208	86.88512
## 411	4835.7911	80.92040
## 412	5259.9318	83.82182
## 413	5365.2422	82.04008
## 414	5143.7222	83.25957

## 415	4991.5615	84.74100
## 416	5077.5510	76.11752
## 417	5022.7002	76.45520
## 418	5273.1490	83.52317
## 419	5594.4936	89.97791
## 420	5626.1705	90.11061
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## 440	6719.3303	NA
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## 443	7447.4156	NA
## 444	8222.5580	NA
## 445	8872.1284	NA
## 446	9480.4315	NA
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## 450	11349.8593	NA
## 451	2506.1849	137.11207
## 452	2669.3263	128.35413
## 453	2973.2054	121.85153
## 454	2973.7936	122.52412
## 455	3197.3369	122.18341
## 456	3599.5517	119.73949
## 457	3899.4424	127.85784
## 458	3646.6379	127.80543
## 459	3593.2416	132.19913
## 460	3695.9337	130.69126
## 461	3929.0818	122.31260
## 462	3856.6308	129.77872
## 463	4018.9489	119.82234
## 464	4793.7225	110.11853
## 465	5388.0625	108.46873
## 466	5282.9001	123.24610
## 467	5695.9753	127.06286
## 468	6574.6636	120.87645

## 469	8030.0523	115.48932
## 470	7318.1264	104.42973
## 471	8000.3764	113.45707
## 472	9197.0430	117.53895
## 473	9291.2363	119.50012
## 474	9764.6441	113.30565
## 475	10366.3551	110.58971
## 476	9507.8713	107.14598
## 477	9965.7253	101.36611
## 478	10841.6848	101.25026
## 479	11643.4606	98.08718
## 480	11403.2528	96.49195
## 481	3196.9201	38.51970
## 482	3756.8526	35.78654
## 483	4272.7887	35.55350
## 484	6118.5259	26.16312
## 485	6268.7183	29.15847
## 486	4225.4004	43.66583
## 487	4718.5741	47.76782
## 488	5617.4302	46.49188
## 489	5882.4214	48.03188
## 490	6552.6611	48.01225
## 491	7581.8456	49.91041
## 492	8009.1583	44.74011
## 493	8032.9921	45.20983
## 494	7473.9324	48.70042
## 495	7883.5232	52.04062
## 496	8702.1145	52.56264
## 497	9545.2867	54.48212
## 498	10178.4422	55.25852
## 499	10589.9519	56.36528
## 500	8495.6531	54.59174
## 501	9823.1641	59.27338
## 502	10766.6099	62.16239
## 503	10842.7331	64.25793
## 504	11317.4911	62.69167
## 505	11490.0217	64.09841
## 506	10098.1732	70.41297
## 507	9152.7372	75.69030
## 508	9693.3301	76.95213
## 509	10130.3207	80.21266
## 510	10434.5784	77.39632
## 511	2037.9105	93.75925
## 512	2117.0057	93.86473
## 513	2346.2764	91.97346
## 514	2153.3419	96.09558
## 515	2352.6619	89.49368
## 516	2478.2537	93.56085
## 517	2417.5780	96.54422
## 518	2453.8666	92.84109
## 519	2231.1145	92.13050
## 520	2175.4495	91.10021
## 521	2156.0902	85.13224
## 522	1916.2559	88.58410

## 523	1773.4316	94.41522
## 524	2571.9824	95.95247
## 525	3407.8506	81.86226
## 526	3692.7526	80.68038
## 527	4027.9617	86.83397
## 528	4394.5173	104.97930
## 529	4222.3262	119.64450
## 530	4322.6293	123.76284
## 531	5445.4201	108.07248
## 532	5873.0594	102.18915
## 533	6017.1784	100.21341
## 534	5463.0314	97.72490
## 535	5544.1041	103.08014
## 536	4965.6728	97.23903
## 537	4614.8921	93.96619
## 538	5453.5706	81.21967
## 539	5687.3810	81.71387
## 540	5126.1761	82.90115
## 541	1431.8392	91.30834
## 542	1675.7136	89.13932
## 543	1673.4484	89.49756
## 544	1652.8043	113.60376
## 545	1750.9355	123.07933
## 546	1968.3525	118.06407
## 547	2077.4848	103.03527
## 548	2068.2084	95.93428
## 549	1880.8932	101.60632
## 550	1758.2602	77.55528
## 551	1728.3407	78.64473
## 552	1630.1908	72.60570
## 553	1361.2493	79.44157
## 554	1436.7649	81.12736
## 555	1776.9323	80.10445
## 556	1960.5148	85.02196
## 557	2426.4171	84.73353
## 558	3194.2630	79.00114
## 559	4360.4291	80.77757
## 560	3920.1861	70.84198
## 561	4725.7263	81.25752
## 562	5776.2818	78.49212
## 563	5617.1049	74.76496
## 564	6410.8147	73.36987
## 565	6629.4170	69.08372
## 566	5861.4019	66.91507
## 567	5759.0422	67.75932
## 568	6136.0583	71.08013
## 569	6242.9615	72.06922
## 570	5807.8388	71.22216
## 571	1194.5483	29.46968
## 572	1520.6774	26.65925
## 573	1560.5465	27.97729
## 574	1481.3410	28.76659
## 575	1871.3921	28.92300
## 576	2180.5666	30.92722

## 577	2218.3217	31.65420
## 578	2292.3965	33.46955
## 579	2149.7011	32.95302
## 580	1911.7350	33.20578
## 581	1941.3183	35.53803
## 582	1925.9794	35.06440
## 583	2003.9711	35.24918
## 584	2126.1378	37.62461
## 585	2393.6659	41.93608
## 586	2702.2377	47.35732
## 587	3123.3202	51.78506
## 588	3572.3636	55.68811
## 589	4184.8860	58.43377
## 590	4164.9705	48.11193
## 591	5047.2046	51.67281
## 592	5826.8323	55.98828
## 593	6475.7204	52.61990
## 594	6697.1877	49.78714
## 595	6614.8308	46.85312
## 596	6180.1193	45.16277
## 597	6163.8604	45.38884
## 598	6676.3088	47.51355
## 599	6912.1040	48.63147
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## 601	4073.2646	NA
## 602	4253.9143	NA
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## 604	4608.5993	NA
## 605	4740.2960	NA
## 606	5008.0274	NA
## 607	5123.6865	NA
## 608	5184.3370	NA
## 609	5593.7484	NA
## 610	5825.0673	NA
## 611	5846.9755	NA
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## 615	6494.6003	NA
## 616	6866.0924	NA
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## 618	7975.7925	NA
## 619	8528.6821	NA
## 620	8259.3223	NA
## 621	8672.2157	NA
## 622	9110.7518	NA
## 623	9231.5763	NA
## 624	9542.7136	NA
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## 631	2136.8395	NA
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## 633	2454.9607	NA
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## 636	2767.7703	NA
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## 647	5775.0917	NA
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## 650	6503.0978	NA
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## 652	6566.4827	NA
## 653	6754.3702	NA
## 654	7117.5548	NA
## 655	7210.6031	NA
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## 657	7684.7928	NA
## 658	7996.6370	NA
## 659	8399.7077	NA
## 660	8680.2511	NA
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## 663	964.4332	NA
## 664	1015.1280	NA
## 665	1419.5179	NA
## 666	1591.7294	NA
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## 671	1978.4466	NA
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## 676	3474.1203	NA
## 677	5031.1585	98.16819
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## 679	6616.8151	109.16684
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## 681	7999.5074	90.96139
## 682	8009.2523	NA
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## 687	5705.3995	NA
## 688	6112.8830	NA
## 689	6730.8370	NA
## 690	6690.0448	NA
## 691	3160.8782	38.21180
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## 693	3519.0013	34.32135
## 694	3461.3339	35.69812
## 695	3547.9517	37.11461
## 696	3904.3242	39.47803
## 697	3654.9276	42.19925
## 698	3731.4316	42.30133
## 699	3336.4396	44.03575
## 700	3267.9392	42.25830
## 701	3241.6614	46.22072
## 702	2867.4725	49.17095
## 703	2708.4233	53.46550
## 704	4095.6837	45.72386
## 705	5268.2786	45.64358
## 706	5893.1871	47.42778
## 707	6139.5816	53.76814
## 708	6662.0628	57.12514
## 709	6251.8774	65.97452
## 710	6444.1868	49.58754
## 711	8059.5628	50.40609
## 712	8737.0413	54.63635
## 713	8173.8691	55.58262
## 714	7441.2309	58.87503
## 715	6965.1379	59.49957
## 716	6204.9299	56.72668
## 717	5735.0668	55.86126
## 718	6734.4752	53.53593
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##	Political.Stability.and.Absence.of.Violence.Terrorism..Estimate	
## 1		NA
## 2		NA
## 3		NA
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## 6		NA
## 7		-0.2204601318
## 8		NA
## 9		-0.3395057917
## 10		NA
## 11		0.1841016263
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## 13		0.3278002739
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## 15		-0.2759928107
## 16		-0.2633797526
## 17		-0.2949111164

## 18	-0.3579480946
## 19	-0.3134247065
## 20	0.1636642218
## 21	0.0134759108
## 22	-0.1325754225
## 23	0.0459616408
## 24	-0.2585532963
## 25	-0.0702901334
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## 27	-0.3810350597
## 28	-0.4800939560
## 29	-0.4596401453
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## 37	0.5591521263
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## 39	0.5966299772
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## 41	0.1842207164
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## 43	0.4179925621
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## 45	0.4015619159
## 46	0.1049117446
## 47	0.0819770396
## 48	0.1949215829
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## 50	0.0284302048
## 51	0.0704276860
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## 54	0.1761892587
## 55	0.0485830754
## 56	0.0372595117
## 57	0.0521895513
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## 60	0.0619343854
## 61	NA
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## 72	NA
## 73	0.8732644320
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## 75	0.9166887403
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## 78	1.0561391120
## 79	1.0331056120
## 80	0.9538612366
## 81	0.9912098050
## 82	1.0644465680
## 83	1.1040414570
## 84	1.1023470160
## 85	1.0118471380
## 86	1.0313682560
## 87	0.9791980386
## 88	1.0092943910
## 89	0.9582737684
## 90	1.0952074530
## 91	NA
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## 93	NA
## 94	NA
## 95	NA
## 96	NA
## 97	0.7530514002
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## 99	0.9037289619
## 100	NA
## 101	0.8685423136
## 102	NA
## 103	1.0686944720
## 104	0.5957565904
## 105	0.6315765381
## 106	0.7082281709
## 107	0.7360501289
## 108	0.5827726722
## 109	0.3597652316
## 110	0.5870603919
## 111	0.6915372014
## 112	0.5082760453
## 113	0.6384024620
## 114	0.6779180169
## 115	0.5774182081
## 116	0.6699740291
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## 118	0.5970061421
## 119	0.4532409906
## 120	0.4302428067
## 121	NA
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## 124	NA
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## 126	NA
## 127	0.2312704325
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## 129	0.0078753894
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## 131	0.2484325320
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## 136	0.4247858226
## 137	0.4744772613
## 138	0.4509415925
## 139	0.5242266059
## 140	0.3566798568
## 141	0.3492924273
## 142	0.2803821266
## 143	0.3072482944
## 144	0.3705646396
## 145	0.5448220372
## 146	0.6347500086
## 147	0.6731316447
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## 149	0.6404388547
## 150	0.6104111075
## 151	NA
## 152	NA
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## 156	NA
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## 158	NA
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## 588	2.629400
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## 720	5.927700	
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## 4	0.025498253	158440875
## 5	0.037672709	160980472
## 6	0.105138168	163515328
## 7	0.450789179	166037122
## 8	0.786079155	168546707
## 9	1.477874959	171039804
## 10	2.038732184	173486281
## 11	2.870685159	175873720
## 12	4.528494869	178211881
## 13	9.149425086	180476685
## 14	13.207586100	182629278
## 15	19.073672270	184722043
## 16	21.022747250	186797334
## 17	28.178380180	188820682
## 18	30.880000000	190779453
## 19	33.830000000	192672317
## 20	39.220000000	194517549
## 21	40.650000000	196353492
## 22	45.690000000	198185302
## 23	48.560000000	199977707
## 24	51.040000000	201721767
## 25	54.551001880	203459650
## 26	58.327951730	205188205
## 27	60.872540070	206859578
## 28	67.471284520	208504960
## 29	70.434282540	210166592
## 30	73.912439910	211782878
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## 32	0.000000000	186462
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## 34	0.000000000	194177
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## 37	0.882807327	209840
## 38	1.288582302	217117
## 39	2.091516391	224907
## 40	4.076740564	232733
## 41	5.963835303	240406
## 42	NA	248100
## 43	5.684251214	255987
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## 48	24.600000000	297173
## 49	26.300000000	305671
## 50	27.200000000	314171
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## 52	30.700000000	329538
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## 54	33.600000000	344688
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## 56	41.590000000	359871
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## 63	0.000000000	1420695
## 64	0.000000000	1462262
## 65	0.000000000	1503544
## 66	0.064521041	1543634
## 67	0.157454230	1582169
## 68	0.307746850	1619354
## 69	0.602400929	1655699
## 70	1.122391474	1691558
## 71	2.902666622	1726985
## 72	3.430886787	1761930
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## 74	3.345190174	1826863
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## 76	3.262554036	1892807
## 77	4.289932975	1928704
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## 83	16.000000000	2175425
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## 94	0.081509754	3405372
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## 98	1.640221288	3739421
## 99	2.666378698	3821421
## 100	3.904323257	3901430
## 101	5.800253023	3979193
## 102	9.559482135	4053222
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## 105	20.792306710	4252800
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## 163	18.424892770	68262
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## 312	5.128103982	107936
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## 314	18.645182180	108740
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## 317	21.395991170	110988
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## 319	23.180000000	112478
## 320	24.050000000	113249
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## 326	52.500000000	118980
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## 333	1.148250e+09	NA
## 334	1.133960e+09	NA
## 335	1.206370e+09	NA
## 336	1.662410e+09	NA
## 337	1.501600e+09	NA
## 338	1.537550e+09	9.58841269
## 339	1.685120e+09	6.44892643
## 340	1.817540e+09	13.77560364
## 341	1.807320e+09	13.15317506
## 342	1.979930e+09	26.02784521
## 343	2.264140e+09	9.76338137
## 344	2.385000e+09	10.05740833
## 345	2.428090e+09	7.34454924
## 346	3.715430e+09	6.96981806
## 347	2.805700e+09	7.41195297
## 348	2.882900e+09	5.34126630
## 349	2.655100e+09	3.64159234
## 350	2.364459e+09	9.89283210
## 351	2.592080e+09	7.80319865
## 352	2.752088e+09	6.11382983
## 353	2.541967e+09	9.77861846
## 354	2.204897e+09	9.90635407
## 355	2.281283e+09	10.60955538
## 356	2.406900e+09	10.75584871
## 357	2.585424e+09	10.12049423
## 358	2.737331e+09	11.11202392
## 359	2.870324e+09	11.50541688
## 360	3.035149e+09	8.85915233
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## 365	NA	1.53418485
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## 372	NA	16.63197820
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## 385	NA	15.26002232
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## 390	NA	7.30175935
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## 392	2.128792e+09	-8.57405786
## 393	3.232982e+09	-9.51239671
## 394	4.900201e+09	-5.95180112
## 395	5.450208e+09	13.99636859
## 396	7.512575e+09	14.68989268
## 397	7.847570e+09	17.63412732
## 398	8.344081e+09	21.21680819
## 399	9.318863e+09	19.00286121
## 400	9.924309e+09	18.78944944
## 401	1.122750e+10	11.53955150
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## 404	1.408604e+10	6.50631403
## 405	1.594913e+10	4.67744637
## 406	1.850006e+10	5.28586693
## 407	2.003016e+10	8.07942404
## 408	2.434389e+10	5.27905753
## 409	2.596061e+10	2.88781677
## 410	2.428531e+10	4.27696229
## 411	2.785163e+10	9.69328443
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## 413	3.360460e+10	10.37456239
## 414	3.877601e+10	8.57867632
## 415	4.049881e+10	9.62037591
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## 417	5.516517e+10	11.29748790
## 418	6.272820e+10	7.84167820
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## 421	1.766000e+08	NA
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## 433	6.921000e+08	9.37566872
## 434	8.171000e+08	6.92865725
## 435	1.135900e+09	0.05412116
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## 437	1.684000e+09	0.65114647
## 438	2.086500e+09	-0.42394566
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## 455	5.763700e+09	11.60075675
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## 475	1.238700e+09	6.19731923
## 476	5.300000e+08	7.00246757
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## 498	NA	1.35029774
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## 500	3.173240e+10	1.73076520
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## 502	2.994777e+10	-0.71808737
## 503	3.116219e+10	0.13259560
## 504	3.232469e+10	2.52394547
## 505	3.683841e+10	-0.78251892
## 506	4.536732e+10	0.20705920
## 507	5.188947e+10	-1.24759735
## 508	5.379349e+10	0.71776514
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## 510	6.629517e+10	3.97131289
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## 513	8.291000e+08	9.01839406
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## 516	1.155600e+09	11.08610642
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## 526	3.891882e+09	4.74622109
## 527	6.697894e+09	1.62170084
## 528	8.085122e+09	3.29202101
## 529	8.502148e+09	2.50109853
## 530	8.585176e+09	3.90192461
## 531	5.975941e+09	5.77878966
## 532	7.136965e+09	4.73450801
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## 566	1.672417e+12	17.84574245
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## 573	6.476500e+08	46.60393798
## 574	1.209940e+09	32.69033995
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## 576	2.081950e+09	19.87712720
## 577	2.232250e+09	19.91616472
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## 582	2.501080e+09	24.41195004
## 583	2.186080e+09	20.63384586
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## 585	2.397770e+09	17.30870520
## 586	2.638500e+09	21.28436819
## 587	2.376294e+09	15.11949891
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## 589	1.910680e+09	22.32387459

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## 591	1.802937e+09	12.54947337
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## 593	1.526024e+09	17.82002249
## 594	1.705910e+09	16.90330807
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## 597	1.605756e+09	12.98525678
## 598	1.447582e+09	12.71220357
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## 619	3.650930e+08	7.36560346
## 620	3.861274e+08	10.23099536
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## 622	3.894301e+08	8.47001457
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## 624	2.200328e+08	2.89559923
## 625	2.454087e+08	4.82181360
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## 627	2.781100e+08	8.68856182
## 628	3.268200e+08	4.64666226
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## 631	6.120000e+07	3.79183053
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## 634	7.580000e+07	13.27569170
## 635	7.670000e+07	9.14610159
## 636	8.510000e+07	9.62790686
## 637	8.660000e+07	7.39616243
## 638	9.830000e+07	9.79858529
## 639	1.045000e+08	7.84421902
## 640	1.077000e+08	9.55543548
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## 643	1.266900e+08	11.33230857

## 644	1.329300e+08	14.31705513
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## 648	1.111300e+08	2.13011015
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## 652	8.119621e+07	9.48553233
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## 655	1.122500e+08	9.52029135
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## 695	1.989000e+09	5.25546973
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## 697	6.200000e+09	10.64480937

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## 701	7.218500e+09	4.87058239
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## 705	1.298700e+10	4.95038436
## 706	1.812900e+10	4.76148920
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## 708	2.641000e+10	4.54604567
## 709	2.222000e+10	6.74515150
## 710	1.870871e+10	2.80250898
## 711	2.658576e+10	3.49095979
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## 715	4.033210e+10	3.56702763
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## 72	3.068057e+07
## 73	4.080000e+08
## 74	4.180000e+08
## 75	3.910000e+08
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## 81	2.180000e+08
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## 83	1.460000e+08
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## 127	NA
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## 129	NA
## 130	NA
## 131	NA
## 132	NA
## 133	NA
## 134	NA
## 135	NA
## 136	NA
## 137	NA
## 138	NA

## 139	NA
## 140	NA
## 141	NA
## 142	NA
## 143	NA
## 144	-1.400000e+09
## 145	-1.400000e+09
## 146	-1.000000e+09
## 147	-9.700000e+08
## 148	-9.300000e+08
## 149	-7.800000e+08
## 150	-8.000000e+08
## 151	NA
## 152	NA
## 153	NA
## 154	NA
## 155	NA
## 156	NA
## 157	NA
## 158	NA
## 159	NA
## 160	NA
## 161	NA
## 162	NA
## 163	NA
## 164	NA
## 165	NA
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## 173	NA
## 174	NA
## 175	NA
## 176	NA
## 177	NA
## 178	NA
## 179	NA
## 180	NA
## 181	NA
## 182	NA
## 183	NA
## 184	NA
## 185	NA
## 186	4.170000e+08
## 187	1.340000e+08
## 188	4.090000e+08
## 189	6.690000e+08
## 190	1.340000e+09
## 191	9.890000e+08
## 192	1.090000e+09

## 193	9.260000e+08
## 194	6.170000e+08
## 195	9.340000e+08
## 196	1.120000e+09
## 197	1.530000e+09
## 198	2.250000e+09
## 199	2.730000e+09
## 200	1.700000e+09
## 201	1.820000e+09
## 202	2.200000e+09
## 203	3.420000e+09
## 204	-1.900000e+08
## 205	-1.600000e+08
## 206	-2.700000e+08
## 207	-3.000000e+08
## 208	-9.800000e+07
## 209	-1.200000e+08
## 210	7.784676e+06
## 211	NA
## 212	NA
## 213	NA
## 214	NA
## 215	NA
## 216	4.520000e+08
## 217	5.000000e+08
## 218	7.240000e+08
## 219	8.700000e+08
## 220	6.480000e+08
## 221	-2.300000e+07
## 222	5.390000e+08
## 223	7.830000e+08
## 224	8.720000e+08
## 225	8.370000e+08
## 226	4.930000e+08
## 227	2.710000e+08
## 228	1.940000e+08
## 229	1.060000e+09
## 230	3.090000e+08
## 231	1.660000e+08
## 232	6.460000e+08
## 233	5.670000e+08
## 234	6.291277e+00
## 235	6.232937e+00
## 236	5.236395e+00
## 237	4.452962e+00
## 238	4.833275e+00
## 239	4.829439e+00
## 240	4.220940e+00
## 241	NA
## 242	NA
## 243	NA
## 244	NA
## 245	NA
## 246	1.270000e+08

## 247	3.760000e+08
## 248	5.345153e+07
## 249	2.750000e+08
## 250	1.540000e+08
## 251	1.540000e+08
## 252	9.410000e+08
## 253	3.230000e+08
## 254	6.900000e+08
## 255	3.410000e+08
## 256	7.690000e+08
## 257	4.700000e+08
## 258	1.240000e+09
## 259	-7.900000e+08
## 260	1.640000e+09
## 261	2.730000e+09
## 262	1.980000e+09
## 263	9.850000e+08
## 264	1.841539e+00
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## 268	8.801570e+00
## 269	8.175989e+00
## 270	9.204098e+00
## 271	NA
## 272	NA
## 273	NA
## 274	NA
## 275	NA
## 276	-2.000000e+08
## 277	-2.900000e+08
## 278	-1.100000e+08
## 279	1.330000e+08
## 280	8.945278e+07
## 281	2.780000e+08
## 282	-1.000000e+08
## 283	1.160708e+06
## 284	9.966615e+07
## 285	3.140000e+08
## 286	3.260000e+08
## 287	2.680000e+08
## 288	6.550000e+08
## 289	6.940000e+08
## 290	6.360000e+08
## 291	5.240000e+08
## 292	1.120000e+09
## 293	6.770000e+08
## 294	2.386478e+00
## 295	3.484455e+00
## 296	1.802698e+00
## 297	3.007462e+00
## 298	3.500169e+00
## 299	3.125142e+00
## 300	3.076109e+00

## 301	NA
## 302	NA
## 303	NA
## 304	NA
## 305	NA
## 306	1.997778e+07
## 307	1.696296e+07
## 308	3.350000e+07
## 309	4.868518e+07
## 310	4.155185e+07
## 311	5.748940e+07
## 312	8.957344e+07
## 313	7.785377e+07
## 314	9.908799e+07
## 315	1.260000e+08
## 316	8.161082e+07
## 317	1.030000e+08
## 318	1.650000e+08
## 319	1.440000e+08
## 320	1.090000e+08
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## 323	4.981375e+07
## 324	7.566764e+00
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## 327	8.663447e+00
## 328	4.504480e+00
## 329	2.212967e+00
## 330	3.591381e+00
## 331	NA
## 332	NA
## 333	NA
## 334	NA
## 335	NA
## 336	7.520000e+07
## 337	7.690000e+07
## 338	6.310000e+08
## 339	1.350000e+09
## 340	9.250000e+08
## 341	-7.900000e+08
## 342	-9.400000e+08
## 343	-1.000000e+09
## 344	1.950000e+07
## 345	3.210000e+08
## 346	5.400000e+08
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## 348	8.590000e+08
## 349	7.310000e+08
## 350	5.000000e+08
## 351	1.100000e+09
## 352	8.770000e+08
## 353	1.400000e+09
## 354	7.520000e+10

## 355	8.770000e+10
## 356	6.470000e+10
## 357	7.430000e+10
## 358	6.890000e+10
## 359	7.820000e+10
## 360	6.920000e+10
## 361	NA
## 362	NA
## 363	NA
## 364	NA
## 365	NA
## 366	7.442000e+07
## 367	5.900000e+07
## 368	5.200000e+07
## 369	4.400000e+07
## 370	4.600000e+07
## 371	6.710000e+07
## 372	5.600000e+07
## 373	4.360000e+07
## 374	2.610000e+07
## 375	3.000000e+07
## 376	7.680000e+07
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## 378	1.520000e+08
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## 380	1.640000e+08
## 381	1.980000e+08
## 382	2.470000e+08
## 383	2.780000e+08
## 384	7.270000e+08
## 385	7.720000e+08
## 386	1.320000e+09
## 387	7.640000e+08
## 388	6.300000e+08
## 389	1.390000e+09
## 390	9.790000e+08
## 391	NA
## 392	NA
## 393	NA
## 394	NA
## 395	NA
## 396	1.020000e+08
## 397	1.360000e+08
## 398	1.560000e+08
## 399	3.220000e+08
## 400	4.750000e+08
## 401	4.200000e+08
## 402	5.770000e+08
## 403	4.440000e+08
## 404	6.840000e+08
## 405	5.590000e+08
## 406	6.380000e+08
## 407	8.420000e+08
## 408	8.120000e+08

## 409	1.380000e+09
## 410	4.850000e+08
## 411	1.860000e+08
## 412	1.730000e+08
## 413	4.130000e+08
## 414	5.450000e+08
## 415	5.820000e+08
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## 417	9.280000e+08
## 418	8.890000e+08
## 419	7.750000e+08
## 420	6.650000e+08
## 421	NA
## 422	NA
## 423	NA
## 424	NA
## 425	NA
## 426	7.230711e+06
## 427	9.315252e+06
## 428	1.140888e+07
## 429	1.151797e+07
## 430	1.232225e+07
## 431	2.231245e+07
## 432	2.054105e+07
## 433	2.471860e+07
## 434	3.177444e+07
## 435	5.293370e+07
## 436	5.299112e+07
## 437	6.382681e+07
## 438	1.320000e+08
## 439	1.810000e+08
## 440	1.580000e+08
## 441	2.160000e+08
## 442	4.240000e+08
## 443	2.280000e+08
## 444	9.570000e+09
## 445	4.260000e+09
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## 447	6.810000e+09
## 448	7.410000e+09
## 449	5.870000e+09
## 450	4.760000e+09
## 451	NA
## 452	NA
## 453	NA
## 454	NA
## 455	NA
## 456	1.869286e+07
## 457	3.666133e+07
## 458	5.527785e+07
## 459	1.217039e+07
## 460	4.935319e+07
## 461	2.660000e+08
## 462	-2.800000e+07

## 463	3.207312e+07
## 464	6.263066e+07
## 465	1.389474e+07
## 466	4.177700e+07
## 467	1.070000e+08
## 468	3.410000e+08
## 469	3.780000e+08
## 470	2.570000e+08
## 471	4.300000e+08
## 472	4.330000e+08
## 473	5.890000e+08
## 474	3.385800e-02
## 475	1.286800e-01
## 476	2.141000e-02
## 477	7.671200e-02
## 478	1.134600e-02
## 479	3.133200e-02
## 480	8.876200e-02
## 481	NA
## 482	NA
## 483	NA
## 484	NA
## 485	NA
## 486	9.530000e+09
## 487	9.190000e+09
## 488	1.280000e+10
## 489	1.280000e+10
## 490	1.390000e+10
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## 492	3.010000e+10
## 493	2.020000e+10
## 494	1.820000e+10
## 495	2.510000e+10
## 496	2.520000e+10
## 497	2.210000e+10
## 498	3.100000e+10
## 499	2.980000e+10
## 500	1.970000e+10
## 501	3.050000e+10
## 502	2.390000e+10
## 503	1.820000e+10
## 504	8.875280e-01
## 505	-3.362700e-01
## 506	-2.127510e+00
## 507	1.531840e-01
## 508	-2.039300e-01
## 509	1.003700e-02
## 510	8.852000e-03
## 511	NA
## 512	NA
## 513	NA
## 514	NA
## 515	NA
## 516	1.530000e+08

## 517	1.290000e+08
## 518	9.100000e+07
## 519	9.620000e+07
## 520	5.110000e+07
## 521	1.960000e+08
## 522	3.790000e+08
## 523	1.480000e+08
## 524	6.510000e+07
## 525	2.240000e+08
## 526	3.900000e+08
## 527	6.100000e+08
## 528	6.690000e+08
## 529	7.500000e+08
## 530	8.290000e+08
## 531	2.880000e+08
## 532	8.040000e+08
## 533	1.040000e+09
## 534	1.382820e-01
## 535	3.424700e-02
## 536	2.496750e-01
## 537	-1.805200e-01
## 538	8.977600e-02
## 539	1.940090e-01
## 540	4.852410e-01
## 541	NA
## 542	NA
## 543	NA
## 544	NA
## 545	NA
## 546	9.450000e+07
## 547	1.400000e+08
## 548	2.310000e+08
## 549	3.410000e+08
## 550	8.720000e+07
## 551	1.080000e+08
## 552	9.920000e+07
## 553	9.040000e+07
## 554	-5.800000e+07
## 555	9.397900e+07
## 556	7.300000e+06
## 557	1.880000e+08
## 558	1.050000e+08
## 559	3.500000e+08
## 560	1.750000e+08
## 561	7.140000e+08
## 562	6.080000e+08
## 563	7.780000e+08
## 564	4.364000e-02
## 565	1.787450e-01
## 566	9.203210e-01
## 567	-7.297000e-02
## 568	-5.155600e-01
## 569	7.076440e-01
## 570	7.164400e-02

## 571	NA
## 572	NA
## 573	NA
## 574	NA
## 575	NA
## 576	2.560000e+09
## 577	3.470000e+09
## 578	2.140000e+09
## 579	1.640000e+09
## 580	1.940000e+09
## 581	8.100000e+08
## 582	1.140000e+09
## 583	2.160000e+09
## 584	1.340000e+09
## 585	1.600000e+09
## 586	2.580000e+09
## 587	3.470000e+09
## 588	5.490000e+09
## 589	6.920000e+09
## 590	6.430000e+09
## 591	8.450000e+09
## 592	7.680000e+09
## 593	1.420000e+10
## 594	-1.696000e-02
## 595	-4.269960e+00
## 596	-1.620600e+00
## 597	-2.059440e+00
## 598	-5.923000e-02
## 599	2.945300e-01
## 600	2.289445e+00
## 601	NA
## 602	NA
## 603	NA
## 604	NA
## 605	NA
## 606	3.275185e+07
## 607	1.841482e+07
## 608	4.782593e+07
## 609	8.339630e+07
## 610	8.315185e+07
## 611	9.608723e+07
## 612	1.050000e+08
## 613	9.990921e+07
## 614	1.640000e+08
## 615	1.220000e+08
## 616	1.150000e+08
## 617	2.890000e+08
## 618	2.030000e+08
## 619	1.960000e+08
## 620	1.350000e+08
## 621	1.740000e+08
## 622	9.716578e+07
## 623	1.180000e+08
## 624	2.360000e+08

## 625	4.800000e+08
## 626	1.645449e+07
## 627	4.530000e+07
## 628	-8.400000e+07
## 629	-6.300000e+07
## 630	-3.400000e+07
## 631	NA
## 632	NA
## 633	NA
## 634	NA
## 635	NA
## 636	3.064074e+07
## 637	4.264444e+07
## 638	9.247037e+07
## 639	8.895185e+07
## 640	5.679630e+07
## 641	5.431230e+07
## 642	1.784253e+07
## 643	2.628020e+07
## 644	3.487910e+07
## 645	8.314552e+07
## 646	3.991059e+07
## 647	1.200000e+08
## 648	8.407303e+07
## 649	1.570000e+08
## 650	1.090000e+08
## 651	9.588371e+07
## 652	8.463917e+07
## 653	1.330000e+08
## 654	1.680000e+08
## 655	1.410000e+08
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## 657	2.829411e+07
## 658	8.922904e+07
## 659	9.841326e+07
## 660	5.770502e+07
## 661	NA
## 662	NA
## 663	NA
## 664	NA
## 665	NA
## 666	-2.100000e+07
## 667	1.910000e+07
## 668	-9.200000e+06
## 669	9.100000e+06
## 670	-6.200000e+07
## 671	-9.700000e+07
## 672	-2.700000e+07
## 673	-7.400000e+07
## 674	-7.600000e+07
## 675	-3.700000e+07
## 676	2.800000e+07
## 677	-1.600000e+08
## 678	-2.500000e+08

## 679	-2.300000e+08
## 680	-9.300000e+07
## 681	-2.600000e+08
## 682	1.450000e+08
## 683	1.690000e+08
## 684	1.120000e+08
## 685	-3.200000e+07
## 686	2.327465e+07
## 687	1.241184e+07
## 688	-5.753038e+06
## 689	-9.276997e+06
## 690	4.488477e+07
## 691	NA
## 692	NA
## 693	NA
## 694	NA
## 695	NA
## 696	1.250000e+09
## 697	8.160000e+08
## 698	3.810000e+09
## 699	5.500000e+08
## 700	1.500000e+09
## 701	9.690000e+08
## 702	7.270000e+09
## 703	1.480000e+09
## 704	7.830000e+08
## 705	7.010000e+08
## 706	6.520000e+09
## 707	6.230000e+08
## 708	6.590000e+09
## 709	9.890000e+09
## 710	7.620000e+09
## 711	3.690000e+09
## 712	4.140000e+09
## 713	4.630000e+09
## 714	8.040000e+08
## 715	4.240000e+08
## 716	4.140000e+08
## 717	4.930000e+08
## 718	2.730000e+08
## 719	5.810000e+08
## 720	2.388844e+07
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## 1	NA
## 2	NA
## 3	NA
## 4	NA
## 5	NA
## 6	2.970000e+01
## 7	7.590000e+01
## 8	1.130000e+02
## 9	1.690000e+02
## 10	1.640000e+02
## 11	1.880000e+02

## 12	1.300000e+02
## 13	9.200000e+01
## 14	5.530000e+01
## 15	9.850000e+01
## 16	8.300000e+01
## 17	1.030000e+02
## 18	2.340000e+02
## 19	2.630000e+02
## 20	1.620000e+02
## 21	4.200000e+02
## 22	5.150000e+02
## 23	4.630000e+02
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## 25	2.976528e-05
## 26	3.011927e-05
## 27	3.063711e-05
## 28	3.069490e-05
## 29	3.107260e-05
## 30	3.093002e-05
## 31	0.000000e+00
## 32	0.000000e+00
## 33	0.000000e+00
## 34	0.000000e+00
## 35	0.000000e+00
## 36	1.030000e+02
## 37	7.900000e+01
## 38	5.510000e+01
## 39	7.850000e+01
## 40	2.520000e+02
## 41	1.230000e+02
## 42	2.470000e+02
## 43	9.950000e+01
## 44	-4.170000e+01
## 45	4.080000e+02
## 46	4.530000e+02
## 47	3.780000e+02
## 48	4.710000e+02
## 49	5.560000e+02
## 50	3.470000e+02
## 51	2.990000e+02
## 52	2.890000e+02
## 53	5.760000e+02
## 54	1.763461e-02
## 55	1.764184e-02
## 56	1.703551e-02
## 57	1.624131e-02
## 58	1.604728e-02
## 59	1.564192e-02
## 60	1.507064e-02
## 61	0.000000e+00
## 62	0.000000e+00
## 63	0.000000e+00
## 64	0.000000e+00
## 65	0.000000e+00

## 66	4.561523e+01
## 67	4.499033e+01
## 68	6.180000e+01
## 69	5.756972e+01
## 70	2.168123e+01
## 71	3.310471e+01
## 72	1.741305e+01
## 73	2.270000e+02
## 74	2.290000e+02
## 75	2.100000e+02
## 76	2.220000e+02
## 77	2.530000e+02
## 78	2.520000e+02
## 79	2.600000e+02
## 80	1.020000e+02
## 81	1.040000e+02
## 82	1.370000e+02
## 83	6.710000e+01
## 84	2.270860e-03
## 85	2.233735e-03
## 86	2.202679e-03
## 87	2.181683e-03
## 88	2.153730e-03
## 89	2.147416e-03
## 90	2.123257e-03
## 91	0.000000e+00
## 92	0.000000e+00
## 93	0.000000e+00
## 94	0.000000e+00
## 95	0.000000e+00
## 96	9.430000e+01
## 97	1.170000e+02
## 98	1.090000e+02
## 99	1.610000e+02
## 100	1.590000e+02
## 101	1.820000e+02
## 102	1.530000e+02
## 103	1.750000e+02
## 104	1.850000e+02
## 105	2.540000e+02
## 106	3.550000e+02
## 107	4.110000e+02
## 108	5.050000e+02
## 109	5.420000e+02
## 110	3.530000e+02
## 111	4.130000e+02
## 112	5.830000e+02
## 113	5.700000e+02
## 114	-3.760000e+00
## 115	-2.890000e+00
## 116	-3.880000e+00
## 117	-8.290000e+00
## 118	-4.810000e+00
## 119	-1.550000e+01

## 120	-1.240000e+01
## 121	0.000000e+00
## 122	0.000000e+00
## 123	0.000000e+00
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## 139	0.000000e+00
## 140	0.000000e+00
## 141	0.000000e+00
## 142	0.000000e+00
## 143	0.000000e+00
## 144	-1.240000e+02
## 145	-1.240000e+02
## 146	-8.820000e+01
## 147	-8.550000e+01
## 148	-8.200000e+01
## 149	-6.890000e+01
## 150	-7.070000e+01
## 151	0.000000e+00
## 152	0.000000e+00
## 153	0.000000e+00
## 154	0.000000e+00
## 155	0.000000e+00
## 156	0.000000e+00
## 157	0.000000e+00
## 158	0.000000e+00
## 159	0.000000e+00
## 160	0.000000e+00
## 161	0.000000e+00
## 162	0.000000e+00
## 163	0.000000e+00
## 164	0.000000e+00
## 165	0.000000e+00
## 166	0.000000e+00
## 167	0.000000e+00
## 168	0.000000e+00
## 169	0.000000e+00
## 170	0.000000e+00
## 171	0.000000e+00
## 172	0.000000e+00
## 173	0.000000e+00

## 174	0.000000e+00
## 175	0.000000e+00
## 176	0.000000e+00
## 177	0.000000e+00
## 178	0.000000e+00
## 179	0.000000e+00
## 180	0.000000e+00
## 181	0.000000e+00
## 182	0.000000e+00
## 183	0.000000e+00
## 184	0.000000e+00
## 185	0.000000e+00
## 186	5.300000e+01
## 187	1.670000e+01
## 188	5.020000e+01
## 189	8.080000e+01
## 190	1.590000e+02
## 191	1.160000e+02
## 192	1.260000e+02
## 193	1.050000e+02
## 194	6.920000e+01
## 195	1.030000e+02
## 196	1.220000e+02
## 197	1.650000e+02
## 198	2.390000e+02
## 199	2.870000e+02
## 200	1.760000e+02
## 201	1.860000e+02
## 202	2.220000e+02
## 203	3.410000e+02
## 204	-1.870000e+01
## 205	-1.560000e+01
## 206	-2.590000e+01
## 207	-2.850000e+01
## 208	-9.200000e+00
## 209	-1.110000e+01
## 210	7.153796e-01
## 211	0.000000e+00
## 212	0.000000e+00
## 213	0.000000e+00
## 214	0.000000e+00
## 215	0.000000e+00
## 216	3.910000e+01
## 217	4.250000e+01
## 218	6.040000e+01
## 219	7.130000e+01
## 220	5.220000e+01
## 221	-1.820000e+00
## 222	4.200000e+01
## 223	5.990000e+01
## 224	6.560000e+01
## 225	6.180000e+01
## 226	3.580000e+01
## 227	1.930000e+01

## 228	1.360000e+01
## 229	7.310000e+01
## 230	2.100000e+01
## 231	1.110000e+01
## 232	4.240000e+01
## 233	3.660000e+01
## 234	4.001324e-07
## 235	3.905840e-07
## 236	3.233160e-07
## 237	2.708683e-07
## 238	2.894706e-07
## 239	2.838230e-07
## 240	2.433697e-07
## 241	0.000000e+00
## 242	0.000000e+00
## 243	0.000000e+00
## 244	0.000000e+00
## 245	0.000000e+00
## 246	2.260000e+02
## 247	6.450000e+02
## 248	8.826647e+01
## 249	4.370000e+02
## 250	2.350000e+02
## 251	2.250000e+02
## 252	1.310000e+03
## 253	4.280000e+02
## 254	8.740000e+02
## 255	4.130000e+02
## 256	8.890000e+02
## 257	5.190000e+02
## 258	1.310000e+03
## 259	-7.940000e+02
## 260	1.570000e+03
## 261	2.490000e+03
## 262	1.730000e+03
## 263	8.250000e+02
## 264	1.480407e-06
## 265	5.357272e-06
## 266	2.152805e-07
## 267	6.339254e-06
## 268	6.067144e-06
## 269	5.443072e-06
## 270	5.926538e-06
## 271	0.000000e+00
## 272	0.000000e+00
## 273	0.000000e+00
## 274	0.000000e+00
## 275	0.000000e+00
## 276	-1.780000e+02
## 277	-2.520000e+02
## 278	-9.320000e+01
## 279	1.100000e+02
## 280	7.209492e+01
## 281	2.180000e+02

## 282	-7.650000e+01
## 283	8.651051e-01
## 284	7.230579e+01
## 285	2.220000e+02
## 286	2.240000e+02
## 287	1.780000e+02
## 288	4.230000e+02
## 289	4.340000e+02
## 290	3.850000e+02
## 291	3.060000e+02
## 292	6.320000e+02
## 293	3.690000e+02
## 294	1.254571e-06
## 295	1.771587e-06
## 296	8.886778e-07
## 297	1.441594e-06
## 298	1.635429e-06
## 299	1.425696e-06
## 300	1.371558e-06
## 301	0.000000e+00
## 302	0.000000e+00
## 303	0.000000e+00
## 304	0.000000e+00
## 305	0.000000e+00
## 306	1.919833e+02
## 307	1.617893e+02
## 308	3.173881e+02
## 309	4.584292e+02
## 310	3.889785e+02
## 311	5.351236e+02
## 312	8.298755e+02
## 313	7.193297e+02
## 314	9.112377e+02
## 315	1.150000e+03
## 316	7.402074e+02
## 317	9.280000e+02
## 318	1.480000e+03
## 319	1.280000e+03
## 320	9.620000e+02
## 321	4.880272e+02
## 322	7.476904e+02
## 323	4.297549e+02
## 324	6.470361e-05
## 325	3.259206e-05
## 326	7.080156e-05
## 327	7.221585e-05
## 328	3.725143e-05
## 329	1.816319e-05
## 330	2.926388e-05
## 331	0.000000e+00
## 332	0.000000e+00
## 333	0.000000e+00
## 334	0.000000e+00
## 335	0.000000e+00

## 336	7.310000e+00
## 337	7.300000e+00
## 338	5.850000e+01
## 339	1.220000e+02
## 340	8.180000e+01
## 341	-6.820000e+01
## 342	-7.920000e+01
## 343	-8.230000e+01
## 344	1.570000e+00
## 345	2.530000e+01
## 346	4.170000e+01
## 347	4.810000e+01
## 348	6.370000e+01
## 349	5.320000e+01
## 350	3.570000e+01
## 351	7.710000e+01
## 352	6.040000e+01
## 353	9.470000e+01
## 354	5.000000e+03
## 355	5.730000e+03
## 356	4.160000e+03
## 357	4.690000e+03
## 358	4.280000e+03
## 359	4.780000e+03
## 360	4.170000e+03
## 361	0.000000e+00
## 362	0.000000e+00
## 363	0.000000e+00
## 364	0.000000e+00
## 365	0.000000e+00
## 366	9.900371e+01
## 367	7.829388e+01
## 368	6.885493e+01
## 369	5.814745e+01
## 370	6.068489e+01
## 371	8.839986e+01
## 372	7.370273e+01
## 373	5.734405e+01
## 374	3.431673e+01
## 375	3.945167e+01
## 376	1.010913e+02
## 377	1.340000e+02
## 378	2.010000e+02
## 379	2.360000e+02
## 380	2.180000e+02
## 381	2.650000e+02
## 382	3.320000e+02
## 383	3.740000e+02
## 384	9.730000e+02
## 385	1.030000e+03
## 386	1.750000e+03
## 387	1.010000e+03
## 388	8.250000e+02
## 389	1.770000e+03

## 390	1.230000e+03
## 391	0.000000e+00
## 392	0.000000e+00
## 393	0.000000e+00
## 394	0.000000e+00
## 395	0.000000e+00
## 396	4.060000e+01
## 397	5.370000e+01
## 398	6.110000e+01
## 399	1.250000e+02
## 400	1.830000e+02
## 401	1.610000e+02
## 402	2.200000e+02
## 403	1.680000e+02
## 404	2.580000e+02
## 405	2.100000e+02
## 406	2.380000e+02
## 407	3.130000e+02
## 408	3.010000e+02
## 409	5.090000e+02
## 410	1.780000e+02
## 411	6.800000e+01
## 412	6.300000e+01
## 413	1.500000e+02
## 414	1.970000e+02
## 415	2.090000e+02
## 416	3.310000e+02
## 417	3.310000e+02
## 418	3.170000e+02
## 419	2.760000e+02
## 420	2.360000e+02
## 421	0.000000e+00
## 422	0.000000e+00
## 423	0.000000e+00
## 424	0.000000e+00
## 425	0.000000e+00
## 426	2.800344e+01
## 427	3.530631e+01
## 428	4.240590e+01
## 429	4.206770e+01
## 430	4.430695e+01
## 431	7.898016e+01
## 432	7.149091e+01
## 433	8.457049e+01
## 434	1.069033e+02
## 435	1.751988e+02
## 436	1.725994e+02
## 437	2.030108e+02
## 438	4.060000e+02
## 439	5.370000e+02
## 440	4.530000e+02
## 441	5.970000e+02
## 442	1.130000e+03
## 443	5.880000e+02

## 444	2.390000e+04
## 445	1.020000e+04
## 446	1.690000e+04
## 447	1.500000e+04
## 448	1.570000e+04
## 449	1.200000e+04
## 450	9.430000e+03
## 451	0.000000e+00
## 452	0.000000e+00
## 453	0.000000e+00
## 454	0.000000e+00
## 455	0.000000e+00
## 456	1.665352e+01
## 457	3.232933e+01
## 458	4.813953e+01
## 459	1.048791e+01
## 460	4.199317e+01
## 461	2.240000e+02
## 462	-2.340000e+01
## 463	2.662507e+01
## 464	5.161712e+01
## 465	1.137977e+01
## 466	3.401332e+01
## 467	8.670000e+01
## 468	2.750000e+02
## 469	3.040000e+02
## 470	2.060000e+02
## 471	3.440000e+02
## 472	3.460000e+02
## 473	4.690000e+02
## 474	2.689433e-08
## 475	1.020292e-07
## 476	1.695333e-08
## 477	6.070202e-08
## 478	8.969971e-09
## 479	2.475709e-08
## 480	7.011300e-08
## 481	0.000000e+00
## 482	0.000000e+00
## 483	0.000000e+00
## 484	0.000000e+00
## 485	0.000000e+00
## 486	1.060000e+02
## 487	1.000000e+02
## 488	1.370000e+02
## 489	1.350000e+02
## 490	1.440000e+02
## 491	1.880000e+02
## 492	3.030000e+02
## 493	2.000000e+02
## 494	1.780000e+02
## 495	2.410000e+02
## 496	2.390000e+02
## 497	2.070000e+02

## 498	2.860000e+02
## 499	2.720000e+02
## 500	1.770000e+02
## 501	2.710000e+02
## 502	2.090000e+02
## 503	1.570000e+02
## 504	7.566909e-09
## 505	-2.831607e-09
## 506	-1.770713e-08
## 507	1.260574e-09
## 508	-1.660137e-09
## 509	0.000000e+00
## 510	0.000000e+00
## 511	0.000000e+00
## 512	0.000000e+00
## 513	0.000000e+00
## 514	0.000000e+00
## 515	0.000000e+00
## 516	9.530000e+01
## 517	7.820000e+01
## 518	5.370000e+01
## 519	5.540000e+01
## 520	2.870000e+01
## 521	1.080000e+02
## 522	2.040000e+02
## 523	7.840000e+01
## 524	3.400000e+01
## 525	1.150000e+02
## 526	1.990000e+02
## 527	3.070000e+02
## 528	3.330000e+02
## 529	3.680000e+02
## 530	4.010000e+02
## 531	1.370000e+02
## 532	3.770000e+02
## 533	4.800000e+02
## 534	6.272686e-08
## 535	1.526838e-08
## 536	1.093769e-07
## 537	-7.769808e-08
## 538	3.796773e-08
## 539	8.064622e-08
## 540	1.983292e-07
## 541	0.000000e+00
## 542	0.000000e+00
## 543	0.000000e+00
## 544	0.000000e+00
## 545	0.000000e+00
## 546	2.052600e+01
## 547	2.970000e+01
## 548	4.790000e+01
## 549	6.930000e+01
## 550	1.734967e+01
## 551	2.110000e+01

## 552	1.903468e+01
## 553	1.710012e+01
## 554	-1.080000e+01
## 555	1.735107e+01
## 556	1.332876e+00
## 557	3.400000e+01
## 558	1.880000e+01
## 559	6.200000e+01
## 560	3.070000e+01
## 561	1.240000e+02
## 562	1.040000e+02
## 563	1.310000e+02
## 564	7.266488e-09
## 565	2.934710e-08
## 566	1.489687e-07
## 567	-1.164424e-08
## 568	-8.112151e-08
## 569	1.098259e-07
## 570	1.097147e-08
## 571	0.000000e+00
## 572	0.000000e+00
## 573	0.000000e+00
## 574	0.000000e+00
## 575	0.000000e+00
## 576	1.050000e+02
## 577	1.390000e+02
## 578	8.440000e+01
## 579	6.350000e+01
## 580	7.390000e+01
## 581	3.040000e+01
## 582	4.220000e+01
## 583	7.900000e+01
## 584	4.850000e+01
## 585	5.740000e+01
## 586	9.170000e+01
## 587	1.220000e+02
## 588	1.920000e+02
## 589	2.400000e+02
## 590	2.220000e+02
## 591	2.890000e+02
## 592	2.610000e+02
## 593	4.770000e+02
## 594	-5.646029e-10
## 595	-1.406723e-07
## 596	-5.276788e-08
## 597	-6.615021e-08
## 598	-1.874042e-09
## 599	9.145774e-09
## 600	6.974729e-08
## 601	0.000000e+00
## 602	0.000000e+00
## 603	0.000000e+00
## 604	0.000000e+00
## 605	0.000000e+00

## 606	2.149805e+02
## 607	1.196008e+02
## 608	3.076532e+02
## 609	5.316776e+02
## 610	5.254262e+02
## 611	6.024278e+02
## 612	6.540000e+02
## 613	6.174897e+02
## 614	1.010000e+03
## 615	7.430000e+02
## 616	6.950000e+02
## 617	1.740000e+03
## 618	1.210000e+03
## 619	1.160000e+03
## 620	7.960000e+02
## 621	1.020000e+03
## 622	5.644415e+02
## 623	6.820000e+02
## 624	1.360000e+03
## 625	2.750000e+03
## 626	9.369211e+01
## 627	2.567838e+02
## 628	-4.740000e+02
## 629	-3.540000e+02
## 630	-1.900000e+02
## 631	0.000000e+00
## 632	0.000000e+00
## 633	0.000000e+00
## 634	0.000000e+00
## 635	0.000000e+00
## 636	2.683688e+02
## 637	3.731249e+02
## 638	8.091845e+02
## 639	7.791517e+02
## 640	4.982350e+02
## 641	4.772065e+02
## 642	1.570078e+02
## 643	2.316456e+02
## 644	3.083698e+02
## 645	7.383624e+02
## 646	3.562078e+02
## 647	1.080000e+03
## 648	7.586175e+02
## 649	1.420000e+03
## 650	9.920000e+02
## 651	8.771884e+02
## 652	7.786278e+02
## 653	1.230000e+03
## 654	1.560000e+03
## 655	1.320000e+03
## 656	9.359678e+02
## 657	2.670188e+02
## 658	8.453802e+02
## 659	9.347676e+02

## 660	5.499697e+02
## 661	0.000000e+00
## 662	0.000000e+00
## 663	0.000000e+00
## 664	0.000000e+00
## 665	0.000000e+00
## 666	-4.830000e+01
## 667	4.300000e+01
## 668	-2.030000e+01
## 669	1.970768e+01
## 670	-1.320000e+02
## 671	-2.030000e+02
## 672	-5.540000e+01
## 673	-1.490000e+02
## 674	-1.510000e+02
## 675	-7.250000e+01
## 676	5.420000e+01
## 677	-3.060000e+02
## 678	-4.740000e+02
## 679	-4.310000e+02
## 680	-1.720000e+02
## 681	-4.760000e+02
## 682	2.630000e+02
## 683	3.030000e+02
## 684	1.990000e+02
## 685	-5.620000e+01
## 686	4.044424e+01
## 687	2.134625e+01
## 688	-9.791422e+00
## 689	-1.562534e+01
## 690	7.477044e+01
## 691	0.000000e+00
## 692	0.000000e+00
## 693	0.000000e+00
## 694	0.000000e+00
## 695	0.000000e+00
## 696	2.840000e+01
## 697	1.830000e+01
## 698	8.410000e+01
## 699	1.200000e+01
## 700	3.240000e+01
## 701	2.070000e+01
## 702	1.540000e+02
## 703	3.110000e+01
## 704	1.630000e+01
## 705	1.440000e+01
## 706	1.330000e+02
## 707	1.260000e+01
## 708	1.320000e+02
## 709	1.960000e+02
## 710	1.490000e+02
## 711	7.130000e+01
## 712	7.890000e+01
## 713	8.710000e+01

```
## 714      1.490000e+01
## 715      7.750000e+00
## 716      7.410000e+00
## 717      8.740000e+00
## 718      4.820000e+00
## 719      1.010000e+01
## 720      4.112525e-01
```

```
data <-
  data %>%
    rename(
      country = Country,
      year = Year,
      fdi_in = Foreign.direct.investment..net.inflows....of.GDP.,
      fdi_out = Foreign.direct.investment..net.outflows....of.GDP.,
      gdp_cap_2015 = GDP.per.capita..constant.2015.US.,
      gdp_cap = GDP.per.capita..current.US.,
      trade_per_gdp = Trade....of.GDP.,
      real_interest = Real.interest.rate...,
      intl_trade_tax = Taxes.on.international.trade....of.revenue.,
      intl_trade_tax_lcu = Taxes.on.international.trade..current.LCU.,
      pol_stab_est = Political.Stability.and.Absence.of.Violence.Terrorism..Estimate,
      govt_educ = Government.expenditure.on.education..total....of.GDP.,
      internet = Individuals.using.the.Internet....of.population.,
      popn = Population..total
    )
```

```
head(data)
```

```
##   country year id gdp_cap_2015   fdi_in   fdi_out gdp_cap trade_per_gdp
## 1  Brazil 1990  1   6086.078 0.2140916 0.14395442 3065.242    15.15560
## 2  Brazil 1991  1   6043.433 0.2707826 0.24893342 2656.497    16.59208
## 3  Brazil 1992  1   5911.687 0.5276628 0.03507511 2505.378    19.25337
## 4  Brazil 1993  1   6103.377 0.2947738 0.11202316 2766.346    19.59932
## 5  Brazil 1994  1   6358.679 0.5624007 0.18984685 3393.143    18.67476
## 6  Brazil 1995  1   6524.519 0.6315860 0.17989608 4704.960    16.98446
##   pol_stab_est govt_educ   internet   popn intl_trade_tax
## 1           NA        NA 0.000000000 150706446          NA
## 2           NA        NA 0.003288171 153336445          NA
## 3           NA        NA 0.012946262 155900790          NA
## 4           NA        NA 0.025498253 158440875          NA
## 5           NA        NA 0.037672709 160980472          NA
## 6           NA    4.56816 0.105138168 163515328          NA
##   intl_trade_tax_lcu real_interest
## 1                 NA           NA
## 2                 NA           NA
## 3                 NA           NA
## 4                 NA           NA
## 5                 NA           NA
## 6                 NA           NA
##   Foreign.direct.investment..net.inflows..BoP..current.US.. fdi_bop_per_capita
## 1                                                           NA           NA
## 2                                                           NA           NA
## 3                                                           NA           NA
## 4                                                           NA           NA
```

```
## 5
## 6
```

NA

4.86e+09

NA

29.7

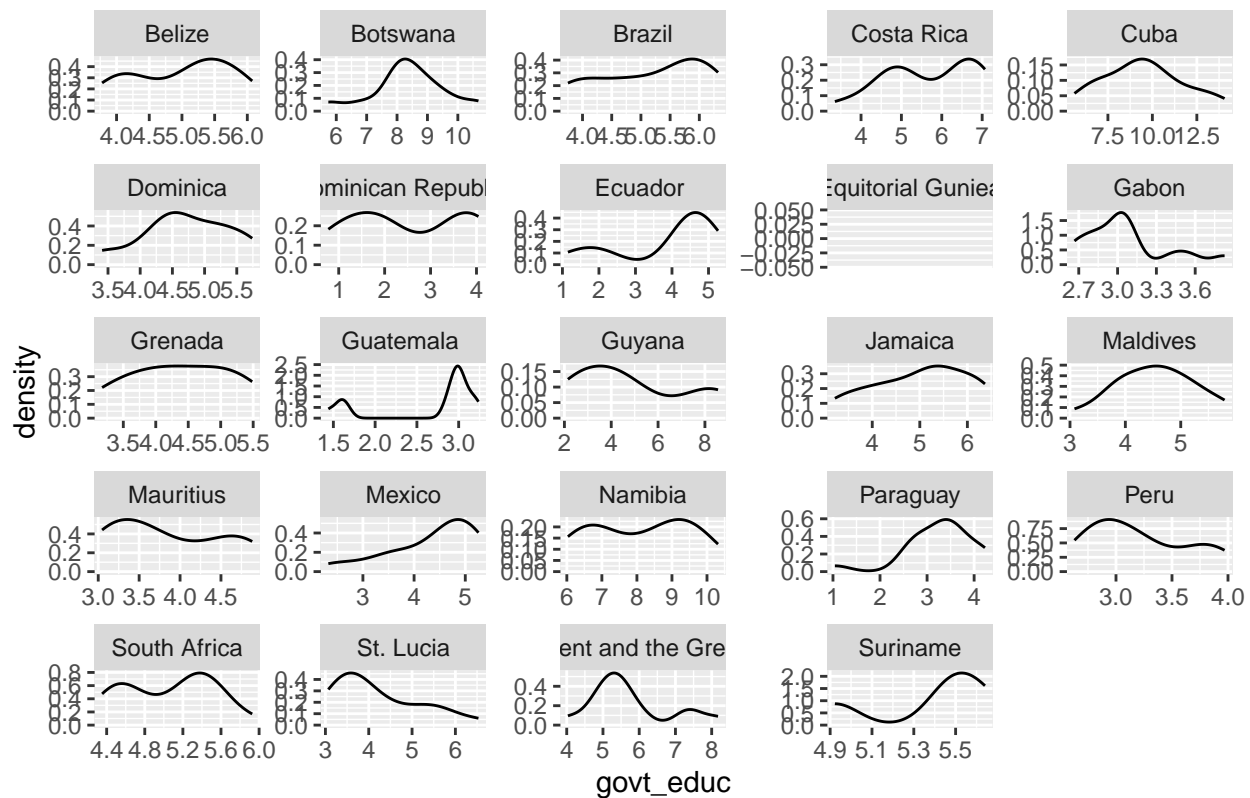
```
ggplot(data, aes(x = govt_educ)) +
  geom_density() +
  facet_wrap(~ country, scales = "free") +
  labs(title = "Distribution of govt_educ before Imputation")
```

```
## Warning: Removed 304 rows containing non-finite outside the scale range
## (`stat_density()`).
```

```
## Warning: Groups with fewer than two data points have been dropped.
```

```
## Warning in max(ids, na.rm = TRUE): no non-missing arguments to max; returning
## -Inf
```

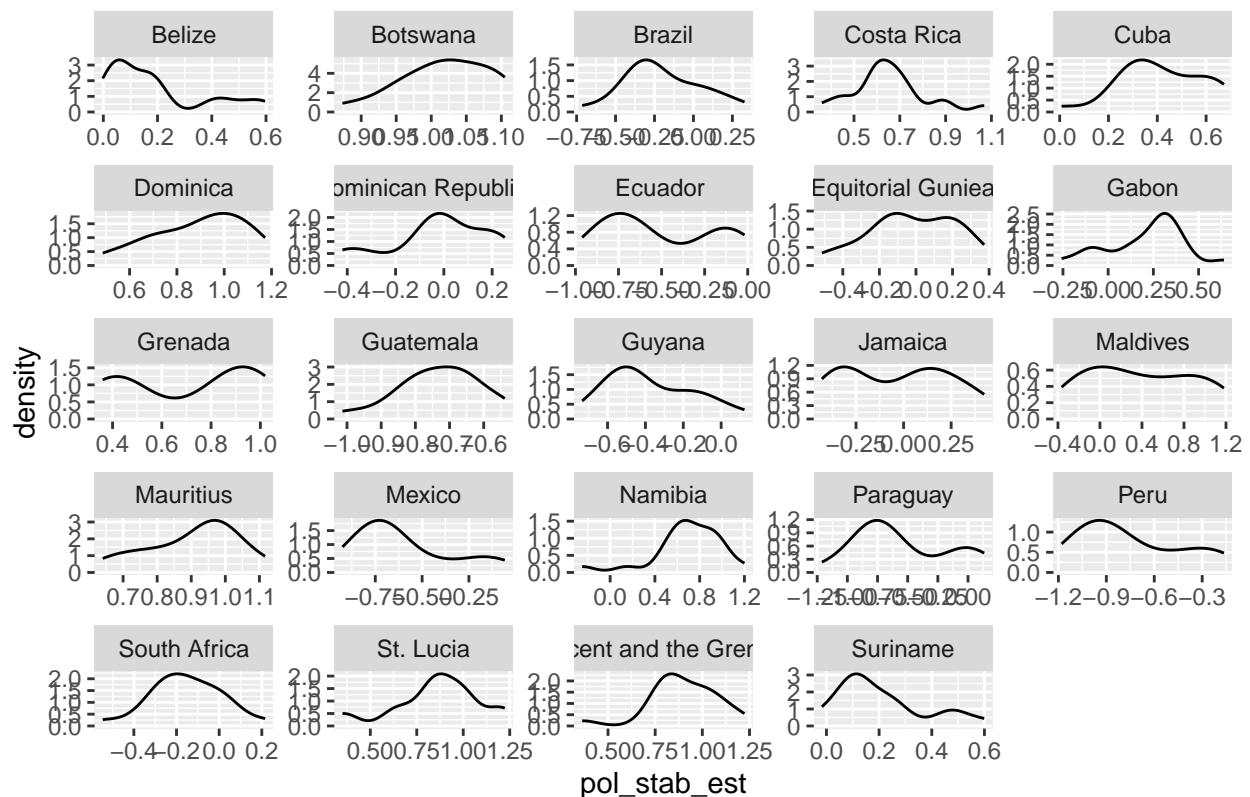
Distribution of govt_educ before Imputation



```
ggplot(data, aes(x = pol_stab_est)) +
  geom_density() +
  facet_wrap(~ country, scales = "free") +
  labs(title = "Distribution of pol_stab_est before Imputation")
```

```
## Warning: Removed 216 rows containing non-finite outside the scale range
## (`stat_density()`).
```

Distribution of pol_stab_est before Imputation



```
imputed_data <- data %>%
  filter(country != "Equitorial Guniea") %>%
  group_by(country) %>%
  nest() %>%
  mutate(imputed_govt_educ = map(data, ~ mice(data = .x[, c("year", "govt_educ")], m = 5, method = "pmm", seed = 12345)))
  mutate(imputed_pol_stab = map(data, ~ mice(data = .x[, c("year", "pol_stab_est")], m = 5, method = "pmm", seed = 12345)))
  mutate(imputed_data = map2(imputed_govt_educ, imputed_pol_stab, ~bind_cols(complete(.x, action = "long", times = 5))))
  unnest(cols = imputed_data)
```

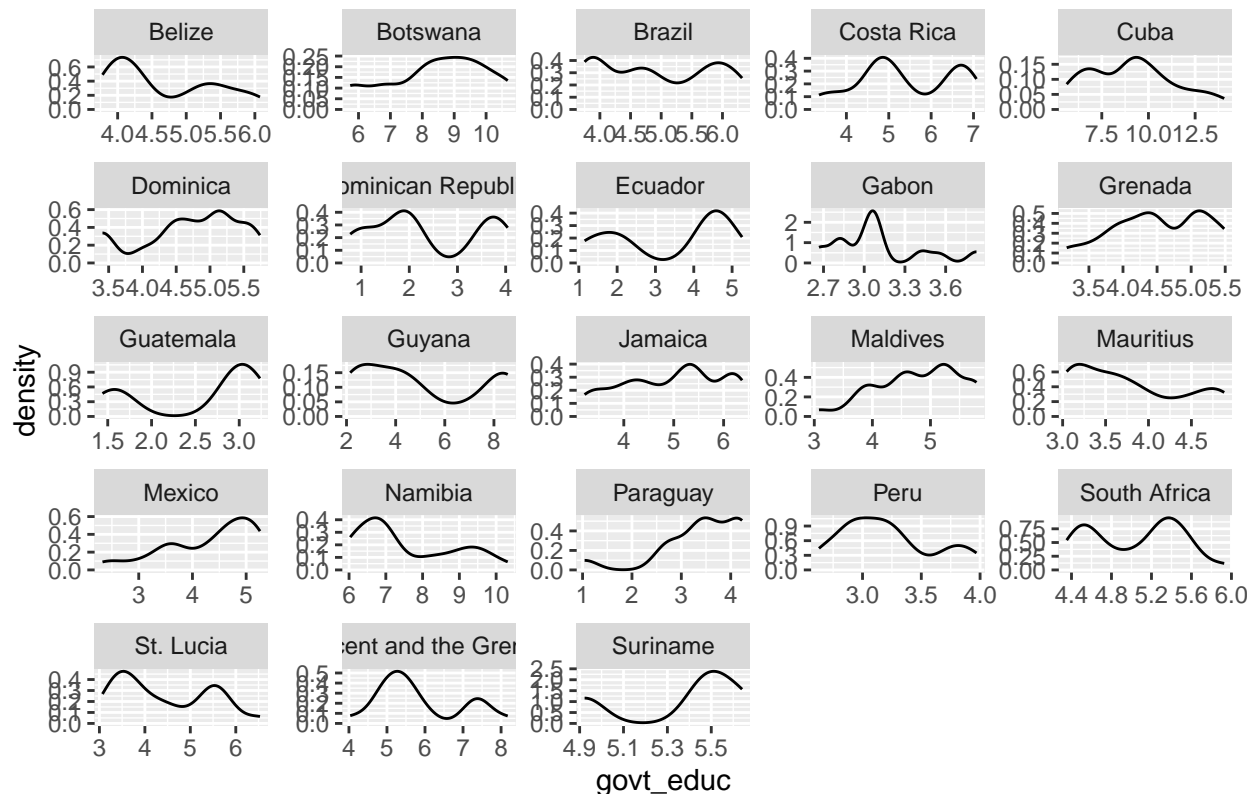
```
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
```

```
## New names:
## New names:
## New names:
## New names:
## New names:
## * `imp` -> `imp...1`
## * `id` -> `id...2`
## * `year` -> `year...3`
## * `imp` -> `imp...5`
## * `id` -> `id...6`
## * `year` -> `year...7`
```

```
ggplot(imputed_data, aes(x = govt_educ)) +
  geom_density() +
  facet_wrap(~ country, scales = "free") +
  labs(title = "Distribution of govt_educ after Imputation")
```

```
## Warning: Removed 275 rows containing non-finite outside the scale range
## (`stat_density()`).
```

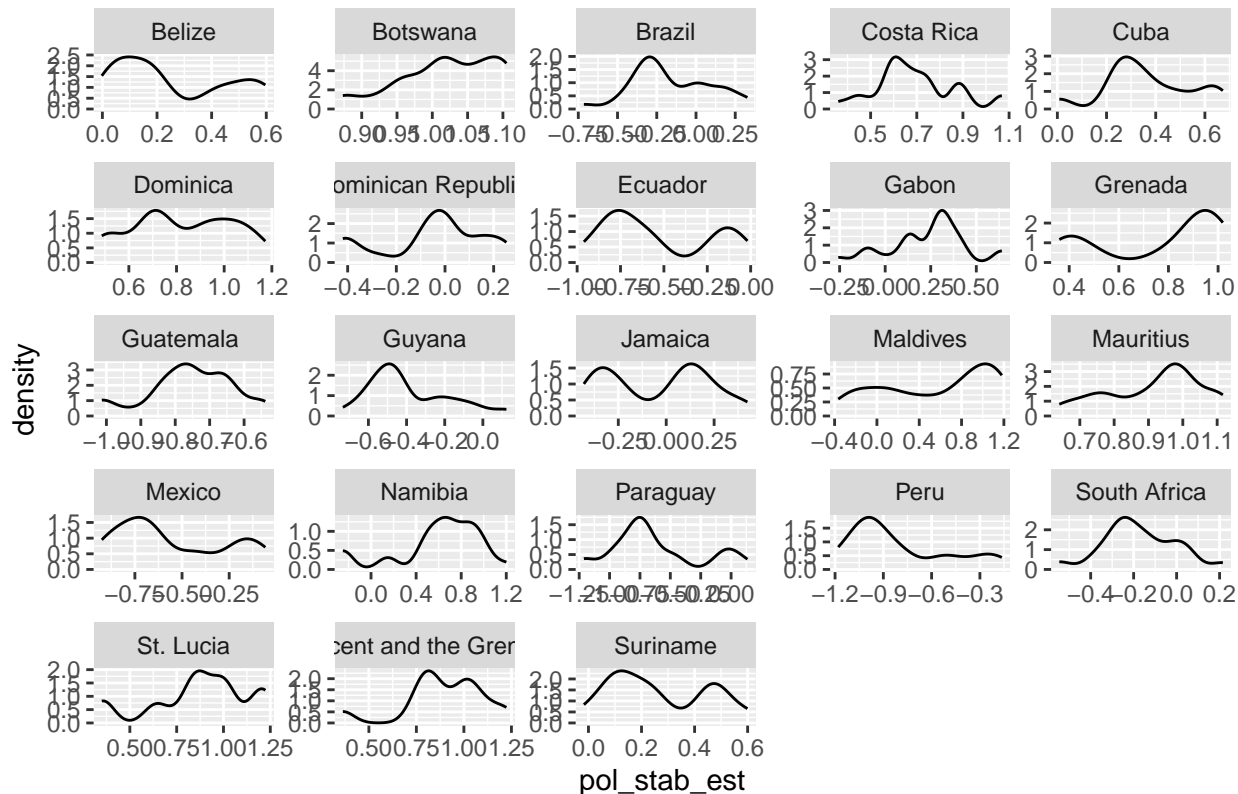
Distribution of govt_educ after Imputation



```
ggplot(imputed_data, aes(x = pol_stab_est)) +
  geom_density() +
  facet_wrap(~ country, scales = "free") +
  labs(title = "Distribution of pol_stab_est after Imputation")
```

```
## Warning: Removed 207 rows containing non-finite outside the scale range
## (`stat_density()`).
```


Distribution of pol_stab_est after Imputation



```
# Perform missing data imputation for govt_educ and pol_stab_est using mice (synthetic control)
imputed_data <- data %>%
  filter(country != "Equatorial Guinea") %>%
  group_by(country) %>%
  nest() %>%
  mutate(imputed_govt_educ = map(data, ~ mice(data = .x[, c("year", "govt_educ")], m = 5, method = "norm",
  mutate(imputed_pol_stab = map(data, ~ mice(data = .x[, c("year", "pol_stab_est")], m = 5, method = "norm",
  mutate(imputed_data = map2(imputed_govt_educ, imputed_pol_stab, ~ left_join(complete(.x, action = "long",
  unnest(cols = imputed_data)
```

```
## Warning: There were 23 warnings in `mutate()`.
## The first warning was:
## i In argument: `imputed_data = map2(...)`.
```

```
## i In group 1: `country = "Belize"`.
## Caused by warning in `left_join()`:
## ! Detected an unexpected many-to-many relationship between `x` and `y`.
## i Row 1 of `x` matches multiple rows in `y`.
## i Row 1 of `y` matches multiple rows in `x`.
## i If a many-to-many relationship is expected, set `relationship =
## "many-to-many"` to silence this warning.
## i Run `dplyr::last_dplyr_warnings()` to see the 22 remaining warnings.
```

```
# Calculate the average of imputed values for each year within each country
imputed_data_avg <- imputed_data %>%
  group_by(country, year) %>%
  summarise(govt_educ = mean(govt_educ, na.rm = TRUE),
            pol_stab_est = mean(pol_stab_est, na.rm = TRUE))
```

Table 1: Summary Statistics

Variable	N	Mean	Std. Dev.	Min	Pctl. 25	Pctl. 75	Max
gdp_cap	720	5037	2985	187	2806	6693	19850
trade_per_gdp	529	76	37	15	48	95	275
pol_stab_est	690	0.2	0.66	-1.5	-0.28	0.79	1.7
govt_educ	690	4.9	2.1	0.31	3.3	5.7	14
internet	713	19	22	0	0.31	34	81
fdi_bop_per_capita	715	354	1601	-794	0	224	23900

```
## `summarise()` has grouped output by 'country'. You can override using the
## `.groups` argument.
```

```
# Merge the averaged imputed data back into the filtered dataset
```

```
merged_data <- data %>%
```

```
  select(-govt_educ, -pol_stab_est) %>% # Remove the original govt_educ and pol_stab_est variables
  left_join(imputed_data_avg, by = c("country", "year"))
```

```
# View the updated dataset
```

```
head(merged_data)
```

```
##   country year id gdp_cap_2015   fdi_in   fdi_out gdp_cap trade_per_gdp
## 1  Brazil 1990  1   6086.078 0.2140916 0.14395442 3065.242    15.15560
## 2  Brazil 1991  1   6043.433 0.2707826 0.24893342 2656.497    16.59208
## 3  Brazil 1992  1   5911.687 0.5276628 0.03507511 2505.378    19.25337
## 4  Brazil 1993  1   6103.377 0.2947738 0.11202316 2766.346    19.59932
## 5  Brazil 1994  1   6358.679 0.5624007 0.18984685 3393.143    18.67476
## 6  Brazil 1995  1   6524.519 0.6315860 0.17989608 4704.960    16.98446
##   internet   popn intl_trade_tax intl_trade_tax_lcu real_interest
## 1 0.000000000 150706446           NA           NA           NA
## 2 0.003288171 153336445           NA           NA           NA
## 3 0.012946262 155900790           NA           NA           NA
## 4 0.025498253 158440875           NA           NA           NA
## 5 0.037672709 160980472           NA           NA           NA
## 6 0.105138168 163515328           NA           NA           NA
##   Foreign.direct.investment..net.inflows..BoP..current.US.. fdi_bop_per_capita
## 1                                                                NA           NA
## 2                                                                NA           NA
## 3                                                                NA           NA
## 4                                                                NA           NA
## 5                                                                NA           NA
## 6                                                                4.86e+09    29.7
##   govt_educ pol_stab_est
## 1  2.857108  0.344843774
## 2  3.012677 -0.007502549
## 3  3.432674  0.314661194
## 4  3.500593  0.313099208
## 5  3.686193  0.054930021
## 6  4.568160  0.212099695
```

```
#descriptive stats table
```

```
# descr(merged_data[, c("year", "gdp_cap", "trade_per_gdp", "pol_stab_est", "govt_educ", "internet")])
st(merged_data, vars = c("gdp_cap", "trade_per_gdp", "pol_stab_est", "govt_educ", "internet", "fdi_bop_per_capita"))
```

```

dataprep_out <- dataprep(
  foo = merged_data,
  predictors = c("gdp_cap", "trade_per_gdp", "pol_stab_est", "govt_educ", "internet"),
  # predictors.op = "mean",
  time.predictors.prior = 1995:2005,
  dependent = "fdi_bop_per_capita",
  unit.variable = "id",
  unit.names.variable = "country",
  time.variable = "year",
  treatment.identifier = 24,
  controls.identifier = c(2:5, 7:8, 10, 12:14, 16:20), # c(1:4, 7, 12, 14, 16:20),
  time.optimize.ssr = 1995:2005, # pretreatment for dependent
  time.plot = 1995:2019
)

```

```

synth_out <- synth(data.prep.obj = dataprep_out)

```

```

##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
##  searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 2448.899
##
## solution.v:
##  0.0007954393 0.1208847 0.5294094 7.805e-07 0.3489097
##
## solution.w:
##  0.01641852 0.00595456 0.005184547 0.3304196 0.01750175 0.02019968 0.01049561 0.01719477 0.007194166

```

```

synth.tables <- synth.tab(
  dataprep.res = dataprep_out,
  synth.res = synth_out)
print(synth.tables)

```

```

## $tab.pred
##
##      Treated Synthetic Sample Mean
## gdp_cap      3815.434   3797.848    3176.999
## trade_per_gdp   45.266    45.294     83.102
## pol_stab_est   -0.230   -0.230      0.018
## govt_educ       4.715     5.244     4.474
## internet       4.682     4.682     3.875
##
## $tab.v
##
##      v.weights
## gdp_cap      0.001
## trade_per_gdp 0.121
## pol_stab_est  0.529

```

```

## govt_educ      0
## internet      0.349
##
## $tab.w
##      w.weights      unit.names unit.numbers
## 2      0.016      Belize      2
## 3      0.006      Botswana      3
## 4      0.005      Costa Rica      4
## 5      0.330      Cuba      5
## 7      0.018 Dominican Republic      7
## 8      0.020      Ecuador      8
## 10     0.010      Gabon      10
## 12     0.017      Guatemala      12
## 13     0.007      Guyana      13
## 14     0.015      Jamaica      14
## 16     0.013      Mauritius      16
## 17     0.279      Mexico      17
## 18     0.010      Namibia      18
## 19     0.012      Paraguay      19
## 20     0.240      Peru      20
##
## $tab.loss
##      Loss W      Loss V
## [1,] 2.257762e-07 2448.899

top_weights <- head(synth.tables$tab.w[order(synth.tables$tab.w$w, decreasing = TRUE), ], 5)

# Extract the top 5 weights
cat("\nRobustness test weights - taking out Cuba from Donor Pool:\n")

##
## Robustness test weights - taking out Cuba from Donor Pool:

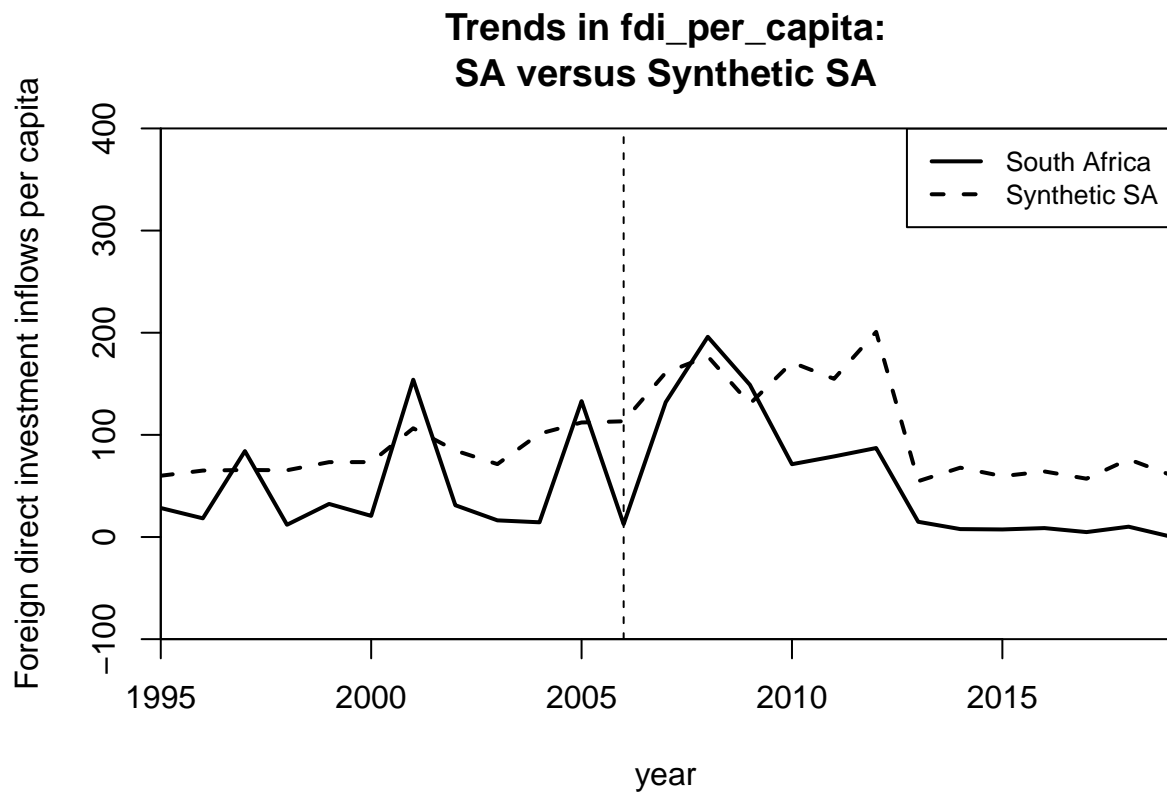
print(top_weights)

##      w.weights      unit.names unit.numbers
## 5      0.330      Cuba      5
## 17     0.279      Mexico      17
## 20     0.240      Peru      20
## 8      0.020      Ecuador      8
## 7      0.018 Dominican Republic      7

path.plot(synth_out, dataprep_out,
  Ylab = c("Foreign direct investment inflows per capita"),
  Xlab = c("year"),
  Legend = c("South Africa", "Synthetic SA"),
  Main = "Trends in fdi_per_capita:\nSA versus Synthetic SA",
  Ylim = c(-100, 400)
)

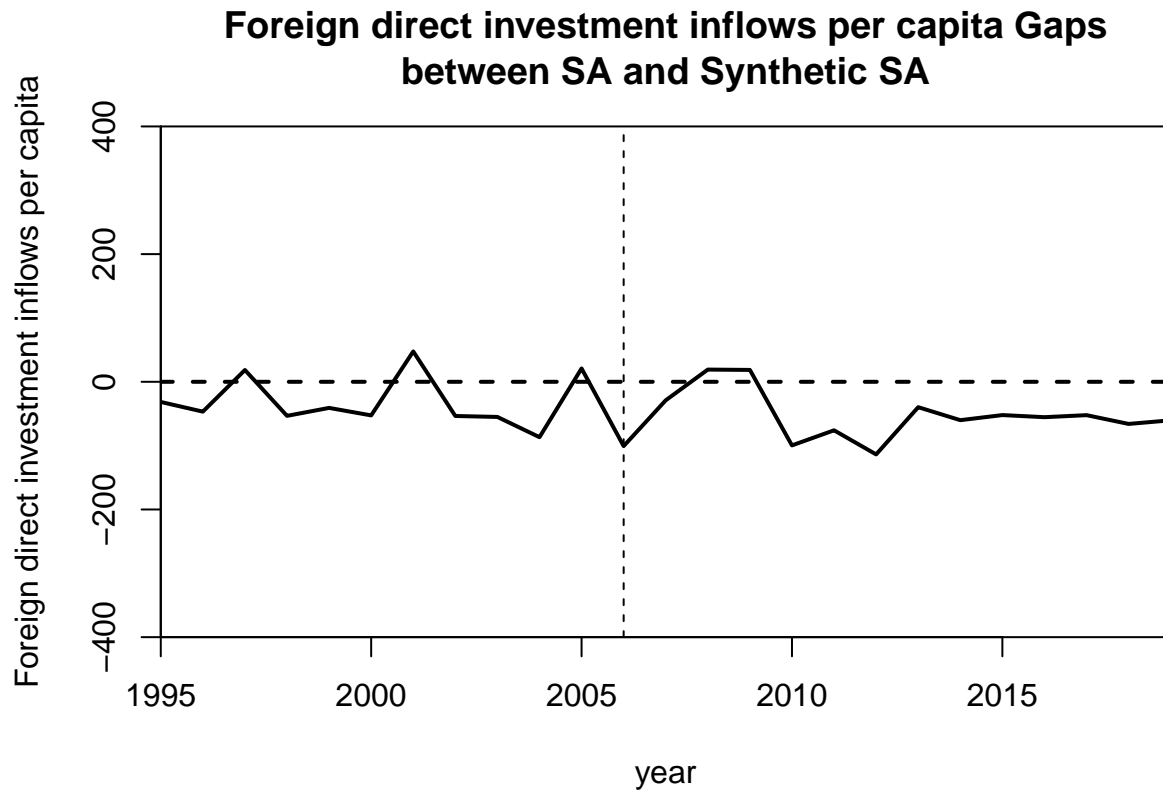
abline(v = 2006, lty = 2)

```



```
# gaps plot
gaps.plot(synth.res = synth_out,
          dataprep.res = dataprep_out,
          Ylab = c("Foreign direct investment inflows per capita"),
          Xlab = c("year"),
          Main = "Foreign direct investment inflows per capita Gaps\nbetween SA and Synthetic S",
          Ylim = c(-400, 400))

abline(v = 2006, lty = 2)
```



```
# arrows(1994, 25, 1996, 25, length = .1)
# text(1990, 25, "Medical Marijuana\nLegalization",
#      cex = 0.8)
```

```
gaps<- dataprep_out$Y1plot-(
  dataprep_out$Y0plot*synth_out$solution.w
) ; gaps
```

```
##          24
## 1995 -31.59382
## 1996 -46.74574
## 1997  18.46729
## 1998 -53.35476
## 1999 -40.89733
## 2000 -52.65242
## 2001  47.54637
## 2002 -53.55205
## 2003 -55.05410
## 2004 -86.75245
## 2005  20.89254
## 2006 -100.69469
## 2007 -28.96954
## 2008  19.12616
## 2009  18.59559
## 2010 -99.64083
## 2011 -75.97929
## 2012 -113.74225
## 2013 -39.76489
## 2014 -60.11923
```

```
## 2015 -52.15069
## 2016 -55.43398
## 2017 -52.27162
## 2018 -66.00093
## 2019 -60.33302
```

Robustness Checks

```
# install.packages("remotes")
# remotes::install_github("bcastanho/SCtools")
library(SCtools)
```

In-space Placebo tests

```
## Loading required package: future
```

```
placebos <- generate.placebos(dataprep_out, synth_out, Sigf.ipop = 5)
```

```
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
## *****
##  searching for synthetic control unit
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 21083.08
##
## solution.v:
##  0.1379261 0.001349831 0.5456375 0.02317939 0.2919072
##
## solution.w:
##  0.01272003 0.1662284 8.5926e-06 0.007432914 0.008613743 0.3021805 0.0103668 0.01458496 0.01756509 0
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
## *****
##  searching for synthetic control unit
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 8857.767
##
## solution.v:
##  0.01687796 0.1131923 0.01202475 0.004202498 0.8537025
##
```

```

## solution.w:
## 0.0003118098 0.0002432953 0.00188681 1.85385e-05 8.2381e-06 0.2062467 4.0027e-06 0.0001106666 4.104
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
## searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 8021.158
##
## solution.v:
## 4e-10 0.5818519 5.7e-09 0.2960028 0.1221452
##
## solution.w:
## 2.1e-09 3.8206e-06 0.0001403703 0 1e-10 5e-10 1e-10 1.3e-09 6.1e-09 0.494132 0.5057238 1.35e-08 6e-
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
## searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 2930.691
##
## solution.v:
## 2.47e-08 0.1436044 0.01106524 7.3e-09 0.8453303
##
## solution.w:
## 5.86e-08 1.36e-07 1.248e-07 3.84e-08 0.8837426 5.5e-09 1.14e-08 1.8e-09 2.01e-08 2.68e-08 1.71825e-
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
## searching for synthetic control unit
##
##
## *****
## *****
## *****

```



```

##
## MSPE (LOSS V): 1556.187
##
## solution.v:
## 0.1512742 0.467467 0.04033938 2.89e-08 0.3409194
##
## solution.w:
## 0.03362408 0.04643646 0.09451097 0.0814824 0.06855493 0.03166498 0.1072659 0.06613143 0.04153417 0.
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
## searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 605.2585
##
## solution.v:
## 0.5760672 0.3973799 0.02616863 0.0003428146 4.14283e-05
##
## solution.w:
## 0.00210084 0.003842388 6.0489e-06 0.06378552 0.1479542 0.003900305 0.2945273 0.003400642 0.00391026
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
## searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 22394.31
##
## solution.v:
## 0.1546586 0.09924032 0.08586995 0.1937076 0.4665236
##
## solution.w:
## 0.1937159 0.3138974 2.2e-09 1.5e-09 3.87e-08 0.4923748 1.59e-08 1.09e-08 9.1e-09 1.4e-08 1.33e-08 1
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****

```

```

## searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 3370.051
##
## solution.v:
## 0.5013578 0.0003128123 0.4772426 0.01962149 0.00146533
##
## solution.w:
## 2e-08 1.64e-08 3.39e-08 1.43e-08 3.508e-07 2.7046e-06 2.33e-08 5.1e-09 2.35e-08 3.46e-08 4.8e-09 4.9e-09
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
## searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 644.1798
##
## solution.v:
## 0.255291 0.1602648 0.1645518 0.184098 0.2357943
##
## solution.w:
## 6.3e-09 0.04929471 1.32e-08 5e-10 3.2e-09 6e-10 2.4e-09 0 1.89e-08 9.43e-08 1.3e-09 0.4490357 0.5010357
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
## searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 5648.466
##
## solution.v:
## 0.002244409 0.379159 0.008291287 0.5931836 0.01712172
##
## solution.w:
## 0.05061363 0.02919531 0.1343992 0.03071587 0.06397899 0.05139883 0.04416258 0.05307418 0.1689668 0.1689668 0.1689668 0.1689668

```

```

##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
##  searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 4568.05
##
## solution.v:
##  4.68e-08 0.5502713 0.005704177 0.4440245 6.3e-09
##
## solution.w:
##  5.26662e-05 1.66609e-05 4.39346e-05 1.09794e-05 0.472018 2.28506e-05 0.183043 2.05776e-05 0.3446516
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
##  searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 5554.548
##
## solution.v:
##  0.0007936399 1.0981e-06 0.001907755 0.7128054 0.2844921
##
## solution.w:
##  0.4343238 0.004243963 0.280997 0.02446824 0.0008936169 0.0001786536 0.0004287662 0.0002177069 0.001
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
##  searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 2719.347

```

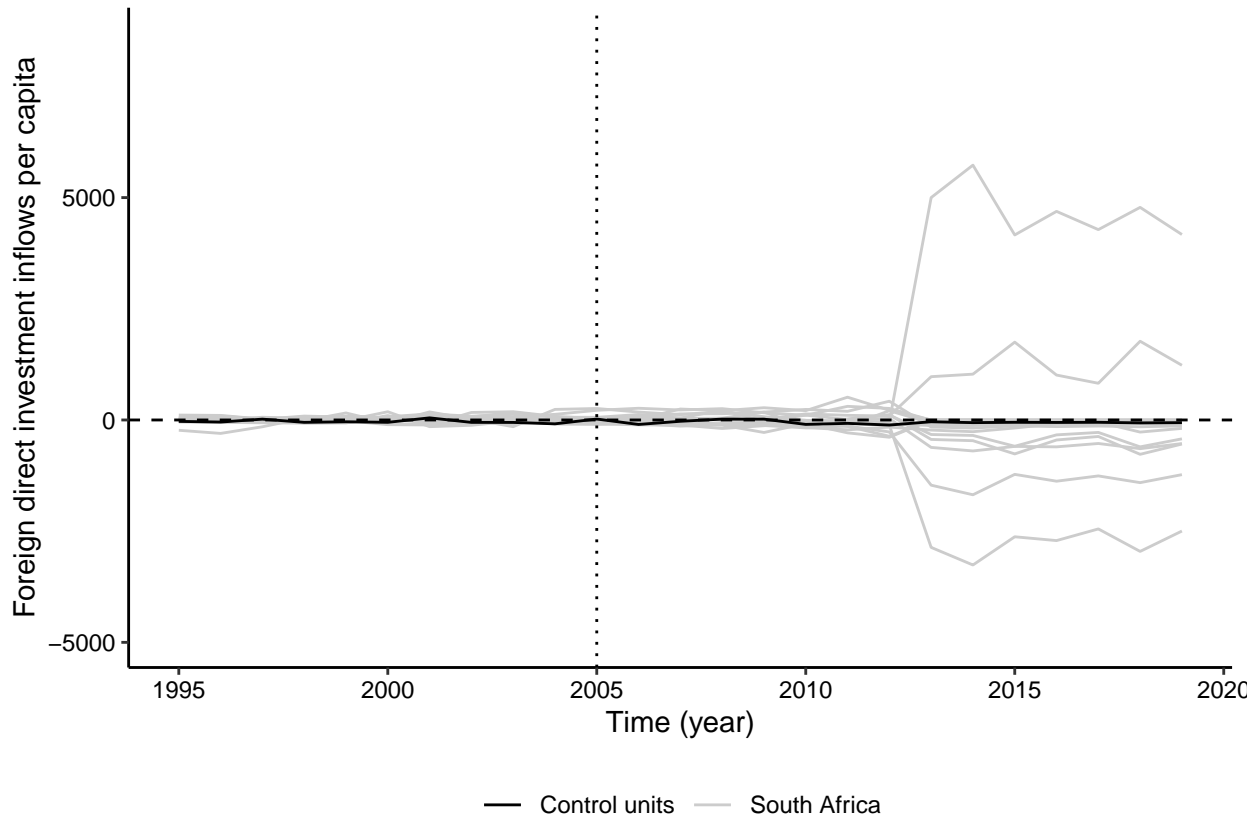
```

##
## solution.v:
## 0.6197193 0.002311019 0.08643633 0.2909228 0.0006106084
##
## solution.w:
## 3.78534e-05 0.2172639 0.263903 2.149e-07 0.01946617 0.0004785324 5.69621e-05 0.005150644 0.42467 4.
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
## searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 1285.134
##
## solution.v:
## 0.000197648 0.04933212 0.2689966 0.66689 0.01458362
##
## solution.w:
## 7.522e-07 2.4008e-06 5.239e-07 1.74637e-05 2.894e-07 2.0935e-06 1.0004e-06 0.5226855 0.2580118 1.42
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
## searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 1422.7
##
## solution.v:
## 0.05927164 0.5043216 0.198307 0.1779857 0.06011404
##
## solution.w:
## 1.5422e-06 1.1871e-06 4.8475e-06 0.02615989 1.7978e-06 0.7918963 6.702e-07 0.03226622 6.512e-07 3.3
##
## New names:
## * `w.weight` -> `w.weight...1`
## * `w.weight` -> `w.weight...2`
## * `w.weight` -> `w.weight...3`
## * `w.weight` -> `w.weight...4`
## * `w.weight` -> `w.weight...5`
## * `w.weight` -> `w.weight...6`

```

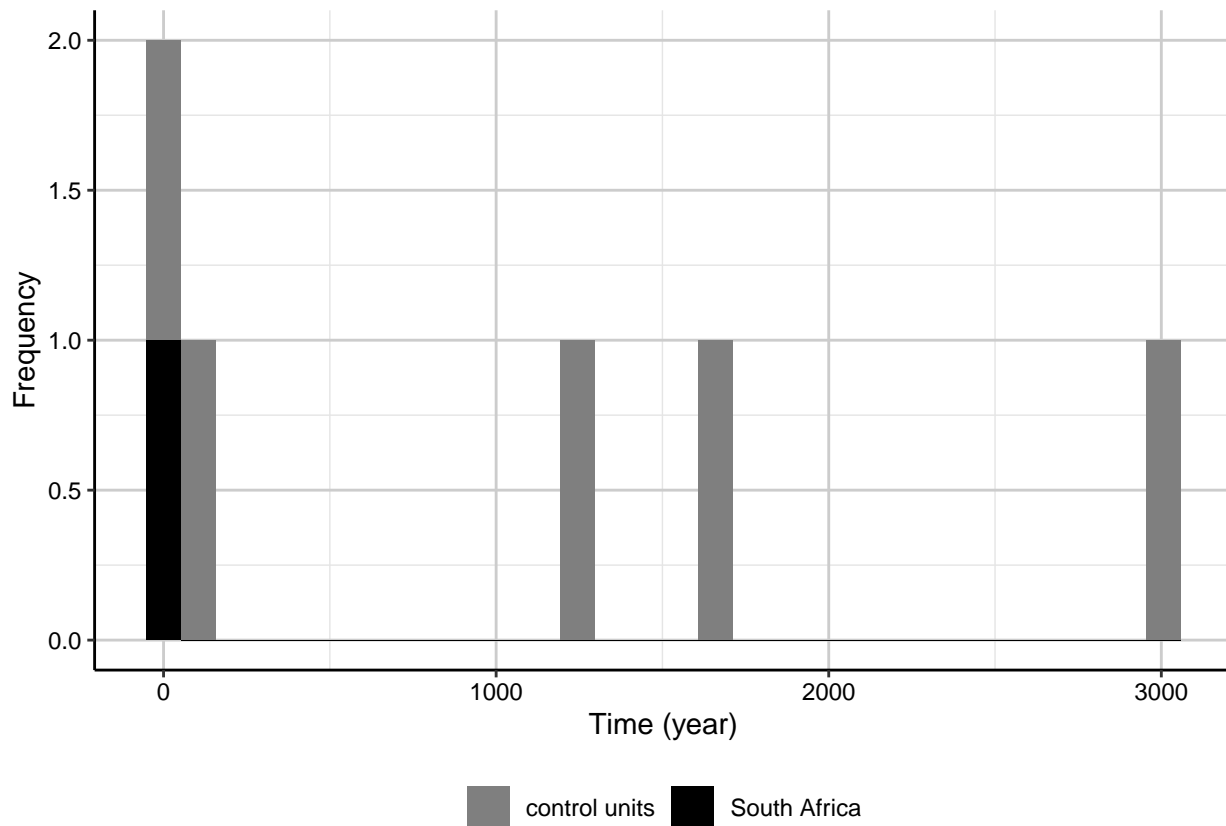
```
## * `w.weight` -> `w.weight...7`
## * `w.weight` -> `w.weight...8`
## * `w.weight` -> `w.weight...9`
## * `w.weight` -> `w.weight...10`
## * `w.weight` -> `w.weight...11`
## * `w.weight` -> `w.weight...12`
## * `w.weight` -> `w.weight...13`
## * `w.weight` -> `w.weight...14`
## * `w.weight` -> `w.weight...15`
```

```
plot_placebos(placebos, xlab = "Time (year)", ylab = "Foreign direct investment inflows per capita")
```



```
mspe.plot(placebos, discard.extreme = TRUE, mspe.limit = 1, plot.hist = TRUE, xlab = "Time (year)", ylab = "Foreign direct investment inflows per capita")
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



```
# ROBUSTNESS TEST -> taking out highest weighted country (Cuba 5) from synthetic control donor pool
dataprep_out2 <- dataprep(
  foo = merged_data,
  predictors = c("gdp_cap", "trade_per_gdp", "pol_stab_est", "govt_educ", "internet"),
  # predictors.op = "mean",
  time.predictors.prior = 1995:2005,
  dependent = "fdi_bop_per_capita",
  unit.variable = "id",
  unit.names.variable = "country",
  time.variable = "year",
  treatment.identifier = 24,
  controls.identifier = c(2:4, 7:8, 10, 12:14, 16:20), # c(1:4, 7, 12, 14, 16:20),
  time.optimize.ssr = 1995:2005, # pretreatment for dependent
  time.plot = 1995:2019
)
```

```
# Run Synth
synth_out2 <- synth(data.prep.obj = dataprep_out2)
```

Remove highest weight country

```
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
```

```

## searching for synthetic control unit
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 3412.635
##
## solution.v:
## 6.23756e-05 0.7048776 0.0005266627 0.0005036989 0.2940297
##
## solution.w:
## 0.0001023298 0.06968575 6.07595e-05 0.000155608 0.297274 0.0001313628 0.0003541634 2.3947e-05 0.000
synth.tables <- synth.tab(
  dataprep.res = dataprep_out2,
  synth.res = synth_out2)
top_weights <- head(synth.tables$tab.w[order(synth.tables$tab.w$w, decreasing = TRUE), ], 5)

# Extract the top 5 weights
cat("\nRobustness test weights - taking out Cuba from Donor Pool:\n")

##
## Robustness test weights - taking out Cuba from Donor Pool:
print(top_weights)

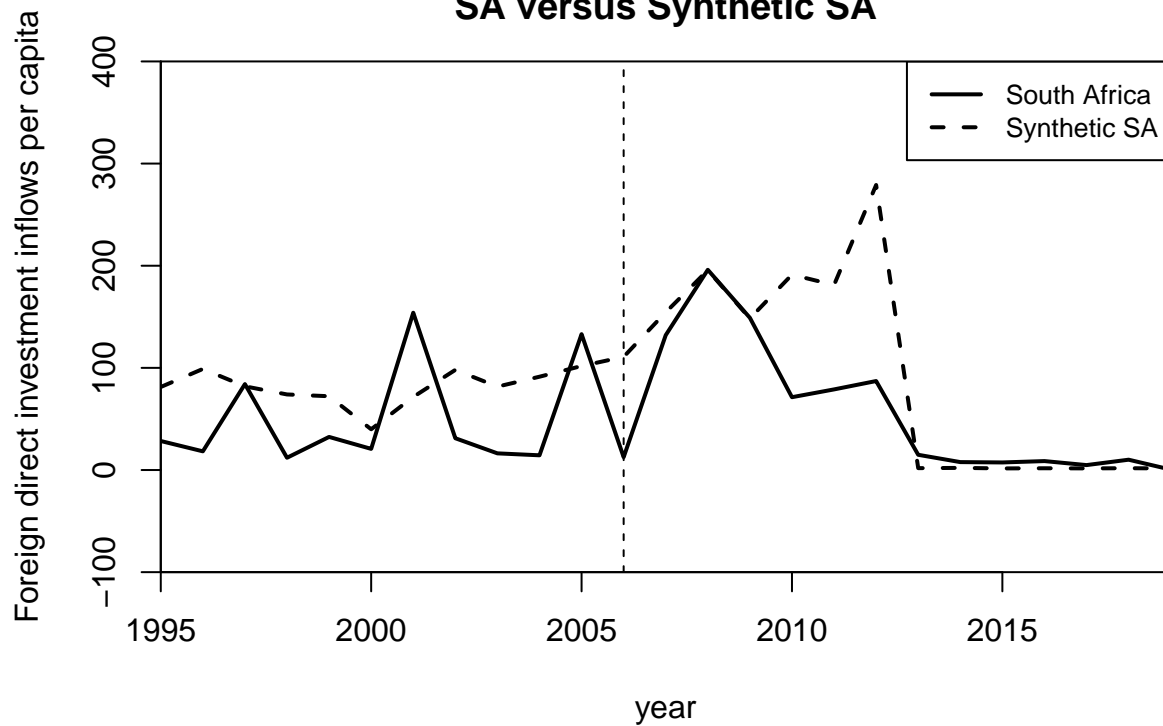
##      w.weights unit.names unit.numbers
## 20      0.512      Peru           20
## 8       0.297      Ecuador          8
## 17      0.119      Mexico          17
## 3       0.070      Botswana          3
## 2       0.000      Belize           2

# path plot
path.plot(synth_out2, dataprep_out2,
  Ylab = c("Foreign direct investment inflows per capita"),
  Xlab = c("year"),
  Legend = c("South Africa", "Synthetic SA"),
  Main = "Robustness check: Trends in fdi_per_capita:\nSA versus Synthetic SA",
  Ylim = c(-100, 400)
)

abline(v = 2006, lty = 2)

```

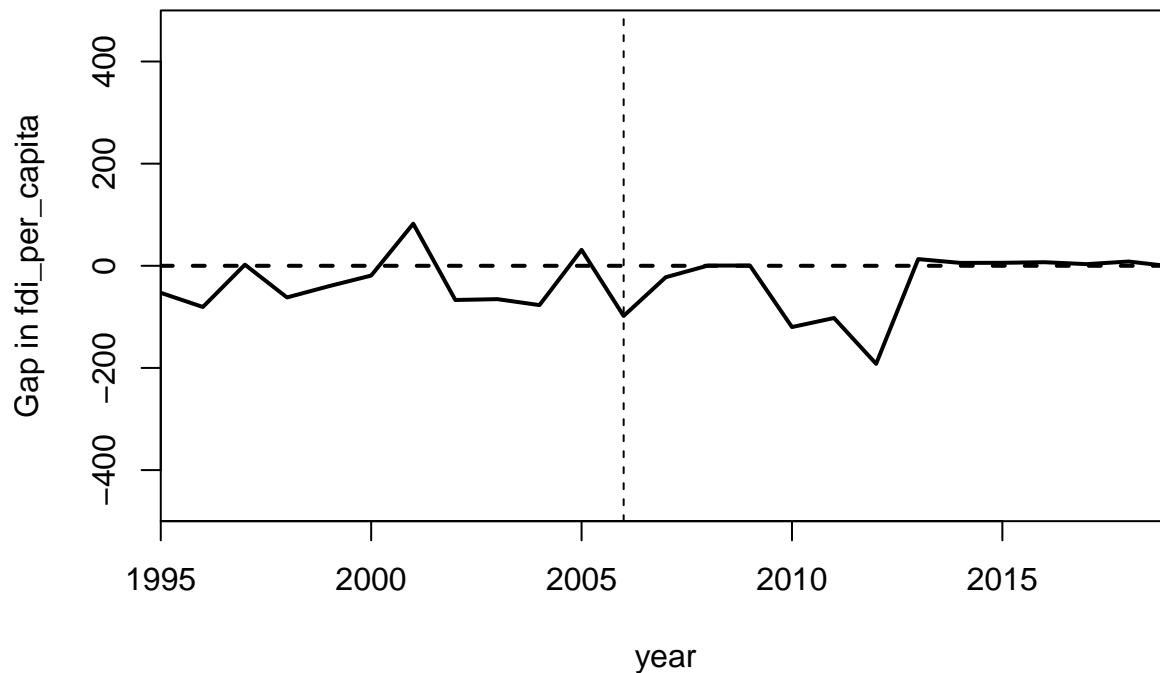
Robustness check: Trends in fdi_per_capita: SA versus Synthetic SA



```
# gaps plot
gaps.plot(synth.res = synth_out2,
          dataprep.res = dataprep_out2,
          Ylab = c("Gap in fdi_per_capita"),
          Xlab = c("year"),
          Main = "Foreign direct investment inflows per capita Gaps\nbetween SA and Synthetic S",
          Ylim = c(-500, 500))

abline(v = 2006, lty = 2)
```


Foreign direct investment inflows per capita Gaps between SA and Synthetic SA



IN-TIME PLACEBO TEST: Choosing a fake treatment year (pre-treatment) 2001

```
dataprep_out3 <- dataprep(
  foo = merged_data,
  predictors = c("gdp_cap", "trade_per_gdp", "pol_stab_est", "govt_educ", "internet"),
  # predictors.op = "mean",
  time.predictors.prior = 1995:2000,
  dependent = "fdi_bop_per_capita",
  unit.variable = "id",
  unit.names.variable = "country",
  time.variable = "year",
  treatment.identifier = 24,
  controls.identifier = c(2:4, 7:8, 10, 12:14, 16:20),
  time.optimize.ssr = 1995:2000, # pretreatment for dependent
  time.plot = 1995:2006
)
```

Run Synth

```
synth_out3 <- synth(data.prep.obj = dataprep_out3)
```

In-time Placebo tests

```
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****
```

```

## searching for synthetic control unit
##
##
## *****
## *****
## *****
##
## MSPE (LOSS V): 2384.897
##
## solution.v:
## 3.56882e-05 0.02845532 0.2093683 0.7621325 8.1462e-06
##
## solution.w:
## 0.0001658042 0.3368163 0.000354362 0.0001141835 0.0002188454 0.0001000569 0.000136092 0 2.69441e-05

synth.tables <- synth.tab(
  dataprep.res = dataprep_out3,
  synth.res = synth_out3)
top_weights <- head(synth.tables$tab.w[order(synth.tables$tab.w$w, decreasing = TRUE), ], 5)

# Extract the top 5 weights
cat("\nRobustness test weights - taking out Cuba from Donor Pool:\n")

##
## Robustness test weights - taking out Cuba from Donor Pool:

print(top_weights)

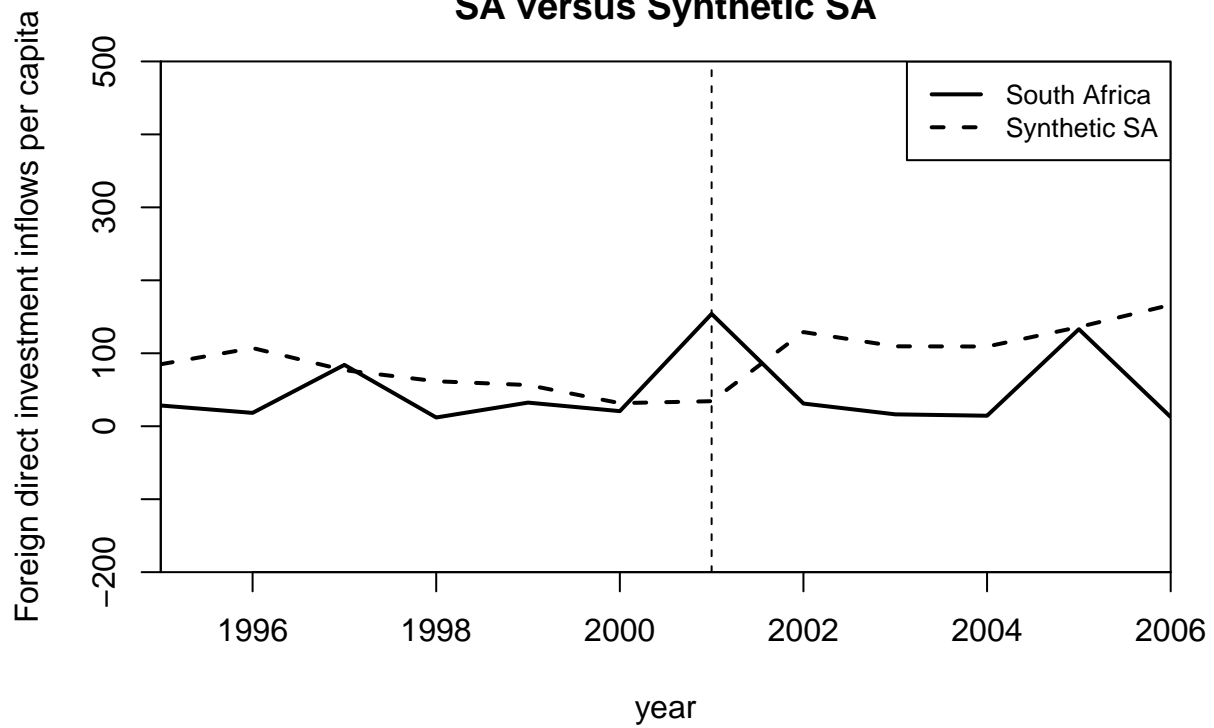
##      w.weights unit.names unit.numbers
## 20      0.660      Peru           20
## 3       0.337    Botswana           3
## 17      0.002      Mexico          17
## 2       0.000      Belize           2
## 4       0.000    Costa Rica          4

# path plot
path.plot(synth_out3, dataprep_out3,
  Ylab = c("Foreign direct investment inflows per capita"),
  Xlab = c("year"),
  Legend = c("South Africa", "Synthetic SA"),
  Main = "Robustness check: Trends in fdi_per_capita:\nSA versus Synthetic SA",
  Ylim = c(-200, 500)
)

abline(v = 2001, lty = 2)

```

Robustness check: Trends in fdi_per_capita: SA versus Synthetic SA



```
# gaps plot
gaps.plot(synth.res = synth_out3,
          dataprep.res = dataprep_out3,
          Ylab = c("Gap in fdi_per_capita"),
          Xlab = c("year"),
          Main = "fdi_per_capita Gap between SA and Synthetic SA",
          Ylim = c(-500, 500))

abline(v = 2001, lty = 2)
```

fdi_per_capita Gap between SA and Synthetic SA

