

PCA analytics

```
library(factoextra)
```

```
## Loading required package: ggplot2
```

```
## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa
```

```
rm(list=ls())  
setwd("~/Documents/SUTD/Term 6/TAE/W2/Social Progress")
```

New York Times opinion column: <https://www.nytimes.com/2020/09/09/opinion/united-states-social-progress.html>

Social Progress Imperative <https://www.socialprogress.org/>

Quoting from their report: The Social Progress Index is a well-established measure, published since 2013, that is meant to catalyze improvement and drive action by presenting social outcome data in a useful and reliable way. Composed of multiple dimensions, the Social Progress Index can be used to benchmark success and provide a holistic, transparent, outcome-based measure of a country's well-being that is independent of economic indicators. Policymakers, businesses, and countries' citizens alike can use it to compare their country against others on different facets of social progress, allowing the identification of specific areas of strength or weakness.

We look at the most recent social progress data from 2011-2020 made available last week (10th September, 2020). Among the 192 countries listed in 2020, 163 are ranked according to Social Progress Index. We will consider this data set for our study.

Goal: How would we fair in creating an index of such nature if we did not have the Social Progress Index at hand.

```
# Read data  
sp2011to2020 <- read.csv("socprog2020.csv")  
# data check  
head(sp2011to2020)  
dim(sp2011to2020)
```

Note that there is a ranking of the countries and a social progress index mentioned here.

Data processing We select the relevant parts for use. First we take the country information and remove first few columns. Keep year 2020 and *Ranked* ones.

```
spi2020 <- subset(sp2011to2020, SPI.year == "2020" & Status == "Ranked")  
head(spi2020)
```

##	SPI.Rank	Country	SPI.country.code	SPI.year	Status	Social.Progress.Index
## 2	155	Afghanistan	AFG	2020	Ranked	42.29
## 3	54	Albania	ALB	2020	Ranked	75.41
## 4	83	Algeria	DZA	2020	Ranked	69.92
## 5	151	Angola	AGO	2020	Ranked	48.16
## 6	41	Argentina	ARG	2020	Ranked	80.66
## 7	50	Armenia	ARM	2020	Ranked	76.46
##	Basic.Human.Needs Foundations.of.Wellbeing Opportunity					
## 2		52.90		39.50		34.47
## 3		86.92		82.71		56.60
## 4		87.69		66.05		56.02
## 5		52.60		52.20		39.69
## 6		87.73		80.05		74.20
## 7		87.91		78.22		63.24
##	Nutrition.and.Basic.Medical.Care Water.and.Sanitation Shelter Personal.Safety					
## 2		61.51		49.45	56.63	44.02
## 3		92.99		90.61	90.54	73.55
## 4		92.24		93.81	93.51	71.21
## 5		64.94		37.69	57.31	50.46
## 6		94.33		95.79	95.49	65.33
## 7		94.66		92.50	90.66	73.83
##	Access.to.Basic.Knowledge Access.to.Information.and.Communications					
## 2		30.55				41.07
## 3		92.32				77.32
## 4		81.00				51.41
## 5		57.07				37.50
## 6		88.50				85.67
## 7		93.42				80.04
##	Health.and.Wellness Environmental.Quality Personal.Rights					
## 2		34.47		51.93		40.88
## 3		74.47		86.71		82.06
## 4		68.13		63.63		50.32
## 5		44.64		69.58		58.24
## 6		69.55		76.50		88.36
## 7		67.84		71.58		80.48
##	Personal.Freedom.and.Choice Inclusiveness Access.to.Advanced.Education					
## 2		39.82		30.11		27.05
## 3		47.09		42.50		54.75
## 4		69.00		45.01		59.75
## 5		42.43		30.96		27.13
## 6		69.77		63.14		75.53
## 7		60.86		48.04		63.59
##	Undernourishment....of.pop.. Deaths.from.infectious.diseases..deaths.100.000.					
## 2		29.9				154.9591
## 3		3.6				15.8144
## 4		2.8				22.5509
## 5		18.6				418.9029
## 6		3.8				67.3925
## 7		2.6				19.5087
##	Child.stunting....of.children.					
## 2		48.734				
## 3		20.819				
## 4		12.544				
## 5		41.041				

## 6	7.440
## 7	12.050
## Maternal.mortality.rate..deaths.100.000.live.births.	
## 2	289.414
## 3	9.529
## 4	61.177
## 5	183.254
## 6	49.232
## 7	25.185
## Child.mortality.rate..deaths.1.000.live.births.	
## 2	62.2764
## 3	8.8233
## 4	23.4821
## 5	77.1645
## 6	9.9450
## 7	12.3806
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	
## 2	16.200
## 3	0.273
## 4	1.028
## 5	101.626
## 6	1.466
## 7	0.528
## Populations.using.unsafe.or.unimproved.water.sources....	
## 2	82.506
## 3	17.556
## 4	11.641
## 5	76.625
## 6	7.812
## 7	2.950
## Populations.using.unsafe.or.unimproved.sanitation....	
## 2	69.794
## 3	12.509
## 4	7.580
## 5	54.542
## 6	4.728
## 7	21.700
## Usage.of.clean.fuels.and.technology.for.cooking....of.pop..	
## 2	37
## 3	80
## 4	95
## 5	48
## 6	95
## 7	95
## Access.to.electricity....of.pop..	
## 2	98.7132
## 3	100.0000
## 4	100.0000
## 5	43.2593
## 6	100.0000
## 7	100.0000
## Household.air.pollution.attributable.deaths..deaths.100.000.	
## 2	155.837
## 3	31.459

## 4		34.701
## 5		78.762
## 6		24.101
## 7		49.918
##	Traffic.deaths..deaths.100.000.	
## 2	32.777	
## 3	7.707	
## 4	17.138	
## 5	28.970	
## 6	13.124	
## 7	7.313	
##	Political.killings.and.torture..0.low.freedom..1.high.freedom.	
## 2		0.35
## 3		0.95
## 4		0.60
## 5		0.58
## 6		0.78
## 7		0.90
##	Perceived.criminality..1.low..5.high. Homicide.rate..deaths.100.000.	
## 2	5	6.6556
## 3	4	2.2895
## 4	3	1.3643
## 5	5	NA
## 6	4	5.3245
## 7	4	1.6939
##	Access.to.quality.education..0.unequal..4.equal. Women.with.no.schooling	
## 2	0.819	0.7086
## 3	2.585	0.0075
## 4	3.029	0.1892
## 5	0.794	0.1272
## 6	2.762	0.0043
## 7	3.100	0.0011
##	Gender.parity.in.secondary.attainment..distance.from.parity.	
## 2		0.6423
## 3		0.0075
## 4		0.0051
## 5		0.3937
## 6		0.0506
## 7		0.0072
##	Primary.school.enrollment....of.children.	
## 2	NA	
## 3	97.4422	
## 4	99.6475	
## 5	NA	
## 6	99.5673	
## 7	93.0948	
##	Secondary.school.attainment....of.population.	
## 2	26.1	
## 3	92.9	
## 4	38.9	
## 5	30.2	
## 6	64.8	
## 7	97.2	
##	Access.to.online.governance..0.low..1.high.	

## 2	0.4643	
## 3	0.8452	
## 4	0.1548	
## 5	0.4524	
## 6	0.8571	
## 7	0.7500	
## Media.censorship..0.frequent..4.rare. Internet.users....of.pop..		
## 2	1.850	13.5000
## 3	1.724	71.8470
## 4	0.931	49.0385
## 5	2.180	14.3391
## 6	3.136	74.2949
## 7	3.096	64.7449
## Mobile.telephone.subscriptions..subscriptions.100.people.		
## 2		59.1208
## 3		94.1770
## 4		111.6648
## 5		43.1305
## 6		132.0932
## 7		121.2590
## Access.to.quality.healthcare..0.unequal..4.equal.		
## 2	2.022	
## 3	2.956	
## 4	1.621	
## 5	0.958	
## 6	2.744	
## 7	3.292	
## Access.to.essential.services...0.none..100.full.coverage.		
## 2		46.067
## 3		81.062
## 4		72.764
## 5		44.479
## 6		74.685
## 7		76.644
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.		
## 2		944.478
## 3		276.036
## 4		270.149
## 5		430.054
## 6		327.380
## 7		413.570
## Life.expectancy.at.60..years.		
## 2	15.2592	
## 3	22.0736	
## 4	22.7445	
## 5	16.8830	
## 6	21.3868	
## 7	19.8741	
## Greenhouse.gas.emissions..total.CO2.equivalents. Particulate.matter		
## 2	34.0	56.668
## 3	10.2	17.942
## 4	229.0	39.322
## 5	101.0	32.532
## 6	348.0	13.261

## 7	11.2	32.354
## Biome.protection Outdoor.air.pollution.attributable.deaths..deaths.100.000.		
## 2	0.1044	45.7377
## 3	17.0000	20.8374
## 4	7.3446	41.9762
## 5	5.7982	29.7593
## 6	7.0858	27.3381
## 7	16.9993	50.0747
## Political.rights..0.no.rights..40.full.rights.		
## 2	13	
## 3	27	
## 4	10	
## 5	11	
## 6	35	
## 7	21	
## Freedom.of.expression..0.no.freedom..1.full.freedom.		
## 2	0.517	
## 3	0.694	
## 4	0.506	
## 5	0.692	
## 6	0.936	
## 7	0.846	
## Freedom.of.religion..0.no.freedom..4.full.freedom.		
## 2	1.930	
## 3	3.637	
## 4	1.675	
## 5	2.702	
## 6	3.844	
## 7	3.306	
## Access.to.justice..0.non.existent..1.observed.		
## 2	0.198	
## 3	0.936	
## 4	0.500	
## 5	0.487	
## 6	0.707	
## 7	0.812	
## Property.rights.for.women..0.no.right..5.full.rights.		
## 2	2.411	
## 3	4.302	
## 4	3.765	
## 5	3.523	
## 6	4.600	
## 7	4.718	
## Vulnerable.employment....of.employees. Corruption..0.high..100.low.		
## 2	79.726	16
## 3	52.852	35
## 4	26.993	35
## 5	65.995	26
## 6	21.805	45
## 7	38.668	42
## Early.marriage....of.women. Satisfied.demand.for.contraception....of.women.		
## 2	17.0939	44.6
## 3	6.0183	8.6
## 4	4.5245	75.4

## 5	17.3424	33.5
## 6	14.3056	83.4
## 7	4.1350	42.5
##	Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	
## 2		1.131
## 3		0.725
## 4		2.271
## 5		0.669
## 6		2.488
## 7		1.899
##	Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	
## 2		2.268
## 3		2.568
## 4		2.573
## 5		0.950
## 6		2.795
## 7		3.594
##	Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	
## 2		1.284
## 3		2.313
## 4		1.879
## 5		2.522
## 6		2.317
## 7		1.737
##	Discrimination.and.violence.against.minorities..0.low..10.high.	
## 2		7.5000
## 3		4.4000
## 4		7.4724
## 5		7.8000
## 6		4.1000
## 7		5.0000
##	Acceptance.of.gays.and.lesbians..0.low..100.high.	
## 2		0.03
## 3		0.08
## 4		NA
## 5		0.13
## 6		0.63
## 7		0.04
##	Quality.weighted.universities..points. Citable.documents	
## 2	2.4	0.0083
## 3	4.4	0.1717
## 4	27.8	0.1884
## 5	1.8	0.0040
## 6	60.0	0.3061
## 7	5.2	0.4446
##	Women.with.advanced.education.... Years.of.tertiary.schooling	
## 2	0.1307	0.4843
## 3	0.5269	2.7763
## 4	0.5501	2.5683
## 5	0.2654	0.5014
## 6	0.7308	4.5005
## 7	0.8350	2.7285

```
# name the rows by the countries
rownames(spi2020) <- spi2020[,2]
spirank <- spi2020[,1]
spi2020 <- spi2020[,-c(1:6)]
dim(spi2020)
```

```
## [1] 163 65
```

```
head(spi2020)
```

```
##          Basic.Human.Needs Foundations.of.Wellbeing Opportunity
## Afghanistan          52.90          39.50          34.47
## Albania              86.92          82.71          56.60
## Algeria              87.69          66.05          56.02
## Angola               52.60          52.20          39.69
## Argentina            87.73          80.05          74.20
## Armenia              87.91          78.22          63.24
##          Nutrition.and.Basic.Medical.Care Water.and.Sanitation Shelter
## Afghanistan          61.51          49.45          56.63
## Albania              92.99          90.61          90.54
## Algeria              92.24          93.81          93.51
## Angola               64.94          37.69          57.31
## Argentina            94.33          95.79          95.49
## Armenia              94.66          92.50          90.66
##          Personal.Safety Access.to.Basic.Knowledge
## Afghanistan          44.02          30.55
## Albania              73.55          92.32
## Algeria              71.21          81.00
## Angola               50.46          57.07
## Argentina            65.33          88.50
## Armenia              73.83          93.42
##          Access.to.Information.and.Communications Health.and.Wellness
## Afghanistan          41.07          34.47
## Albania              77.32          74.47
## Algeria              51.41          68.13
## Angola               37.50          44.64
## Argentina            85.67          69.55
## Armenia              80.04          67.84
##          Environmental.Quality Personal.Rights Personal.Freedom.and.Choice
## Afghanistan          51.93          40.88          39.82
## Albania              86.71          82.06          47.09
## Algeria              63.63          50.32          69.00
## Angola               69.58          58.24          42.43
## Argentina            76.50          88.36          69.77
## Armenia              71.58          80.48          60.86
##          Inclusiveness Access.to.Advanced.Education
## Afghanistan          30.11          27.05
## Albania              42.50          54.75
## Algeria              45.01          59.75
## Angola               30.96          27.13
## Argentina            63.14          75.53
## Armenia              48.04          63.59
```


##	Undernourishment....of.pop..	
##	Afghanistan	29.9
##	Albania	3.6
##	Algeria	2.8
##	Angola	18.6
##	Argentina	3.8
##	Armenia	2.6
##	Deaths.from.infectious.diseases..deaths.100.000.	
##	Afghanistan	154.9591
##	Albania	15.8144
##	Algeria	22.5509
##	Angola	418.9029
##	Argentina	67.3925
##	Armenia	19.5087
##	Child.stunting....of.children.	
##	Afghanistan	48.734
##	Albania	20.819
##	Algeria	12.544
##	Angola	41.041
##	Argentina	7.440
##	Armenia	12.050
##	Maternal.mortality.rate..deaths.100.000.live.births.	
##	Afghanistan	289.414
##	Albania	9.529
##	Algeria	61.177
##	Angola	183.254
##	Argentina	49.232
##	Armenia	25.185
##	Child.mortality.rate..deaths.1.000.live.births.	
##	Afghanistan	62.2764
##	Albania	8.8233
##	Algeria	23.4821
##	Angola	77.1645
##	Argentina	9.9450
##	Armenia	12.3806
##	Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	
##	Afghanistan	16.200
##	Albania	0.273
##	Algeria	1.028
##	Angola	101.626
##	Argentina	1.466
##	Armenia	0.528
##	Populations.using.unsafe.or.unimproved.water.sources....	
##	Afghanistan	82.506
##	Albania	17.556
##	Algeria	11.641
##	Angola	76.625
##	Argentina	7.812
##	Armenia	2.950
##	Populations.using.unsafe.or.unimproved.sanitation....	
##	Afghanistan	69.794
##	Albania	12.509
##	Algeria	7.580
##	Angola	54.542

## Argentina	4.728
## Armenia	21.700
## Usage.of.clean.fuels.and.technology.for.cooking....of.pop..	
## Afghanistan	37
## Albania	80
## Algeria	95
## Angola	48
## Argentina	95
## Armenia	95
## Access.to.electricity....of.pop..	
## Afghanistan	98.7132
## Albania	100.0000
## Algeria	100.0000
## Angola	43.2593
## Argentina	100.0000
## Armenia	100.0000
## Household.air.pollution.attributable.deaths..deaths.100.000.	
## Afghanistan	155.837
## Albania	31.459
## Algeria	34.701
## Angola	78.762
## Argentina	24.101
## Armenia	49.918
## Traffic.deaths..deaths.100.000.	
## Afghanistan	32.777
## Albania	7.707
## Algeria	17.138
## Angola	28.970
## Argentina	13.124
## Armenia	7.313
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	
## Afghanistan	0.35
## Albania	0.95
## Algeria	0.60
## Angola	0.58
## Argentina	0.78
## Armenia	0.90
## Perceived.criminality..1.low..5.high.	
## Afghanistan	5
## Albania	4
## Algeria	3
## Angola	5
## Argentina	4
## Armenia	4
## Homicide.rate..deaths.100.000.	
## Afghanistan	6.6556
## Albania	2.2895
## Algeria	1.3643
## Angola	NA
## Argentina	5.3245
## Armenia	1.6939
## Access.to.quality.education..0.unequal..4.equal.	
## Afghanistan	0.819
## Albania	2.585

##	Algeria	3.029
##	Angola	0.794
##	Argentina	2.762
##	Armenia	3.100
##	Women.with.no.schooling	
##	Afghanistan	0.7086
##	Albania	0.0075
##	Algeria	0.1892
##	Angola	0.1272
##	Argentina	0.0043
##	Armenia	0.0011
##	Gender.parity.in.secondary.attainment..distance.from.parity.	
##	Afghanistan	0.6423
##	Albania	0.0075
##	Algeria	0.0051
##	Angola	0.3937
##	Argentina	0.0506
##	Armenia	0.0072
##	Primary.school.enrollment....of.children.	
##	Afghanistan	NA
##	Albania	97.4422
##	Algeria	99.6475
##	Angola	NA
##	Argentina	99.5673
##	Armenia	93.0948
##	Secondary.school.attainment....of.population.	
##	Afghanistan	26.1
##	Albania	92.9
##	Algeria	38.9
##	Angola	30.2
##	Argentina	64.8
##	Armenia	97.2
##	Access.to.online.governance..0.low..1.high.	
##	Afghanistan	0.4643
##	Albania	0.8452
##	Algeria	0.1548
##	Angola	0.4524
##	Argentina	0.8571
##	Armenia	0.7500
##	Media.censorship..0.frequent..4.rare. Internet.users....of.pop..	
##	Afghanistan	1.850 13.5000
##	Albania	1.724 71.8470
##	Algeria	0.931 49.0385
##	Angola	2.180 14.3391
##	Argentina	3.136 74.2949
##	Armenia	3.096 64.7449
##	Mobile.telephone.subscriptions..subscriptions.100.people.	
##	Afghanistan	59.1208
##	Albania	94.1770
##	Algeria	111.6648
##	Angola	43.1305
##	Argentina	132.0932
##	Armenia	121.2590
##	Access.to.quality.healthcare..0.unequal..4.equal.	

## Afghanistan	2.022	
## Albania	2.956	
## Algeria	1.621	
## Angola	0.958	
## Argentina	2.744	
## Armenia	3.292	
## Access.to.essential.services...0.none..100.full.coverage.		
## Afghanistan	46.067	
## Albania	81.062	
## Algeria	72.764	
## Angola	44.479	
## Argentina	74.685	
## Armenia	76.644	
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.		
## Afghanistan	944.478	
## Albania	276.036	
## Algeria	270.149	
## Angola	430.054	
## Argentina	327.380	
## Armenia	413.570	
## Life.expectancy.at.60..years.		
## Afghanistan	15.2592	
## Albania	22.0736	
## Algeria	22.7445	
## Angola	16.8830	
## Argentina	21.3868	
## Armenia	19.8741	
## Greenhouse.gas.emissions..total.CO2.equivalents. Particulate.matter		
## Afghanistan	34.0	56.668
## Albania	10.2	17.942
## Algeria	229.0	39.322
## Angola	101.0	32.532
## Argentina	348.0	13.261
## Armenia	11.2	32.354
## Biome.protection		
## Afghanistan	0.1044	
## Albania	17.0000	
## Algeria	7.3446	
## Angola	5.7982	
## Argentina	7.0858	
## Armenia	16.9993	
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.		
## Afghanistan	45.7377	
## Albania	20.8374	
## Algeria	41.9762	
## Angola	29.7593	
## Argentina	27.3381	
## Armenia	50.0747	
## Political.rights..0.no.rights..40.full.rights.		
## Afghanistan	13	
## Albania	27	
## Algeria	10	
## Angola	11	
## Argentina	35	

## Armenia	21	
##	Freedom.of.expression..0.no.freedom..1.full.freedom.	
## Afghanistan	0.517	
## Albania	0.694	
## Algeria	0.506	
## Angola	0.692	
## Argentina	0.936	
## Armenia	0.846	
##	Freedom.of.religion..0.no.freedom..4.full.freedom.	
## Afghanistan	1.930	
## Albania	3.637	
## Algeria	1.675	
## Angola	2.702	
## Argentina	3.844	
## Armenia	3.306	
##	Access.to.justice..0.non.existent..1.observed.	
## Afghanistan	0.198	
## Albania	0.936	
## Algeria	0.500	
## Angola	0.487	
## Argentina	0.707	
## Armenia	0.812	
##	Property.rights.for.women..0.no.right..5.full.rights.	
## Afghanistan	2.411	
## Albania	4.302	
## Algeria	3.765	
## Angola	3.523	
## Argentina	4.600	
## Armenia	4.718	
##	Vulnerable.employment....of.employees. Corruption..0.high..100.low.	
## Afghanistan	79.726	16
## Albania	52.852	35
## Algeria	26.993	35
## Angola	65.995	26
## Argentina	21.805	45
## Armenia	38.668	42
##	Early.marriage....of.women.	
## Afghanistan	17.0939	
## Albania	6.0183	
## Algeria	4.5245	
## Angola	17.3424	
## Argentina	14.3056	
## Armenia	4.1350	
##	Satisfied.demand.for.contraception....of.women.	
## Afghanistan	44.6	
## Albania	8.6	
## Algeria	75.4	
## Angola	33.5	
## Argentina	83.4	
## Armenia	42.5	
##	Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	
## Afghanistan		1.131
## Albania		0.725
## Algeria		2.271

##	Angola		0.669
##	Argentina		2.488
##	Armenia		1.899
##	Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.		
##	Afghanistan		2.268
##	Albania		2.568
##	Algeria		2.573
##	Angola		0.950
##	Argentina		2.795
##	Armenia		3.594
##	Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.		
##	Afghanistan		1.284
##	Albania		2.313
##	Algeria		1.879
##	Angola		2.522
##	Argentina		2.317
##	Armenia		1.737
##	Discrimination.and.violence.against.minorities..0.low..10.high.		
##	Afghanistan		7.5000
##	Albania		4.4000
##	Algeria		7.4724
##	Angola		7.8000
##	Argentina		4.1000
##	Armenia		5.0000
##	Acceptance.of.gays.and.lesbians..0.low..100.high.		
##	Afghanistan		0.03
##	Albania		0.08
##	Algeria		NA
##	Angola		0.13
##	Argentina		0.63
##	Armenia		0.04
##	Quality.weighted.universities..points. Citable.documents		
##	Afghanistan	2.4	0.0083
##	Albania	4.4	0.1717
##	Algeria	27.8	0.1884
##	Angola	1.8	0.0040
##	Argentina	60.0	0.3061
##	Armenia	5.2	0.4446
##	Women.with.advanced.education.... Years.of.tertiary.schooling		
##	Afghanistan	0.1307	0.4843
##	Albania	0.5269	2.7763
##	Algeria	0.5501	2.5683
##	Angola	0.2654	0.5014
##	Argentina	0.7308	4.5005
##	Armenia	0.8350	2.7285

Then we remove columns which do not have available data (remove “NA”).

```
NAobject <- colnames(spi2020)[apply(is.na(spi2020), 2, any)]
spi2020 <- spi2020[,!names(spi2020) %in% NAobject]
#check
dim(spi2020)
```

```
## [1] 163 54
```

```
head(spi2020)
```

```
##          Basic.Human.Needs Foundations.of.Wellbeing Opportunity
## Afghanistan          52.90          39.50          34.47
## Albania              86.92          82.71          56.60
## Algeria              87.69          66.05          56.02
## Angola               52.60          52.20          39.69
## Argentina            87.73          80.05          74.20
## Armenia              87.91          78.22          63.24
##          Nutrition.and.Basic.Medical.Care Water.and.Sanitation Shelter
## Afghanistan          61.51          49.45          56.63
## Albania              92.99          90.61          90.54
## Algeria              92.24          93.81          93.51
## Angola               64.94          37.69          57.31
## Argentina            94.33          95.79          95.49
## Armenia              94.66          92.50          90.66
##          Personal.Safety Access.to.Basic.Knowledge
## Afghanistan          44.02          30.55
## Albania              73.55          92.32
## Algeria              71.21          81.00
## Angola               50.46          57.07
## Argentina            65.33          88.50
## Armenia              73.83          93.42
##          Access.to.Information.and.Communications Health.and.Wellness
## Afghanistan          41.07          34.47
## Albania              77.32          74.47
## Algeria              51.41          68.13
## Angola               37.50          44.64
## Argentina            85.67          69.55
## Armenia              80.04          67.84
##          Environmental.Quality Personal.Rights Personal.Freedom.and.Choice
## Afghanistan          51.93          40.88          39.82
## Albania              86.71          82.06          47.09
## Algeria              63.63          50.32          69.00
## Angola               69.58          58.24          42.43
## Argentina            76.50          88.36          69.77
## Armenia              71.58          80.48          60.86
##          Inclusiveness Access.to.Advanced.Education
## Afghanistan          30.11          27.05
## Albania              42.50          54.75
## Algeria              45.01          59.75
## Angola               30.96          27.13
## Argentina            63.14          75.53
## Armenia              48.04          63.59
##          Deaths.from.infectious.diseases..deaths.100.000.
## Afghanistan          154.9591
## Albania              15.8144
## Algeria              22.5509
## Angola              418.9029
## Argentina            67.3925
## Armenia              19.5087
##          Child.stunting....of.children.
## Afghanistan          48.734
```

##	Albania	20.819
##	Algeria	12.544
##	Angola	41.041
##	Argentina	7.440
##	Armenia	12.050
##	Maternal.mortality.rate..deaths.100.000.live.births.	
##	Afghanistan	289.414
##	Albania	9.529
##	Algeria	61.177
##	Angola	183.254
##	Argentina	49.232
##	Armenia	25.185
##	Child.mortality.rate..deaths.1.000.live.births.	
##	Afghanistan	62.2764
##	Albania	8.8233
##	Algeria	23.4821
##	Angola	77.1645
##	Argentina	9.9450
##	Armenia	12.3806
##	Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	
##	Afghanistan	16.200
##	Albania	0.273
##	Algeria	1.028
##	Angola	101.626
##	Argentina	1.466
##	Armenia	0.528
##	Populations.using.unsafe.or.unimproved.water.sources....	
##	Afghanistan	82.506
##	Albania	17.556
##	Algeria	11.641
##	Angola	76.625
##	Argentina	7.812
##	Armenia	2.950
##	Populations.using.unsafe.or.unimproved.sanitation....	
##	Afghanistan	69.794
##	Albania	12.509
##	Algeria	7.580
##	Angola	54.542
##	Argentina	4.728
##	Armenia	21.700
##	Access.to.electricity....of.pop..	
##	Afghanistan	98.7132
##	Albania	100.0000
##	Algeria	100.0000
##	Angola	43.2593
##	Argentina	100.0000
##	Armenia	100.0000
##	Household.air.pollution.attributable.deaths..deaths.100.000.	
##	Afghanistan	155.837
##	Albania	31.459
##	Algeria	34.701
##	Angola	78.762
##	Argentina	24.101
##	Armenia	49.918

##	Traffic.deaths..deaths.100.000.	
## Afghanistan		32.777
## Albania		7.707
## Algeria		17.138
## Angola		28.970
## Argentina		13.124
## Armenia		7.313
##	Political.killings.and.torture..0.low.freedom..1.high.freedom.	
## Afghanistan		0.35
## Albania		0.95
## Algeria		0.60
## Angola		0.58
## Argentina		0.78
## Armenia		0.90
##	Access.to.quality.education..0.unequal..4.equal.	
## Afghanistan		0.819
## Albania		2.585
## Algeria		3.029
## Angola		0.794
## Argentina		2.762
## Armenia		3.100
##	Women.with.no.schooling Access.to.online.governance..0.low..1.high.	
## Afghanistan	0.7086	0.4643
## Albania	0.0075	0.8452
## Algeria	0.1892	0.1548
## Angola	0.1272	0.4524
## Argentina	0.0043	0.8571
## Armenia	0.0011	0.7500
##	Media.censorship..0.frequent..4.rare. Internet.users....of.pop..	
## Afghanistan	1.850	13.5000
## Albania	1.724	71.8470
## Algeria	0.931	49.0385
## Angola	2.180	14.3391
## Argentina	3.136	74.2949
## Armenia	3.096	64.7449
##	Mobile.telephone.subscriptions..subscriptions.100.people.	
## Afghanistan		59.1208
## Albania		94.1770
## Algeria		111.6648
## Angola		43.1305
## Argentina		132.0932
## Armenia		121.2590
##	Access.to.quality.healthcare..0.unequal..4.equal.	
## Afghanistan		2.022
## Albania		2.956
## Algeria		1.621
## Angola		0.958
## Argentina		2.744
## Armenia		3.292
##	Access.to.essential.services...0.none..100.full.coverage.	
## Afghanistan		46.067
## Albania		81.062
## Algeria		72.764
## Angola		44.479

## Argentina	74.685	
## Armenia	76.644	
##	Premature.deaths.from.non.communicable.diseases..deaths.100.000.	
## Afghanistan	944.478	
## Albania	276.036	
## Algeria	270.149	
## Angola	430.054	
## Argentina	327.380	
## Armenia	413.570	
##	Life.expectancy.at.60..years.	
## Afghanistan	15.2592	
## Albania	22.0736	
## Algeria	22.7445	
## Angola	16.8830	
## Argentina	21.3868	
## Armenia	19.8741	
##	Greenhouse.gas.emissions..total.CO2.equivalents.	Particulate.matter
## Afghanistan	34.0	56.668
## Albania	10.2	17.942
## Algeria	229.0	39.322
## Angola	101.0	32.532
## Argentina	348.0	13.261
## Armenia	11.2	32.354
##	Biome.protection	
## Afghanistan	0.1044	
## Albania	17.0000	
## Algeria	7.3446	
## Angola	5.7982	
## Argentina	7.0858	
## Armenia	16.9993	
##	Outdoor.air.pollution.attributable.deaths..deaths.100.000.	
## Afghanistan	45.7377	
## Albania	20.8374	
## Algeria	41.9762	
## Angola	29.7593	
## Argentina	27.3381	
## Armenia	50.0747	
##	Political.rights..0.no.rights..40.full.rights.	
## Afghanistan	13	
## Albania	27	
## Algeria	10	
## Angola	11	
## Argentina	35	
## Armenia	21	
##	Freedom.of.expression..0.no.freedom..1.full.freedom.	
## Afghanistan	0.517	
## Albania	0.694	
## Algeria	0.506	
## Angola	0.692	
## Argentina	0.936	
## Armenia	0.846	
##	Freedom.of.religion..0.no.freedom..4.full.freedom.	
## Afghanistan	1.930	
## Albania	3.637	

##	Algeria	1.675	
##	Angola	2.702	
##	Argentina	3.844	
##	Armenia	3.306	
##	Access.to.justice..0.non.existent..1.observed.		
##	Afghanistan	0.198	
##	Albania	0.936	
##	Algeria	0.500	
##	Angola	0.487	
##	Argentina	0.707	
##	Armenia	0.812	
##	Property.rights.for.women..0.no.right..5.full.rights.		
##	Afghanistan	2.411	
##	Albania	4.302	
##	Algeria	3.765	
##	Angola	3.523	
##	Argentina	4.600	
##	Armenia	4.718	
##	Vulnerable.employment....of.employees. Early.marriage....of.women.		
##	Afghanistan	79.726	17.0939
##	Albania	52.852	6.0183
##	Algeria	26.993	4.5245
##	Angola	65.995	17.3424
##	Argentina	21.805	14.3056
##	Armenia	38.668	4.1350
##	Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.		
##	Afghanistan		1.131
##	Albania		0.725
##	Algeria		2.271
##	Angola		0.669
##	Argentina		2.488
##	Armenia		1.899
##	Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.		
##	Afghanistan		2.268
##	Albania		2.568
##	Algeria		2.573
##	Angola		0.950
##	Argentina		2.795
##	Armenia		3.594
##	Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.		
##	Afghanistan		1.284
##	Albania		2.313
##	Algeria		1.879
##	Angola		2.522
##	Argentina		2.317
##	Armenia		1.737
##	Discrimination.and.violence.against.minorities..0.low..10.high.		
##	Afghanistan		7.5000
##	Albania		4.4000
##	Algeria		7.4724
##	Angola		7.8000
##	Argentina		4.1000
##	Armenia		5.0000
##	Quality.weighted.universities..points. Citable.documents		

```
## Afghanistan                2.4          0.0083
## Albania                     4.4          0.1717
## Algeria                    27.8          0.1884
## Angola                     1.8          0.0040
## Argentina                  60.0          0.3061
## Armenia                     5.2          0.4446
##      Women.with.advanced.education....
## Afghanistan                0.1307
## Albania                     0.5269
## Algeria                     0.5501
## Angola                     0.2654
## Argentina                   0.7308
## Armenia                     0.8350
```

How is Singapore fairing here? What about the US?

```
rownames(spi2020)
```

```
##      [1] "Afghanistan"      "Albania"
##      [3] "Algeria"          "Angola"
##      [5] "Argentina"        "Armenia"
##      [7] "Australia"        "Austria"
##      [9] "Azerbaijan"       "Bahrain"
##     [11] "Bangladesh"       "Barbados"
##     [13] "Belarus"          "Belgium"
##     [15] "Benin"            "Bhutan"
##     [17] "Bolivia"          "Bosnia and Herzegovina"
##     [19] "Botswana"         "Brazil"
##     [21] "Bulgaria"         "Burkina Faso"
##     [23] "Burundi"          "Cabo Verde"
##     [25] "Cambodia"         "Cameroon"
##     [27] "Canada"           "Central African Republic"
##     [29] "Colombia"         "Congo, Democratic Republic of"
##     [31] "Congo, Republic of" "Costa Rica"
##     [33] "Côte d'Ivoire"    "Croatia"
##     [35] "Cuba"             "Cyprus"
##     [37] "Czechia"          "Denmark"
##     [39] "Djibouti"         "Dominican Republic"
##     [41] "Ecuador"          "Egypt"
##     [43] "El Salvador"      "Equatorial Guinea"
##     [45] "Eritrea"          "Estonia"
##     [47] "Eswatini"         "Ethiopia"
##     [49] "Fiji"             "Finland"
##     [51] "France"           "Gabon"
##     [53] "Gambia, The"      "Georgia"
##     [55] "Germany"          "Ghana"
##     [57] "Greece"           "Guatemala"
##     [59] "Guinea"           "Guinea-Bissau"
##     [61] "Guyana"           "Haiti"
##     [63] "Honduras"         "Hungary"
##     [65] "Chad"             "Chile"
##     [67] "China"            "Iceland"
##     [69] "India"            "Indonesia"
```

## [71]	"Iran"	"Iraq"
## [73]	"Ireland"	"Israel"
## [75]	"Italy"	"Jamaica"
## [77]	"Japan"	"Jordan"
## [79]	"Kazakhstan"	"Kenya"
## [81]	"Korea, Democratic Republic of"	"Korea, Republic of"
## [83]	"Kuwait"	"Kyrgyzstan"
## [85]	"Laos"	"Latvia"
## [87]	"Lebanon"	"Lesotho"
## [89]	"Liberia"	"Lithuania"
## [91]	"Luxembourg"	"Madagascar"
## [93]	"Malawi"	"Malaysia"
## [95]	"Maldives"	"Mali"
## [97]	"Malta"	"Mauritania"
## [99]	"Mauritius"	"Mexico"
## [101]	"Moldova"	"Mongolia"
## [103]	"Montenegro"	"Morocco"
## [105]	"Mozambique"	"Myanmar"
## [107]	"Namibia"	"Nepal"
## [109]	"Netherlands"	"New Zealand"
## [111]	"Nicaragua"	"Niger"
## [113]	"Nigeria"	"Norway"
## [115]	"Oman"	"Pakistan"
## [117]	"Panama"	"Papua New Guinea"
## [119]	"Paraguay"	"Peru"
## [121]	"Philippines"	"Poland"
## [123]	"Portugal"	"Qatar"
## [125]	"Republic of North Macedonia"	"Romania"
## [127]	"Russia"	"Rwanda"
## [129]	"Saudi Arabia"	"Senegal"
## [131]	"Serbia"	"Sierra Leone"
## [133]	"Singapore"	"Slovakia"
## [135]	"Slovenia"	"Somalia"
## [137]	"South Africa"	"South Sudan"
## [139]	"Spain"	"Sri Lanka"
## [141]	"Sudan"	"Suriname"
## [143]	"Sweden"	"Switzerland"
## [145]	"Tajikistan"	"Tanzania"
## [147]	"Thailand"	"Timor-Leste"
## [149]	"Togo"	"Trinidad and Tobago"
## [151]	"Tunisia"	"Turkey"
## [153]	"Turkmenistan"	"Uganda"
## [155]	"Ukraine"	"United Arab Emirates"
## [157]	"United Kingdom"	"United States"
## [159]	"Uruguay"	"Uzbekistan"
## [161]	"Vietnam"	"Zambia"
## [163]	"Zimbabwe"	

```
spi2020["Singapore", ]
```

##	Basic.Human.Needs	Foundations.of.Wellbeing	Opportunity	
## Singapore	97.66	86.13	72.58	
##	Nutrition.and.Basic.Medical.Care	Water.and.Sanitation	Shelter	
## Singapore	98.03	98.96	97.08	

##	Personal.Safety	Access.to.Basic.Knowledge	
## Singapore	96.57	92.66	
##	Access.to.Information.and.Communications	Health.and.Wellness	
## Singapore	84.52	90.36	
##	Environmental.Quality	Personal.Rights	Personal.Freedom.and.Choice
## Singapore	76.98	70.78	88.32
##	Inclusiveness	Access.to.Advanced.Education	
## Singapore	56.09	75.13	
##	Deaths.from.infectious.diseases..deaths.100.000.		
## Singapore		43.9703	
##	Child.stunting....of.children.		
## Singapore	3.527		
##	Maternal.mortality.rate..deaths.100.000.live.births.		
## Singapore		5.868	
##	Child.mortality.rate..deaths.1.000.live.births.		
## Singapore		2.8087	
##	Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..		
## Singapore		0.483	
##	Populations.using.unsafe.or.unimproved.water.sources....		
## Singapore		1.729	
##	Populations.using.unsafe.or.unimproved.sanitation....		
## Singapore		1.299	
##	Access.to.electricity....of.pop..		
## Singapore	100		
##	Household.air.pollution.attributable.deaths..deaths.100.000.		
## Singapore		15.616	
##	Traffic.deaths..deaths.100.000.		
## Singapore	3.066		
##	Political.killings.and.torture..0.low.freedom..1.high.freedom.		
## Singapore		0.91	
##	Access.to.quality.education..0.unequal..4.equal.		
## Singapore		3.677	
##	Women.with.no.schooling	Access.to.online.governance..0.low..1.high.	
## Singapore	0.0469	0.9762	
##	Media.censorship..0.frequent..4.rare.	Internet.users....of.pop..	
## Singapore	1.086	88.1656	
##	Mobile.telephone.subscriptions..subscriptions.100.people.		
## Singapore		148.8216	
##	Access.to.quality.healthcare..0.unequal..4.equal.		
## Singapore		3.586	
##	Access.to.essential.services...0.none..100.full.coverage.		
## Singapore		92.776	
##	Premature.deaths.from.non.communicable.diseases..deaths.100.000.		
## Singapore		155.521	
##	Life.expectancy.at.60..years.		
## Singapore	26.7857		
##	Greenhouse.gas.emissions..total.CO2.equivalents.	Particulate.matter	
## Singapore	99.7	19.146	
##	Biome.protection		
## Singapore	4.9626		
##	Outdoor.air.pollution.attributable.deaths..deaths.100.000.		
## Singapore		19.2984	
##	Political.rights..0.no.rights..40.full.rights.		
## Singapore		19	

```

##          Freedom.of.expression..0.no.freedom..1.full.freedom.
## Singapore                                     0.435
##          Freedom.of.religion..0.no.freedom..4.full.freedom.
## Singapore                                     3.377
##          Access.to.justice..0.non.existent..1.observed.
## Singapore                                     0.88
##          Property.rights.for.women..0.no.right..5.full.rights.
## Singapore                                     4.216
##          Vulnerable.employment....of.employees. Early.marriage....of.women.
## Singapore                                     9.666                                     0.312
##          Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.
## Singapore                                     2.33
##          Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.
## Singapore                                     0.487
##          Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.
## Singapore                                     2.54
##          Discrimination.and.violence.against.minorities..0.low..10.high.
## Singapore                                     1.7
##          Quality.weighted.universities..points. Citable.documents
## Singapore                                     12.8                                     3.7718
##          Women.with.advanced.education....
## Singapore                                     0.7686

```

```
spi2020["United States", ]
```

```

##          Basic.Human.Needs Foundations.of.Wellbeing Opportunity
## United States          92.08          83.14          81.89
##          Nutrition.and.Basic.Medical.Care Water.and.Sanitation Shelter
## United States          97.61          98.97          97.93
##          Personal.Safety Access.to.Basic.Knowledge
## United States          73.82          92.42
##          Access.to.Information.and.Communications Health.and.Wellness
## United States          93.3          74.66
##          Environmental.Quality Personal.Rights Personal.Freedom.and.Choice
## United States          72.18          90.84          84.96
##          Inclusiveness Access.to.Advanced.Education
## United States          61.24          90.53
##          Deaths.from.infectious.diseases..deaths.100.000.
## United States          21.544
##          Child.stunting....of.children.
## United States          2.315
##          Maternal.mortality.rate..deaths.100.000.live.births.
## United States          29.338
##          Child.mortality.rate..deaths.1.000.live.births.
## United States          6.5328
##          Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..
## United States          0.282
##          Populations.using.unsafe.or.unimproved.water.sources....
## United States          0.317
##          Populations.using.unsafe.or.unimproved.sanitation....
## United States          2.912
##          Access.to.electricity....of.pop..
## United States          100
##          Household.air.pollution.attributable.deaths..deaths.100.000.

```

## United States		11.08
##	Traffic.deaths..deaths.100.000.	
## United States	12.199	
##	Political.killings.and.torture..0.low.freedom..1.high.freedom.	
## United States		0.91
##	Access.to.quality.education..0.unequal..4.equal.	
## United States		2.232
##	Women.with.no.schooling	
## United States	0.0036	
##	Access.to.online.governance..0.low..1.high.	
## United States		1
##	Media.censorship..0.frequent..4.rare. Internet.users....of.pop..	
## United States	3.204	87.2661
##	Mobile.telephone.subscriptions..subscriptions.100.people.	
## United States		129.014
##	Access.to.quality.healthcare..0.unequal..4.equal.	
## United States		2.038
##	Access.to.essential.services...0.none..100.full.coverage.	
## United States		88.025
##	Premature.deaths.from.non.communicable.diseases..deaths.100.000.	
## United States		282.187
##	Life.expectancy.at.60..years.	
## United States	23.2743	
##	Greenhouse.gas.emissions..total.CO2.equivalents.	
## United States		6510
##	Particulate.matter Biome.protection	
## United States	7.236	9.1447
##	Outdoor.air.pollution.attributable.deaths..deaths.100.000.	
## United States		15.0439
##	Political.rights..0.no.rights..40.full.rights.	
## United States		33
##	Freedom.of.expression..0.no.freedom..1.full.freedom.	
## United States		0.903
##	Freedom.of.religion..0.no.freedom..4.full.freedom.	
## United States		3.783
##	Access.to.justice..0.non.existent..1.observed.	
## United States		0.93
##	Property.rights.for.women..0.no.right..5.full.rights.	
## United States		4.614
##	Vulnerable.employment....of.employees.	
## United States		3.837
##	Early.marriage....of.women.	
## United States	3.4027	
##	Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	
## United States		2.195
##	Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	
## United States		2.748
##	Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	
## United States		2.43
##	Discrimination.and.violence.against.minorities..0.low..10.high.	
## United States		6.2
##	Quality.weighted.universities..points. Citable.documents	
## United States	1072.6	1.8456
##	Women.with.advanced.education....	


```
## United States 0.9023
```

```
summary(spi2020$Access.to.Basic.Knowledge)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 24.88  66.64   81.13   77.13  92.56   99.01
```

```
# Country with highest value for access to basic knowledge
spi2020[which.max(spi2020$Access.to.Basic.Knowledge), ]
```

```
##      Basic.Human.Needs Foundations.of.Wellbeing Opportunity
## Czechia      95.45      86.79      77.83
##      Nutrition.and.Basic.Medical.Care Water.and.Sanitation Shelter
## Czechia      98.28      98.85      95.88
##      Personal.Safety Access.to.Basic.Knowledge
## Czechia      88.8      99.01
##      Access.to.Information.and.Communications Health.and.Wellness
## Czechia      83.55      80.11
##      Environmental.Quality Personal.Rights Personal.Freedom.and.Choice
## Czechia      84.51      92.34      81.22
##      Inclusiveness Access.to.Advanced.Education
## Czechia      60.51      77.26
##      Deaths.from.infectious.diseases..deaths.100.000.
## Czechia      18.3645
##      Child.stunting....of.children.
## Czechia      3.785
##      Maternal.mortality.rate..deaths.100.000.live.births.
## Czechia      5.656
##      Child.mortality.rate..deaths.1.000.live.births.
## Czechia      3.373
##      Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..
## Czechia      0.388
##      Populations.using.unsafe.or.unimproved.water.sources....
## Czechia      2.714
##      Populations.using.unsafe.or.unimproved.sanitation....
## Czechia      0.665
##      Access.to.electricity....of.pop..
## Czechia      100
##      Household.air.pollution.attributable.deaths..deaths.100.000.
## Czechia      22.009
##      Traffic.deaths..deaths.100.000.
## Czechia      6.279
##      Political.killings.and.torture..0.low.freedom..1.high.freedom.
## Czechia      0.95
##      Access.to.quality.education..0.unequal..4.equal.
## Czechia      3.784
##      Women.with.no.schooling Access.to.online.governance..0.low..1.high.
## Czechia      0.0011      0.7262
##      Media.censorship..0.frequent..4.rare. Internet.users....of.pop..
## Czechia      3.022      80.6882
##      Mobile.telephone.subscriptions..subscriptions.100.people.
## Czechia      119.1135
##      Access.to.quality.healthcare..0.unequal..4.equal.
```

```

## Czechia 3.857
## Access.to.essential.services...0.none..100.full.coverage.
## Czechia 89.075
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.
## Czechia 284.243
## Life.expectancy.at.60..years.
## Czechia 22.1233
## Greenhouse.gas.emissions..total.CO2.equivalents. Particulate.matter
## Czechia 130 15.644
## Biome.protection
## Czechia 17
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.
## Czechia 27.4748
## Political.rights..0.no.rights..40.full.rights.
## Czechia 36
## Freedom.of.expression..0.no.freedom..1.full.freedom.
## Czechia 0.922
## Freedom.of.religion..0.no.freedom..4.full.freedom.
## Czechia 3.474
## Access.to.justice..0.non.existent..1.observed.
## Czechia 0.945
## Property.rights.for.women..0.no.right..5.full.rights.
## Czechia 4.852
## Vulnerable.employment....of.employees. Early.marriage....of.women.
## Czechia 13.681 0.7661
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.
## Czechia 2.555
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.
## Czechia 3.117
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.
## Czechia 2.346
## Discrimination.and.violence.against.minorities..0.low..10.high.
## Czechia 4.9
## Quality.weighted.universities..points. Citable.documents
## Czechia 51.4 2.2883
## Women.with.advanced.education....
## Czechia 0.9246

```

We can also compute average over all countries for the different attributes.

```
names(spi2020)
```

```

## [1] "Basic.Human.Needs"
## [2] "Foundations.of.Wellbeing"
## [3] "Opportunity"
## [4] "Nutrition.and.Basic.Medical.Care"
## [5] "Water.and.Sanitation"
## [6] "Shelter"
## [7] "Personal.Safety"
## [8] "Access.to.Basic.Knowledge"
## [9] "Access.to.Information.and.Communications"
## [10] "Health.and.Wellness"
## [11] "Environmental.Quality"

```

```
## [12] "Personal.Rights"
## [13] "Personal.Freedom.and.Choice"
## [14] "Inclusiveness"
## [15] "Access.to.Advanced.Education"
## [16] "Deaths.from.infectious.diseases..deaths.100.000."
## [17] "Child.stunting...of.children."
## [18] "Maternal.mortality.rate..deaths.100.000.live.births."
## [19] "Child.mortality.rate..deaths.1.000.live.births."
## [20] "Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop.."
## [21] "Populations.using.unsafe.or.unimproved.water.sources...."
## [22] "Populations.using.unsafe.or.unimproved.sanitation...."
## [23] "Access.to.electricity...of.pop.."
## [24] "Household.air.pollution.attributable.deaths..deaths.100.000."
## [25] "Traffic.deaths..deaths.100.000."
## [26] "Political.killings.and.torture..0.low.freedom..1.high.freedom."
## [27] "Access.to.quality.education..0.unequal..4.equal."
## [28] "Women.with.no.schooling"
## [29] "Access.to.online.governance..0.low..1.high."
## [30] "Media.censorship..0.frequent..4.rare."
## [31] "Internet.users...of.pop.."
## [32] "Mobile.telephone.subscriptions..subscriptions.100.people."
## [33] "Access.to.quality.healthcare..0.unequal..4.equal."
## [34] "Access.to.essential.services...0.none..100.full.coverage."
## [35] "Premature.deaths.from.non.communicable.diseases..deaths.100.000."
## [36] "Life.expectancy.at.60..years."
## [37] "Greenhouse.gas.emissions..total.CO2.equivalents."
## [38] "Particulate.matter"
## [39] "Biome.protection"
## [40] "Outdoor.air.pollution.attributable.deaths..deaths.100.000."
## [41] "Political.rights..0.no.rights..40.full.rights."
## [42] "Freedom.of.expression..0.no.freedom..1.full.freedom."
## [43] "Freedom.of.religion..0.no.freedom..4.full.freedom."
## [44] "Access.to.justice..0.non.existent..1.observed."
## [45] "Property.rights.for.women..0.no.right..5.full.rights."
## [46] "Vulnerable.employment...of.employees."
## [47] "Early.marriage...of.women."
## [48] "Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power."
## [49] "Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power."
## [50] "Equality.of.political.power.by.gender..0.unequal.power..4.equal.power."
## [51] "Discrimination.and.violence.against.minorities..0.low..10.high."
## [52] "Quality.weighted.universities..points."
## [53] "Citable.documents"
## [54] "Women.with.advanced.education...."
```

```
Stats <- cbind(apply(spi2020, 2, mean), apply(spi2020, 2, "median"), apply(spi2020, 2, "sd"))
colnames(Stats) <- c("mean", "median", "std.dev")
#Stats
head(Stats)
```

```
##               mean median  std.dev
## Basic.Human.Needs      76.00644  82.69 18.09972
## Foundations.of.Wellbeing 70.32638  71.29 14.30272
## Opportunity           58.26454  56.63 16.01980
## Nutrition.and.Basic.Medical.Care 84.30129  91.16 14.81386
```

```
## Water.and.Sanitation      74.89374  85.77 25.30609
## Shelter                   76.99515  88.41 22.75562
```

Let us do some basic principal component analysis for social progress.

```
# scale = F: not standardising the data
pr.out.ns = prcomp(spi2020, scale = F)
pr.out.ns
```

```
## Standard deviations (1, ..., p=54):
## [1] 1.176261e+03 2.637660e+02 1.352146e+02 7.055259e+01 6.134022e+01
## [6] 3.864635e+01 2.927161e+01 2.321920e+01 1.833060e+01 1.398163e+01
## [11] 1.247542e+01 1.215534e+01 1.134848e+01 1.036263e+01 1.027223e+01
## [16] 9.387232e+00 8.415249e+00 8.145575e+00 7.310270e+00 7.206854e+00
## [21] 6.492088e+00 5.926442e+00 5.651720e+00 5.214274e+00 5.078764e+00
## [26] 4.422520e+00 3.725961e+00 3.231300e+00 2.868780e+00 2.326951e+00
## [31] 2.056754e+00 1.682711e+00 1.341662e+00 6.986071e-01 6.714108e-01
## [36] 5.140150e-01 4.604594e-01 4.260253e-01 3.827176e-01 3.648334e-01
## [41] 3.541551e-01 2.606318e-01 1.638886e-01 9.433518e-02 8.352819e-02
## [46] 7.192134e-02 5.904375e-02 4.701062e-02 2.542876e-03 2.499256e-03
## [51] 2.361820e-03 2.124904e-03 1.852494e-03 4.989810e-04
##
## Rotation (n x k) = (54 x 54):
##
## Basic.Human.Needs      1.747063e-03
## Foundations.of.Wellbeing 4.658978e-04
## Opportunity           8.669503e-04
## Nutrition.and.Basic.Medical.Care 1.770978e-03
## Water.and.Sanitation   2.734690e-03
## Shelter                2.214817e-03
## Personal.Safety        2.661273e-04
## Access.to.Basic.Knowledge 1.498006e-03
## Access.to.Information.and.Communications 2.170040e-03
## Health.and.Wellness    1.136088e-03
## Environmental.Quality  -2.939970e-03
## Personal.Rights        -1.627246e-03
## Personal.Freedom.and.Choice 1.832221e-03
## Inclusiveness          -6.659868e-04
## Access.to.Advanced.Education 3.928029e-03
## Deaths.from.infectious.diseases..deaths.100.000. -2.012766e-02
## Child.stunting....of.children. -1.267630e-03
## Maternal.mortality.rate..deaths.100.000.live.births. -1.409314e-02
## Child.mortality.rate..deaths.1.000.live.births. -3.288142e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop.. -3.571672e-03
## Populations.using.unsafe.or.unimproved.water.sources.... -3.154120e-03
## Populations.using.unsafe.or.unimproved.sanitation.... -3.256401e-03
## Access.to.electricity....of.pop.. 2.955186e-03
## Household.air.pollution.attributable.deaths..deaths.100.000. -3.362983e-03
## Traffic.deaths..deaths.100.000. -5.271145e-04
## Political.killings.and.torture..0.low.freedom..1.high.freedom. -1.225284e-05
## Access.to.quality.education..0.unequal..4.equal. -2.888916e-05
## Women.with.no.schooling -1.466478e-05
## Access.to.online.governance..0.low..1.high. 5.447513e-05
```

## Media.censorship..0.frequent..4.rare.	-1.172818e-04
## Internet.users....of.pop..	2.476401e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	2.327204e-03
## Access.to.quality.healthcare..0.unequal..4.equal.	-3.233504e-05
## Access.to.essential.services...0.none..100.full.coverage.	2.030326e-03
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-1.104244e-02
## Life.expectancy.at.60..years.	2.688352e-04
## Greenhouse.gas.emissions..total.CO2.equivalents.	9.972187e-01
## Particulate.matter	1.251411e-03
## Biome.protection	-7.020862e-04
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	1.242532e-03
## Political.rights..0.no.rights..40.full.rights.	-7.575374e-04
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-2.982984e-05
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-1.752825e-04
## Access.to.justice..0.non.existent..1.observed.	-6.321639e-07
## Property.rights.for.women..0.no.right..5.full.rights.	3.409267e-05
## Vulnerable.employment....of.employees.	-1.776938e-03
## Early.marriage....of.women.	-9.263074e-04
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-3.577828e-05
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-6.137255e-05
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-2.192478e-05
## Discrimination.and.violence.against.minorities..0.low..10.high.	1.717868e-04
## Quality.weighted.universities..points.	6.841654e-02
## Citable.documents	3.322410e-05
## Women.with.advanced.education....	3.233593e-05
##	PC2
## Basic.Human.Needs	0.0651617714
## Foundations.of.Wellbeing	0.0470772570
## Opportunity	0.0445006147
## Nutrition.and.Basic.Medical.Care	0.0527691827
## Water.and.Sanitation	0.0893139025
## Shelter	0.0798005034
## Personal.Safety	0.0387623203
## Access.to.Basic.Knowledge	0.0550217158
## Access.to.Information.and.Communications	0.0634045107
## Health.and.Wellness	0.0551183316
## Environmental.Quality	0.0147637053
## Personal.Rights	0.0389200643
## Personal.Freedom.and.Choice	0.0506569450
## Inclusiveness	0.0291160095
## Access.to.Advanced.Education	0.0593151972
## Deaths.from.infectious.diseases..deaths.100.000.	-0.6591870982
## Child.stunting....of.children.	-0.0422143610
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.4401628492
## Child.mortality.rate..deaths.1.000.live.births.	-0.1013615801
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.1353689553
## Populations.using.unsafe.or.unimproved.water.sources....	-0.0958181043
## Populations.using.unsafe.or.unimproved.sanitation....	-0.1006644139
## Access.to.electricity....of.pop..	0.0822178612
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.1501265929
## Traffic.deaths..deaths.100.000.	-0.0325528033
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0005291892
## Access.to.quality.education..0.unequal..4.equal.	0.0025827821
## Women.with.no.schooling	-0.0004129367

## Access.to.online.governance..0.low..1.high.	0.0006850907
## Media.censorship..0.frequent..4.rare.	0.0012994287
## Internet.users....of.pop..	0.0937209453
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0798744475
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0028698558
## Access.to.essential.services...0.none..100.full.coverage.	0.0577740593
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.4596797322
## Life.expectancy.at.60..years.	0.0107798353
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0335562395
## Particulate.matter	-0.0298930697
## Biome.protection	0.0032966237
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.0089962161
## Political.rights..0.no.rights..40.full.rights.	0.0244033199
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0003088287
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0004849529
## Access.to.justice..0.non.existent..1.observed.	0.0005231920
## Property.rights.for.women..0.no.right..5.full.rights.	0.0021196714
## Vulnerable.employment....of.employees.	-0.0871675855
## Early.marriage....of.women.	-0.0247648144
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0009577966
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0011411957
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0008641730
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0026366820
## Quality.weighted.universities..points.	0.0704969962
## Citable.documents	0.0025326659
## Women.with.advanced.education....	0.0008077171
##	PC3
## Basic.Human.Needs	1.606643e-02
## Foundations.of.Wellbeing	-1.095259e-02
## Opportunity	-1.158188e-02
## Nutrition.and.Basic.Medical.Care	1.777206e-02
## Water.and.Sanitation	3.341928e-02
## Shelter	1.910714e-02
## Personal.Safety	-6.028062e-03
## Access.to.Basic.Knowledge	2.248048e-02
## Access.to.Information.and.Communications	-5.399534e-03
## Health.and.Wellness	-3.172250e-02
## Environmental.Quality	-2.916799e-02
## Personal.Rights	-2.809049e-02
## Personal.Freedom.and.Choice	4.382408e-03
## Inclusiveness	-2.673534e-02
## Access.to.Advanced.Education	4.117534e-03
## Deaths.from.infectious.diseases..deaths.100.000.	-4.833112e-01
## Child.stunting....of.children.	-4.936047e-03
## Maternal.mortality.rate..deaths.100.000.live.births.	-1.138214e-01
## Child.mortality.rate..deaths.1.000.live.births.	-4.934790e-02
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-9.128108e-02
## Populations.using.unsafe.or.unimproved.water.sources....	-3.170445e-02
## Populations.using.unsafe.or.unimproved.sanitation....	-1.303520e-02
## Access.to.electricity....of.pop..	6.367495e-02
## Household.air.pollution.attributable.deaths..deaths.100.000.	4.731635e-02
## Traffic.deaths..deaths.100.000.	1.963204e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-8.966134e-05
## Access.to.quality.education..0.unequal..4.equal.	-5.146104e-04

## Women.with.no.schooling	-2.057927e-04
## Access.to.online.governance..0.low..1.high.	-5.384906e-05
## Media.censorship..0.frequent..4.rare.	-1.836772e-03
## Internet.users....of.pop..	4.328075e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	1.891921e-02
## Access.to.quality.healthcare..0.unequal..4.equal.	-2.808773e-04
## Access.to.essential.services...0.none..100.full.coverage.	-1.241868e-03
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	8.478190e-01
## Life.expectancy.at.60..years.	-6.615621e-03
## Greenhouse.gas.emissions..total.CO2.equivalents.	1.620660e-03
## Particulate.matter	-1.112221e-02
## Biome.protection	-1.428241e-02
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	5.975135e-02
## Political.rights..0.no.rights..40.full.rights.	-1.392479e-02
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-4.258394e-04
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-1.458301e-03
## Access.to.justice..0.non.existent..1.observed.	-2.920850e-04
## Property.rights.for.women..0.no.right..5.full.rights.	-1.699158e-04
## Vulnerable.employment....of.employees.	-2.231512e-02
## Early.marriage....of.women.	-1.489403e-02
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-1.338326e-03
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-5.822548e-04
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-9.887844e-04
## Discrimination.and.violence.against.minorities..0.low..10.high.	9.600631e-04
## Quality.weighted.universities..points.	-6.975819e-02
## Citable.documents	-1.748265e-03
## Women.with.advanced.education....	3.255156e-04
##	PC4
## Basic.Human.Needs	-0.0143743818
## Foundations.of.Wellbeing	-0.0289705699
## Opportunity	-0.0574566702
## Nutrition.and.Basic.Medical.Care	-0.0049984045
## Water.and.Sanitation	-0.0186283022
## Shelter	-0.0137592727
## Personal.Safety	-0.0201261518
## Access.to.Basic.Knowledge	-0.0225081670
## Access.to.Information.and.Communications	-0.0425519505
## Health.and.Wellness	-0.0131223894
## Environmental.Quality	-0.0377092999
## Personal.Rights	-0.0780031741
## Personal.Freedom.and.Choice	-0.0358260936
## Inclusiveness	-0.0575431483
## Access.to.Advanced.Education	-0.0584497368
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0530743063
## Child.stunting....of.children.	0.0182523115
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0617562749
## Child.mortality.rate..deaths.1.000.live.births.	0.0114709033
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0106347543
## Populations.using.unsafe.or.unimproved.water.sources....	0.0353467015
## Populations.using.unsafe.or.unimproved.sanitation....	0.0322950403
## Access.to.electricity....of.pop..	-0.0035231780
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.0233219387
## Traffic.deaths..deaths.100.000.	0.0038434066
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0005682664

## Access.to.quality.education..0.unequal..4.equal.	-0.0008909022
## Women.with.no.schooling	0.0001061246
## Access.to.online.governance..0.low..1.high.	-0.0005286927
## Media.censorship..0.frequent..4.rare.	-0.0036253392
## Internet.users....of.pop..	-0.0484642216
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0022338839
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0014231902
## Access.to.essential.services...0.none..100.full.coverage.	-0.0235574762
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.1245778522
## Life.expectancy.at.60..years.	-0.0024965153
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.0636804013
## Particulate.matter	0.0687739920
## Biome.protection	-0.0109385333
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.0447868776
## Political.rights..0.no.rights..40.full.rights.	-0.0485882656
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0009556092
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.0033395753
## Access.to.justice..0.non.existent..1.observed.	-0.0006904515
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0018184541
## Vulnerable.employment....of.employees.	0.0490360693
## Early.marriage....of.women.	0.0082429223
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0020098278
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0031758727
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0016982887
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0024668248
## Quality.weighted.universities..points.	-0.9655905997
## Citable.documents	-0.0028170515
## Women.with.advanced.education....	-0.0004855495
##	PC5
## Basic.Human.Needs	2.538574e-02
## Foundations.of.Wellbeing	3.907392e-02
## Opportunity	3.548544e-02
## Nutrition.and.Basic.Medical.Care	3.555334e-02
## Water.and.Sanitation	2.745026e-02
## Shelter	2.424879e-02
## Personal.Safety	1.431728e-02
## Access.to.Basic.Knowledge	8.608817e-02
## Access.to.Information.and.Communications	4.729371e-02
## Health.and.Wellness	6.752879e-03
## Environmental.Quality	1.613358e-02
## Personal.Rights	1.730700e-02
## Personal.Freedom.and.Choice	5.058886e-02
## Inclusiveness	2.417108e-02
## Access.to.Advanced.Education	4.987491e-02
## Deaths.from.infectious.diseases..deaths.100.000.	5.196079e-01
## Child.stunting....of.children.	-2.799162e-02
## Maternal.mortality.rate..deaths.100.000.live.births.	-8.018167e-01
## Child.mortality.rate..deaths.1.000.live.births.	-3.691663e-02
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	8.693017e-06
## Populations.using.unsafe.or.unimproved.water.sources....	-5.849889e-02
## Populations.using.unsafe.or.unimproved.sanitation....	-2.945826e-02
## Access.to.electricity....of.pop..	1.496976e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	-4.342073e-02
## Traffic.deaths..deaths.100.000.	3.118211e-04

## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-2.249847e-05
## Access.to.quality.education..0.unequal..4.equal.	3.306255e-03
## Women.with.no.schooling	-7.939866e-04
## Access.to.online.governance..0.low..1.high.	9.374022e-04
## Media.censorship..0.frequent..4.rare.	-1.606785e-03
## Internet.users....of.pop..	6.428061e-02
## Mobile.telephone.subscriptions..subscriptions.100.people.	9.624628e-02
## Access.to.quality.healthcare..0.unequal..4.equal.	2.747480e-03
## Access.to.essential.services...0.none..100.full.coverage.	2.525234e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	1.739862e-01
## Life.expectancy.at.60..years.	-4.512730e-03
## Greenhouse.gas.emissions..total.CO2.equivalents.	1.484799e-03
## Particulate.matter	-4.132576e-02
## Biome.protection	1.512942e-02
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	2.417783e-02
## Political.rights..0.no.rights..40.full.rights.	4.860330e-03
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-2.829565e-04
## Freedom.of.religion..0.no.freedom..4.full.freedom.	1.954914e-03
## Access.to.justice..0.non.existent..1.observed.	5.847079e-04
## Property.rights.for.women..0.no.right..5.full.rights.	-4.724395e-05
## Vulnerable.employment....of.employees.	-9.079400e-02
## Early.marriage....of.women.	-1.814656e-02
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	1.365581e-03
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	1.620003e-04
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	4.592696e-04
## Discrimination.and.violence.against.minorities..0.low..10.high.	-7.335832e-03
## Quality.weighted.universities..points.	-3.343540e-02
## Citable.documents	1.433918e-03
## Women.with.advanced.education....	1.069901e-03
##	PC6
## Basic.Human.Needs	-0.0872921051
## Foundations.of.Wellbeing	-0.1368080794
## Opportunity	-0.2074679646
## Nutrition.and.Basic.Medical.Care	-0.0389083931
## Water.and.Sanitation	-0.0942621922
## Shelter	-0.0988349748
## Personal.Safety	-0.1171898446
## Access.to.Basic.Knowledge	-0.1194107382
## Access.to.Information.and.Communications	-0.2235280626
## Health.and.Wellness	-0.0698616103
## Environmental.Quality	-0.1344414483
## Personal.Rights	-0.3234456232
## Personal.Freedom.and.Choice	-0.1488719603
## Inclusiveness	-0.2338281982
## Access.to.Advanced.Education	-0.1237032631
## Deaths.from.infectious.diseases..deaths.100.000.	-0.1149226585
## Child.stunting....of.children.	0.0967284960
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.3237987022
## Child.mortality.rate..deaths.1.000.live.births.	0.0941671114
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.0490413455
## Populations.using.unsafe.or.unimproved.water.sources....	0.1165204573
## Populations.using.unsafe.or.unimproved.sanitation....	0.1568396817
## Access.to.electricity....of.pop..	-0.1017598040
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.1511235916

## Traffic.deaths..deaths.100.000.	0.0166664373
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0035874002
## Access.to.quality.education..0.unequal..4.equal.	-0.0090184560
## Women.with.no.schooling	0.0007990003
## Access.to.online.governance..0.low..1.high.	-0.0017170015
## Media.censorship..0.frequent..4.rare.	-0.0148420044
## Internet.users....of.pop..	-0.2094662455
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.3969060909
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0091229102
## Access.to.essential.services...0.none..100.full.coverage.	-0.0905573362
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0856729797
## Life.expectancy.at.60..years.	-0.0070527950
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0166375679
## Particulate.matter	0.2264568317
## Biome.protection	-0.0267369168
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.1005346730
## Political.rights..0.no.rights..40.full.rights.	-0.1816429754
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0039466682
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.0103790152
## Access.to.justice..0.non.existent..1.observed.	-0.0033182860
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0110826032
## Vulnerable.employment....of.employees.	0.2099628860
## Early.marriage....of.women.	0.0520088950
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0098644145
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0109076910
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0073055450
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0264415162
## Quality.weighted.universities..points.	0.2038304670
## Citable.documents	-0.0105665927
## Women.with.advanced.education....	-0.0015794972
##	PC7
## Basic.Human.Needs	0.0185577570
## Foundations.of.Wellbeing	-0.0672168252
## Opportunity	-0.1282665415
## Nutrition.and.Basic.Medical.Care	0.0169901110
## Water.and.Sanitation	0.0549507899
## Shelter	0.0918560776
## Personal.Safety	-0.0895694484
## Access.to.Basic.Knowledge	-0.0331362424
## Access.to.Information.and.Communications	0.0519430538
## Health.and.Wellness	-0.0147898300
## Environmental.Quality	-0.2728882428
## Personal.Rights	-0.2465830137
## Personal.Freedom.and.Choice	-0.0185059560
## Inclusiveness	-0.2318894841
## Access.to.Advanced.Education	-0.0161118686
## Deaths.from.infectious.diseases..deaths.100.000.	0.0634947536
## Child.stunting....of.children.	-0.0093142234
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0959923140
## Child.mortality.rate..deaths.1.000.live.births.	0.0335369048
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0742577235
## Populations.using.unsafe.or.unimproved.water.sources....	-0.0144175643
## Populations.using.unsafe.or.unimproved.sanitation....	-0.1163817929
## Access.to.electricity....of.pop..	0.1752598617

## Household.air.pollution.attributable.deaths..deaths.100.000.	0.0569180239
## Traffic.deaths..deaths.100.000.	0.1114407005
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0026191482
## Access.to.quality.education..0.unequal..4.equal.	-0.0007379974
## Women.with.no.schooling	0.0004643469
## Access.to.online.governance..0.low..1.high.	-0.0002078170
## Media.censorship..0.frequent..4.rare.	-0.0127505395
## Internet.users....of.pop..	0.1303024345
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.5969951183
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0006034978
## Access.to.essential.services...0.none..100.full.coverage.	-0.0231697644
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0432091973
## Life.expectancy.at.60..years.	-0.0044460107
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0087863030
## Particulate.matter	0.3507826160
## Biome.protection	-0.0334545615
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.3473478907
## Political.rights..0.no.rights..40.full.rights.	-0.1634449286
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0034148384
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.0105935431
## Access.to.justice..0.non.existent..1.observed.	-0.0017196732
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0048854520
## Vulnerable.employment....of.employees.	-0.1734746444
## Early.marriage....of.women.	0.0111383458
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0095294617
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0100602872
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0085954117
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0193024705
## Quality.weighted.universities..points.	0.0805734942
## Citable.documents	-0.0084930586
## Women.with.advanced.education....	-0.0003248420
##	PC8
## Basic.Human.Needs	-0.0694823595
## Foundations.of.Wellbeing	0.0088208273
## Opportunity	-0.0283011286
## Nutrition.and.Basic.Medical.Care	-0.0384623819
## Water.and.Sanitation	-0.1701161807
## Shelter	-0.1132508937
## Personal.Safety	0.0439535183
## Access.to.Basic.Knowledge	-0.0735940695
## Access.to.Information.and.Communications	0.0403804133
## Health.and.Wellness	-0.0648984822
## Environmental.Quality	0.1333148419
## Personal.Rights	0.1527461893
## Personal.Freedom.and.Choice	-0.1002677151
## Inclusiveness	0.0409306934
## Access.to.Advanced.Education	-0.2065510263
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0992664395
## Child.stunting....of.children.	0.0953175183
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.1253418539
## Child.mortality.rate..deaths.1.000.live.births.	0.1018628445
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.0000474894
## Populations.using.unsafe.or.unimproved.water.sources....	0.2447078539
## Populations.using.unsafe.or.unimproved.sanitation....	0.3093927781

## Access.to.electricity....of.pop..	-0.0784925581
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.0941673156
## Traffic.deaths..deaths.100.000.	-0.0598504204
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0017258904
## Access.to.quality.education..0.unequal..4.equal.	-0.0062483298
## Women.with.no.schooling	0.0011158103
## Access.to.online.governance..0.low..1.high.	-0.0001145531
## Media.censorship..0.frequent..4.rare.	0.0104763475
## Internet.users....of.pop..	-0.2899011713
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.6219994162
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0071940547
## Access.to.essential.services...0.none..100.full.coverage.	-0.0977176084
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0152288604
## Life.expectancy.at.60..years.	-0.0062075117
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0014818143
## Particulate.matter	-0.1294129139
## Biome.protection	0.0249617978
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.1924496868
## Political.rights..0.no.rights..40.full.rights.	0.0883606616
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0025133811
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0055511992
## Access.to.justice..0.non.existent..1.observed.	0.0004195987
## Property.rights.for.women..0.no.right..5.full.rights.	0.0061842160
## Vulnerable.employment....of.employees.	0.2737996502
## Early.marriage....of.women.	0.0466744326
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0005941993
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0034927803
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0028723874
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0021222085
## Quality.weighted.universities..points.	0.0505652630
## Citable.documents	-0.0116774233
## Women.with.advanced.education....	-0.0036522716
##	PC9
## Basic.Human.Needs	0.0014763283
## Foundations.of.Wellbeing	-0.0289015558
## Opportunity	0.1798198043
## Nutrition.and.Basic.Medical.Care	0.0036955200
## Water.and.Sanitation	-0.0936286235
## Shelter	-0.0903505689
## Personal.Safety	0.1862230256
## Access.to.Basic.Knowledge	-0.0840114330
## Access.to.Information.and.Communications	0.1704127150
## Health.and.Wellness	0.0358982064
## Environmental.Quality	-0.2378745487
## Personal.Rights	0.4290762128
## Personal.Freedom.and.Choice	0.0235616671
## Inclusiveness	0.1879592817
## Access.to.Advanced.Education	0.0786190480
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0762393616
## Child.stunting....of.children.	0.0334532615
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0790744899
## Child.mortality.rate..deaths.1.000.live.births.	0.0547762796
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.2936995477
## Populations.using.unsafe.or.unimproved.water.sources....	0.0492429185

## Populations.using.unsafe.or.unimproved.sanitation....	0.0520239386
## Access.to.electricity....of.pop..	-0.0642765847
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.3121211172
## Traffic.deaths..deaths.100.000.	-0.0491926450
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0036989708
## Access.to.quality.education..0.unequal..4.equal.	0.0077473468
## Women.with.no.schooling	0.0027475693
## Access.to.online.governance..0.low..1.high.	0.0017582363
## Media.censorship..0.frequent..4.rare.	0.0207610040
## Internet.users....of.pop..	0.1066269100
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0817992139
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0073307055
## Access.to.essential.services...0.none..100.full.coverage.	0.0408259469
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0048085734
## Life.expectancy.at.60..years.	-0.0026512788
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0002018594
## Particulate.matter	0.5079457524
## Biome.protection	0.0099588188
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.2061082229
## Political.rights..0.no.rights..40.full.rights.	0.2391937277
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0045222707
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0096274236
## Access.to.justice..0.non.existent..1.observed.	0.0054987561
## Property.rights.for.women..0.no.right..5.full.rights.	0.0178519922
## Vulnerable.employment....of.employees.	0.0500534907
## Early.marriage....of.women.	0.0432630531
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0096085017
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0135465801
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0064203231
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0068440252
## Quality.weighted.universities..points.	-0.0098303048
## Citable.documents	0.0093586516
## Women.with.advanced.education....	-0.0001208556
##	PC10
## Basic.Human.Needs	0.0148505479
## Foundations.of.Wellbeing	-0.0499246237
## Opportunity	0.0310911835
## Nutrition.and.Basic.Medical.Care	0.0019170872
## Water.and.Sanitation	0.0526059806
## Shelter	0.2382596810
## Personal.Safety	-0.2334665094
## Access.to.Basic.Knowledge	-0.1206632328
## Access.to.Information.and.Communications	0.0743164099
## Health.and.Wellness	-0.1049516697
## Environmental.Quality	-0.0484539928
## Personal.Rights	0.2886736308
## Personal.Freedom.and.Choice	-0.1851488341
## Inclusiveness	0.0816266691
## Access.to.Advanced.Education	-0.0609177569
## Deaths.from.infectious.diseases..deaths.100.000.	0.0790197124
## Child.stunting....of.children.	0.0194573137
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0202111496
## Child.mortality.rate..deaths.1.000.live.births.	0.2227475545
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.3506394066

## Populations.using.unsafe.or.unimproved.water.sources....	0.2190879982
## Populations.using.unsafe.or.unimproved.sanitation....	-0.1620423005
## Access.to.electricity....of.pop..	0.4136867346
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.3031789031
## Traffic.deaths..deaths.100.000.	0.0342217726
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0001610015
## Access.to.quality.education..0.unequal..4.equal.	-0.0167525374
## Women.with.no.schooling	-0.0007091260
## Access.to.online.governance..0.low..1.high.	0.0001952902
## Media.censorship..0.frequent..4.rare.	0.0151905295
## Internet.users....of.pop..	-0.1029661270
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.1550443919
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0135176781
## Access.to.essential.services...0.none..100.full.coverage.	-0.1629641943
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0162279664
## Life.expectancy.at.60..years.	-0.0037851542
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.0003565403
## Particulate.matter	0.0544063515
## Biome.protection	0.0460519699
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.1696027918
## Political.rights..0.no.rights..40.full.rights.	0.1717691117
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0042464991
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0108116917
## Access.to.justice..0.non.existent..1.observed.	0.0004262022
## Property.rights.for.women..0.no.right..5.full.rights.	0.0145335409
## Vulnerable.employment....of.employees.	0.2363960834
## Early.marriage....of.women.	0.1413488906
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0038725219
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0105881264
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0047731174
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0192527857
## Quality.weighted.universities..points.	0.0060331029
## Citable.documents	-0.0218288122
## Women.with.advanced.education....	-0.0012495583
##	PC11
## Basic.Human.Needs	-0.0344649828
## Foundations.of.Wellbeing	-0.0441109351
## Opportunity	0.0193849277
## Nutrition.and.Basic.Medical.Care	-0.0022030558
## Water.and.Sanitation	-0.2547743576
## Shelter	0.1268273040
## Personal.Safety	-0.0077836699
## Access.to.Basic.Knowledge	0.0055025015
## Access.to.Information.and.Communications	-0.0130406309
## Health.and.Wellness	-0.0193521740
## Environmental.Quality	-0.1495624537
## Personal.Rights	0.0578607030
## Personal.Freedom.and.Choice	0.1429905812
## Inclusiveness	0.0056159110
## Access.to.Advanced.Education	-0.1289390803
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0353065116
## Child.stunting....of.children.	0.0025527116
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0084628418
## Child.mortality.rate..deaths.1.000.live.births.	0.0555223071

## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.0896283885
## Populations.using.unsafe.or.unimproved.water.sources....	0.3109483043
## Populations.using.unsafe.or.unimproved.sanitation....	0.4590560823
## Access.to.electricity...of.pop..	-0.0621234221
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.4418014406
## Traffic.deaths..deaths.100.000.	-0.0448203700
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0012727993
## Access.to.quality.education..0.unequal..4.equal.	-0.0018396842
## Women.with.no.schooling	-0.0010524331
## Access.to.online.governance..0.low..1.high.	-0.0019688245
## Media.censorship..0.frequent..4.rare.	0.0092221712
## Internet.users....of.pop..	0.0184571439
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0812665746
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0036059488
## Access.to.essential.services...0.none..100.full.coverage.	-0.0176407657
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0227138582
## Life.expectancy.at.60..years.	0.0000486491
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.0007186914
## Particulate.matter	-0.0117419559
## Biome.protection	-0.1529504725
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.1032007883
## Political.rights..0.no.rights..40.full.rights.	-0.0006488718
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0018280173
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.0026263162
## Access.to.justice..0.non.existent..1.observed.	0.0008913317
## Property.rights.for.women..0.no.right..5.full.rights.	0.0038527241
## Vulnerable.employment....of.employees.	-0.5371719723
## Early.marriage....of.women.	-0.0167897547
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0010335034
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0014007187
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0016159331
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0129611978
## Quality.weighted.universities..points.	0.0002872864
## Citable.documents	-0.0042661896
## Women.with.advanced.education....	-0.0001541097
##	PC12
## Basic.Human.Needs	0.0668100164
## Foundations.of.Wellbeing	0.0014669149
## Opportunity	0.0756574824
## Nutrition.and.Basic.Medical.Care	0.0166297715
## Water.and.Sanitation	0.0403778891
## Shelter	0.0255776331
## Personal.Safety	0.1846617995
## Access.to.Basic.Knowledge	0.3272548420
## Access.to.Information.and.Communications	-0.2053501842
## Health.and.Wellness	0.0194167444
## Environmental.Quality	-0.1354232203
## Personal.Rights	-0.0119586140
## Personal.Freedom.and.Choice	0.1425008900
## Inclusiveness	0.2038298691
## Access.to.Advanced.Education	-0.0317995315
## Deaths.from.infectious.diseases..deaths.100.000.	0.0791784933
## Child.stunting...of.children.	0.0299742224
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0690470874

## Child.mortality.rate..deaths.1.000.live.births.	-0.4486602516
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.2379006619
## Populations.using.unsafe.or.unimproved.water.sources....	-0.1434694696
## Populations.using.unsafe.or.unimproved.sanitation....	0.1888950610
## Access.to.electricity...of.pop..	0.1016302522
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.0445127055
## Traffic.deaths..deaths.100.000.	-0.0927033923
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0004133649
## Access.to.quality.education..0.unequal..4.equal.	0.0123863773
## Women.with.no.schooling	-0.0035906796
## Access.to.online.governance..0.low..1.high.	-0.0022127616
## Media.censorship..0.frequent..4.rare.	-0.0032388463
## Internet.users....of.pop..	-0.4931624310
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0045025041
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0066651427
## Access.to.essential.services...0.none..100.full.coverage.	0.0458202185
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0272424130
## Life.expectancy.at.60..years.	-0.0130209045
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0020585259
## Particulate.matter	0.1132159130
## Biome.protection	0.0049887146
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.2875799980
## Political.rights..0.no.rights..40.full.rights.	0.0179286608
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0009899136
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0014952902
## Access.to.justice..0.non.existent..1.observed.	0.0015036405
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0072861718
## Vulnerable.employment....of.employees.	0.1302519333
## Early.marriage....of.women.	-0.1211520512
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0141140028
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0089670349
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0063752854
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0160291481
## Quality.weighted.universities..points.	0.0225900186
## Citable.documents	-0.0059534848
## Women.with.advanced.education....	0.0012660113
##	PC13
## Basic.Human.Needs	-0.0438617804
## Foundations.of.Wellbeing	0.0454093294
## Opportunity	0.0226585527
## Nutrition.and.Basic.Medical.Care	-0.0684305479
## Water.and.Sanitation	0.0719538728
## Shelter	-0.2229981453
## Personal.Safety	0.0440513605
## Access.to.Basic.Knowledge	0.0792681799
## Access.to.Information.and.Communications	0.1393809445
## Health.and.Wellness	-0.0100860124
## Environmental.Quality	-0.0269937355
## Personal.Rights	0.0865459599
## Personal.Freedom.and.Choice	0.1360544054
## Inclusiveness	-0.1009405744
## Access.to.Advanced.Education	-0.0309243109
## Deaths.from.infectious.diseases..deaths.100.000.	0.0451947926
## Child.stunting....of.children.	0.0466618372

## Maternal.mortality.rate..deaths.100.000.live.births.	0.0183155311
## Child.mortality.rate..deaths.1.000.live.births.	0.1480987441
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.7432608391
## Populations.using.unsafe.or.unimproved.water.sources....	0.1735942630
## Populations.using.unsafe.or.unimproved.sanitation....	0.1030380900
## Access.to.electricity...of.pop..	-0.2904030118
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.2467268704
## Traffic.deaths..deaths.100.000.	-0.0055109795
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0004882103
## Access.to.quality.education..0.unequal..4.equal.	0.0080228018
## Women.with.no.schooling	-0.0004587408
## Access.to.online.governance..0.low..1.high.	0.0004900586
## Media.censorship..0.frequent..4.rare.	0.0104068009
## Internet.users....of.pop..	0.1948021529
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0880776900
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0005566317
## Access.to.essential.services...0.none..100.full.coverage.	0.0110297806
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0296701862
## Life.expectancy.at.60..years.	-0.0077141124
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.0002284084
## Particulate.matter	0.0426954899
## Biome.protection	-0.0346565743
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.0042825691
## Political.rights..0.no.rights..40.full.rights.	0.0005957305
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0007630066
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0051400836
## Access.to.justice..0.non.existent..1.observed.	0.0017598243
## Property.rights.for.women..0.no.right..5.full.rights.	0.0026699918
## Vulnerable.employment....of.employees.	-0.0860977691
## Early.marriage....of.women.	-0.2182174367
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0087284279
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0022944789
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0062557210
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0132959049
## Quality.weighted.universities..points.	0.0034981737
## Citable.documents	0.0026158791
## Women.with.advanced.education....	0.0006586004
##	PC14
## Basic.Human.Needs	7.533845e-02
## Foundations.of.Wellbeing	7.378612e-02
## Opportunity	-3.740024e-02
## Nutrition.and.Basic.Medical.Care	3.292199e-02
## Water.and.Sanitation	-2.285735e-02
## Shelter	9.747714e-02
## Personal.Safety	1.936514e-01
## Access.to.Basic.Knowledge	7.957457e-02
## Access.to.Information.and.Communications	2.033946e-01
## Health.and.Wellness	2.107662e-03
## Environmental.Quality	1.010382e-02
## Personal.Rights	-5.598911e-02
## Personal.Freedom.and.Choice	-1.236887e-01
## Inclusiveness	-9.675751e-02
## Access.to.Advanced.Education	1.267639e-01
## Deaths.from.infectious.diseases..deaths.100.000.	1.699155e-02

## Child.stunting....of.children.	-9.487604e-02
## Maternal.mortality.rate..deaths.100.000.live.births.	3.630650e-02
## Child.mortality.rate..deaths.1.000.live.births.	2.614702e-01
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-3.784425e-02
## Populations.using.unsafe.or.unimproved.water.sources....	-4.136459e-01
## Populations.using.unsafe.or.unimproved.sanitation....	5.497873e-01
## Access.to.electricity....of.pop..	1.184743e-01
## Household.air.pollution.attributable.deaths..deaths.100.000.	-1.602938e-01
## Traffic.deaths..deaths.100.000.	-1.534702e-01
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	1.695345e-03
## Access.to.quality.education..0.unequal..4.equal.	1.060348e-02
## Women.with.no.schooling	9.175947e-04
## Access.to.online.governance..0.low..1.high.	3.172683e-03
## Media.censorship..0.frequent..4.rare.	-5.057510e-03
## Internet.users....of.pop..	2.834012e-01
## Mobile.telephone.subscriptions..subscriptions.100.people.	-2.983225e-02
## Access.to.quality.healthcare..0.unequal..4.equal.	5.701402e-03
## Access.to.essential.services...0.none..100.full.coverage.	2.162917e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	1.151269e-02
## Life.expectancy.at.60..years.	-1.676647e-02
## Greenhouse.gas.emissions..total.CO2.equivalents.	-3.879583e-04
## Particulate.matter	-5.427749e-03
## Biome.protection	5.300067e-02
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	9.643181e-02
## Political.rights..0.no.rights..40.full.rights.	-1.424096e-01
## Freedom.of.expression..0.no.freedom..1.full.freedom.	2.256024e-04
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-5.274520e-03
## Access.to.justice..0.non.existent..1.observed.	1.307434e-03
## Property.rights.for.women..0.no.right..5.full.rights.	3.881491e-04
## Vulnerable.employment....of.employees.	3.392083e-01
## Early.marriage....of.women.	1.396337e-02
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	1.416216e-05
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	3.017874e-03
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-2.870949e-03
## Discrimination.and.violence.against.minorities..0.low..10.high.	9.157502e-03
## Quality.weighted.universities..points.	-1.638710e-03
## Citable.documents	7.139304e-03
## Women.with.advanced.education....	2.714277e-03
##	PC15
## Basic.Human.Needs	-0.0600494057
## Foundations.of.Wellbeing	0.0837945970
## Opportunity	-0.0450163629
## Nutrition.and.Basic.Medical.Care	-0.0040573374
## Water.and.Sanitation	-0.1434107379
## Shelter	0.0312417520
## Personal.Safety	-0.1239262283
## Access.to.Basic.Knowledge	0.0280615646
## Access.to.Information.and.Communications	0.2379301360
## Health.and.Wellness	-0.0024971990
## Environmental.Quality	0.0717363993
## Personal.Rights	-0.0147023107
## Personal.Freedom.and.Choice	-0.0229622174
## Inclusiveness	-0.1259231227
## Access.to.Advanced.Education	-0.0164489300

## Deaths.from.infectious.diseases..deaths.100.000.	0.0323946068
## Child.stunting....of.children.	0.1893569075
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0098861160
## Child.mortality.rate..deaths.1.000.live.births.	-0.6532656128
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0023777532
## Populations.using.unsafe.or.unimproved.water.sources....	0.2651626479
## Populations.using.unsafe.or.unimproved.sanitation....	0.1991726198
## Access.to.electricity....of.pop..	0.2900438099
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.1142776662
## Traffic.deaths..deaths.100.000.	0.1456658283
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0014498950
## Access.to.quality.education..0.unequal..4.equal.	-0.0136414353
## Women.with.no.schooling	-0.0007722013
## Access.to.online.governance..0.low..1.high.	0.0049550415
## Media.censorship..0.frequent..4.rare.	0.0024461842
## Internet.users....of.pop..	0.3517933491
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0836614128
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0005697211
## Access.to.essential.services...0.none..100.full.coverage.	-0.0272304811
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0128688165
## Life.expectancy.at.60..years.	0.0018741761
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0005499982
## Particulate.matter	0.0340839608
## Biome.protection	0.0519547123
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.1354283562
## Political.rights..0.no.rights..40.full.rights.	-0.0351252251
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0010218286
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0090988318
## Access.to.justice..0.non.existent..1.observed.	-0.0014762675
## Property.rights.for.women..0.no.right..5.full.rights.	0.0004020889
## Vulnerable.employment....of.employees.	0.1384722076
## Early.marriage....of.women.	0.0614426167
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0050729960
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0114462652
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0036332110
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0156151546
## Quality.weighted.universities..points.	0.0044885731
## Citable.documents	-0.0074256408
## Women.with.advanced.education....	-0.0031554346
##	PC16
## Basic.Human.Needs	1.370888e-01
## Foundations.of.Wellbeing	-2.054661e-02
## Opportunity	-3.666276e-03
## Nutrition.and.Basic.Medical.Care	4.592967e-02
## Water.and.Sanitation	-9.330200e-02
## Shelter	3.805322e-02
## Personal.Safety	5.575754e-01
## Access.to.Basic.Knowledge	-7.672935e-02
## Access.to.Information.and.Communications	-9.553916e-02
## Health.and.Wellness	9.004547e-02
## Environmental.Quality	-6.722008e-05
## Personal.Rights	-2.708165e-01
## Personal.Freedom.and.Choice	9.316283e-02
## Inclusiveness	1.592357e-01

## Access.to.Advanced.Education	3.534965e-03
## Deaths.from.infectious.diseases..deaths.100.000.	2.331229e-02
## Child.stunting....of.children.	-4.162444e-02
## Maternal.mortality.rate..deaths.100.000.live.births.	-7.360968e-03
## Child.mortality.rate..deaths.1.000.live.births.	1.099046e-01
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	4.440903e-03
## Populations.using.unsafe.or.unimproved.water.sources....	4.810197e-01
## Populations.using.unsafe.or.unimproved.sanitation....	-2.070559e-01
## Access.to.electricity....of.pop..	2.379332e-01
## Household.air.pollution.attributable.deaths..deaths.100.000.	-1.629021e-02
## Traffic.deaths..deaths.100.000.	-2.727168e-01
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	6.984304e-04
## Access.to.quality.education..0.unequal..4.equal.	1.565163e-02
## Women.with.no.schooling	2.738598e-03
## Access.to.online.governance..0.low..1.high.	-1.606168e-03
## Media.censorship..0.frequent..4.rare.	-2.223258e-02
## Internet.users....of.pop..	1.556276e-01
## Mobile.telephone.subscriptions..subscriptions.100.people.	-1.265699e-02
## Access.to.quality.healthcare..0.unequal..4.equal.	1.279154e-02
## Access.to.essential.services...0.none..100.full.coverage.	9.927912e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	2.158792e-02
## Life.expectancy.at.60..years.	8.400791e-03
## Greenhouse.gas.emissions..total.CO2.equivalents.	-8.064576e-04
## Particulate.matter	-2.314259e-02
## Biome.protection	-2.044296e-02
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-2.240658e-02
## Political.rights..0.no.rights..40.full.rights.	-1.556103e-01
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-4.602025e-03
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-1.514351e-02
## Access.to.justice..0.non.existent..1.observed.	1.105721e-03
## Property.rights.for.women..0.no.right..5.full.rights.	-1.216748e-02
## Vulnerable.employment....of.employees.	1.642230e-01
## Early.marriage....of.women.	-1.286152e-01
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	6.311486e-03
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	2.648251e-03
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	2.813861e-03
## Discrimination.and.violence.against.minorities..0.low..10.high.	-3.730447e-02
## Quality.weighted.universities..points.	9.185864e-03
## Citable.documents	1.931061e-02
## Women.with.advanced.education....	4.363978e-04
##	PC17
## Basic.Human.Needs	-0.0606248811
## Foundations.of.Wellbeing	0.0434821148
## Opportunity	0.1351741801
## Nutrition.and.Basic.Medical.Care	0.0531163584
## Water.and.Sanitation	-0.0707381119
## Shelter	-0.0037225882
## Personal.Safety	-0.2214868492
## Access.to.Basic.Knowledge	0.1657319721
## Access.to.Information.and.Communications	-0.0532586564
## Health.and.Wellness	0.1145707796
## Environmental.Quality	-0.0532274762
## Personal.Rights	-0.2041920923
## Personal.Freedom.and.Choice	-0.0292560897

## Inclusiveness	0.5361548563
## Access.to.Advanced.Education	0.2378429127
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0406226891
## Child.stunting....of.children.	-0.2274795241
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0067845498
## Child.mortality.rate..deaths.1.000.live.births.	0.0872979288
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0618222598
## Populations.using.unsafe.or.unimproved.water.sources....	0.1752120864
## Populations.using.unsafe.or.unimproved.sanitation....	0.0937687907
## Access.to.electricity....of.pop..	-0.1763466785
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.0636464345
## Traffic.deaths..deaths.100.000.	0.4534852477
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0029883450
## Access.to.quality.education..0.unequal..4.equal.	0.0228159350
## Women.with.no.schooling	-0.0004154377
## Access.to.online.governance..0.low..1.high.	0.0008403990
## Media.censorship..0.frequent..4.rare.	-0.0048299811
## Internet.users....of.pop..	0.0823716102
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0612658094
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0146641955
## Access.to.essential.services...0.none..100.full.coverage.	0.0849392859
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0144335737
## Life.expectancy.at.60..years.	0.0222741779
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0007544961
## Particulate.matter	0.1126132058
## Biome.protection	-0.0469382004
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.0550881455
## Political.rights..0.no.rights..40.full.rights.	-0.2038811257
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0022327573
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.0033010378
## Access.to.justice..0.non.existent..1.observed.	-0.0035782288
## Property.rights.for.women..0.no.right..5.full.rights.	0.0022951689
## Vulnerable.employment....of.employees.	0.1781574931
## Early.marriage....of.women.	0.1588845192
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0197238810
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0199084428
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0199213714
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0639642801
## Quality.weighted.universities..points.	-0.0039208231
## Citable.documents	0.0146258580
## Women.with.advanced.education....	0.0031986354
##	PC18
## Basic.Human.Needs	3.875979e-02
## Foundations.of.Wellbeing	-7.041828e-02
## Opportunity	4.561635e-03
## Nutrition.and.Basic.Medical.Care	-3.394329e-02
## Water.and.Sanitation	4.935626e-02
## Shelter	7.930311e-02
## Personal.Safety	6.014042e-02
## Access.to.Basic.Knowledge	-3.537326e-01
## Access.to.Information.and.Communications	-4.096032e-02
## Health.and.Wellness	4.217703e-02
## Environmental.Quality	7.082163e-02
## Personal.Rights	-1.105159e-01

## Personal.Freedom.and.Choice	1.599854e-01
## Inclusiveness	3.522753e-01
## Access.to.Advanced.Education	-3.835334e-01
## Deaths.from.infectious.diseases..deaths.100.000.	1.824755e-02
## Child.stunting....of.children.	3.985453e-02
## Maternal.mortality.rate..deaths.100.000.live.births.	-3.323031e-02
## Child.mortality.rate..deaths.1.000.live.births.	1.066862e-01
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-1.126103e-01
## Populations.using.unsafe.or.unimproved.water.sources....	-2.700893e-01
## Populations.using.unsafe.or.unimproved.sanitation....	2.053185e-01
## Access.to.electricity....of.pop..	3.813603e-01
## Household.air.pollution.attributable.deaths..deaths.100.000.	3.361146e-01
## Traffic.deaths..deaths.100.000.	2.164228e-01
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	2.314549e-03
## Access.to.quality.education..0.unequal..4.equal.	1.105096e-03
## Women.with.no.schooling	5.130668e-03
## Access.to.online.governance..0.low..1.high.	-2.225583e-03
## Media.censorship..0.frequent..4.rare.	2.297002e-03
## Internet.users....of.pop..	-7.947907e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	-6.505044e-02
## Access.to.quality.healthcare..0.unequal..4.equal.	7.287498e-05
## Access.to.essential.services...0.none..100.full.coverage.	2.492759e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-3.222302e-02
## Life.expectancy.at.60..years.	2.211107e-02
## Greenhouse.gas.emissions..total.CO2.equivalents.	8.318796e-04
## Particulate.matter	-2.223226e-02
## Biome.protection	-1.003319e-02
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-1.263133e-01
## Political.rights..0.no.rights..40.full.rights.	-1.404783e-02
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-3.761367e-04
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-9.069079e-03
## Access.to.justice..0.non.existent..1.observed.	-3.499228e-04
## Property.rights.for.women..0.no.right..5.full.rights.	-9.388749e-03
## Vulnerable.employment....of.employees.	-2.416274e-01
## Early.marriage....of.women.	5.054112e-02
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	1.151909e-02
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	9.866485e-03
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-1.487212e-03
## Discrimination.and.violence.against.minorities..0.low..10.high.	-7.181718e-02
## Quality.weighted.universities..points.	4.387384e-03
## Citable.documents	1.278421e-02
## Women.with.advanced.education....	-8.001337e-03
##	PC19
## Basic.Human.Needs	-0.0778965881
## Foundations.of.Wellbeing	0.1082140841
## Opportunity	0.0840563841
## Nutrition.and.Basic.Medical.Care	-0.1424174492
## Water.and.Sanitation	-0.0742443534
## Shelter	0.0618379180
## Personal.Safety	-0.1565457734
## Access.to.Basic.Knowledge	0.3901133014
## Access.to.Information.and.Communications	0.1158300219
## Health.and.Wellness	-0.0363581990
## Environmental.Quality	-0.0367068106

## Personal.Rights	-0.0865826480
## Personal.Freedom.and.Choice	0.2237891710
## Inclusiveness	-0.0540769724
## Access.to.Advanced.Education	0.2530489279
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0527651904
## Child.stunting....of.children.	0.3346385108
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0179975129
## Child.mortality.rate..deaths.1.000.live.births.	0.3417635023
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.1942733046
## Populations.using.unsafe.or.unimproved.water.sources....	0.0798925725
## Populations.using.unsafe.or.unimproved.sanitation....	0.0250322915
## Access.to.electricity....of.pop..	0.3311105389
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.2336368916
## Traffic.deaths..deaths.100.000.	0.1359175684
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0037991676
## Access.to.quality.education..0.unequal..4.equal.	0.0019743015
## Women.with.no.schooling	-0.0033402516
## Access.to.online.governance..0.low..1.high.	0.0039852568
## Media.censorship..0.frequent..4.rare.	0.0017230390
## Internet.users....of.pop..	-0.1400141234
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0378079277
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0103216854
## Access.to.essential.services...0.none..100.full.coverage.	-0.0164487128
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0476993982
## Life.expectancy.at.60..years.	0.0044573504
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0005552923
## Particulate.matter	-0.1865471884
## Biome.protection	-0.0671581195
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.0531659264
## Political.rights..0.no.rights..40.full.rights.	0.0526846850
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0013923124
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.0037638235
## Access.to.justice..0.non.existent..1.observed.	-0.0018929685
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0054644613
## Vulnerable.employment....of.employees.	-0.0063050008
## Early.marriage....of.women.	-0.3141268157
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0112573652
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0125803881
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0064249239
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0264412168
## Quality.weighted.universities..points.	-0.0091684420
## Citable.documents	0.0180895123
## Women.with.advanced.education....	0.0036459014
##	PC20
## Basic.Human.Needs	0.0306846297
## Foundations.of.Wellbeing	-0.0756527957
## Opportunity	0.0019743091
## Nutrition.and.Basic.Medical.Care	-0.0227313423
## Water.and.Sanitation	0.0047116715
## Shelter	0.0160598238
## Personal.Safety	0.1248763468
## Access.to.Basic.Knowledge	-0.1091002567
## Access.to.Information.and.Communications	-0.0261087049
## Health.and.Wellness	-0.1726858390

## Environmental.Quality	0.0052909012
## Personal.Rights	0.0834457840
## Personal.Freedom.and.Choice	0.1698055565
## Inclusiveness	0.0570189379
## Access.to.Advanced.Education	-0.3020290105
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0331156444
## Child.stunting....of.children.	0.0482210150
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0151987369
## Child.mortality.rate..deaths.1.000.live.births.	-0.0589974001
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.1546489835
## Populations.using.unsafe.or.unimproved.water.sources....	-0.0386097504
## Populations.using.unsafe.or.unimproved.sanitation....	-0.0849919605
## Access.to.electricity....of.pop..	-0.2233389660
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.1417036513
## Traffic.deaths..deaths.100.000.	0.4065383068
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0073210541
## Access.to.quality.education..0.unequal..4.equal.	-0.0046246774
## Women.with.no.schooling	0.0004692273
## Access.to.online.governance..0.low..1.high.	-0.0003747691
## Media.censorship..0.frequent..4.rare.	-0.0053084278
## Internet.users....of.pop..	0.2224245621
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0031325408
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0061231059
## Access.to.essential.services...0.none..100.full.coverage.	-0.2503829131
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0156971866
## Life.expectancy.at.60..years.	-0.0504488389
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0000388538
## Particulate.matter	-0.2380424013
## Biome.protection	0.0812511254
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.3832053313
## Political.rights..0.no.rights..40.full.rights.	-0.0344390912
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0007526331
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0013642016
## Access.to.justice..0.non.existent..1.observed.	0.0042568490
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0010030177
## Vulnerable.employment....of.employees.	0.2542368942
## Early.marriage....of.women.	-0.3681808280
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0034898482
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0033680904
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0022828517
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0454117556
## Quality.weighted.universities..points.	0.0110788154
## Citable.documents	-0.0196561402
## Women.with.advanced.education....	-0.0044287821
##	PC21
## Basic.Human.Needs	-0.0196404082
## Foundations.of.Wellbeing	-0.1118048851
## Opportunity	0.1138015757
## Nutrition.and.Basic.Medical.Care	-0.0842759928
## Water.and.Sanitation	0.0259753241
## Shelter	0.0086376884
## Personal.Safety	-0.0288868775
## Access.to.Basic.Knowledge	-0.5454018807
## Access.to.Information.and.Communications	0.0756647854

## Health.and.Wellness	0.0710070457
## Environmental.Quality	-0.0485190823
## Personal.Rights	-0.1526495215
## Personal.Freedom.and.Choice	0.2795252100
## Inclusiveness	-0.0568826183
## Access.to.Advanced.Education	0.3850072475
## Deaths.from.infectious.diseases..deaths.100.000.	0.0290272949
## Child.stunting....of.children.	0.2367574648
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0062690970
## Child.mortality.rate..deaths.1.000.live.births.	-0.0735143832
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0722774747
## Populations.using.unsafe.or.unimproved.water.sources....	-0.0866790025
## Populations.using.unsafe.or.unimproved.sanitation....	0.0575122587
## Access.to.electricity....of.pop..	-0.0653061994
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.2921246714
## Traffic.deaths..deaths.100.000.	0.0758677078
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0044993600
## Access.to.quality.education..0.unequal..4.equal.	-0.0201111864
## Women.with.no.schooling	0.0037328010
## Access.to.online.governance..0.low..1.high.	0.0040262153
## Media.censorship..0.frequent..4.rare.	0.0036351733
## Internet.users....of.pop..	-0.1398251923
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0599760464
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0035251941
## Access.to.essential.services...0.none..100.full.coverage.	0.0914304414
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0470518851
## Life.expectancy.at.60..years.	0.0209988303
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0007466842
## Particulate.matter	0.1838494876
## Biome.protection	-0.0423195711
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.2101725847
## Political.rights..0.no.rights..40.full.rights.	0.1405535509
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0005391896
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.0189687769
## Access.to.justice..0.non.existent..1.observed.	-0.0004056445
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0199535999
## Vulnerable.employment....of.employees.	0.1530374893
## Early.marriage....of.women.	-0.2601439919
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0029915465
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0013811143
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0020455439
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0396329395
## Quality.weighted.universities..points.	-0.0140024782
## Citable.documents	0.0211565244
## Women.with.advanced.education....	-0.0008939302
##	PC22
## Basic.Human.Needs	-0.0304924948
## Foundations.of.Wellbeing	-0.0916691366
## Opportunity	0.0168802081
## Nutrition.and.Basic.Medical.Care	0.1949594165
## Water.and.Sanitation	-0.0482737743
## Shelter	0.0141652492
## Personal.Safety	-0.2825780849
## Access.to.Basic.Knowledge	-0.1466672802

## Access.to.Information.and.Communications	-0.0422270899
## Health.and.Wellness	0.0179142149
## Environmental.Quality	-0.1954875441
## Personal.Rights	0.0688482451
## Personal.Freedom.and.Choice	0.0334682802
## Inclusiveness	-0.0679361778
## Access.to.Advanced.Education	0.0331309357
## Deaths.from.infectious.diseases..deaths.100.000.	0.0157672852
## Child.stunting....of.children.	-0.6149909595
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0103473843
## Child.mortality.rate..deaths.1.000.live.births.	-0.0917905968
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.0426057766
## Populations.using.unsafe.or.unimproved.water.sources....	0.0419666751
## Populations.using.unsafe.or.unimproved.sanitation....	0.0867141080
## Access.to.electricity....of.pop..	0.1402365559
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.2074532868
## Traffic.deaths..deaths.100.000.	-0.1528156096
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0002991716
## Access.to.quality.education..0.unequal..4.equal.	-0.0095256063
## Women.with.no.schooling	0.0016416772
## Access.to.online.governance..0.low..1.high.	-0.0029089686
## Media.censorship..0.frequent..4.rare.	-0.0029795410
## Internet.users....of.pop..	0.0068902444
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0078634449
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0008506738
## Access.to.essential.services...0.none..100.full.coverage.	0.0030409863
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0312926669
## Life.expectancy.at.60..years.	0.0127573894
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0012582094
## Particulate.matter	-0.1774991066
## Biome.protection	-0.3364963751
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.0225134156
## Political.rights..0.no.rights..40.full.rights.	0.0936975671
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0005060936
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0063100709
## Access.to.justice..0.non.existent..1.observed.	-0.0019051870
## Property.rights.for.women..0.no.right..5.full.rights.	0.0043506203
## Vulnerable.employment....of.employees.	0.1227595507
## Early.marriage....of.women.	-0.3761665829
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0010100619
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0044783600
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0081812785
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0142530672
## Quality.weighted.universities..points.	0.0026360639
## Citable.documents	-0.0104638755
## Women.with.advanced.education....	0.0019913319
##	PC23
## Basic.Human.Needs	0.0597221552
## Foundations.of.Wellbeing	0.0998431152
## Opportunity	-0.0184574598
## Nutrition.and.Basic.Medical.Care	0.1547716927
## Water.and.Sanitation	-0.0646432232
## Shelter	-0.0034812307
## Personal.Safety	0.1521826830

## Access.to.Basic.Knowledge	0.0051238781
## Access.to.Information.and.Communications	0.0364855432
## Health.and.Wellness	0.0162770938
## Environmental.Quality	0.3417033625
## Personal.Rights	0.0722881365
## Personal.Freedom.and.Choice	0.0900817940
## Inclusiveness	-0.3028350226
## Access.to.Advanced.Education	0.0668306270
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0126419748
## Child.stunting....of.children.	-0.4082342381
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0054974895
## Child.mortality.rate..deaths.1.000.live.births.	0.0700622338
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.0168917129
## Populations.using.unsafe.or.unimproved.water.sources....	0.1260537599
## Populations.using.unsafe.or.unimproved.sanitation....	0.0696697816
## Access.to.electricity....of.pop..	0.1192355262
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.0018431766
## Traffic.deaths..deaths.100.000.	0.3458170318
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0023106980
## Access.to.quality.education..0.unequal..4.equal.	0.0014332608
## Women.with.no.schooling	0.0002348926
## Access.to.online.governance..0.low..1.high.	0.0005241448
## Media.censorship..0.frequent..4.rare.	0.0070430067
## Internet.users....of.pop..	-0.2467673879
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0586957821
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0010131363
## Access.to.essential.services...0.none..100.full.coverage.	0.0569347982
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0075638409
## Life.expectancy.at.60..years.	0.0025820787
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.0007368737
## Particulate.matter	0.2284257955
## Biome.protection	0.4739524660
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.0258744356
## Political.rights..0.no.rights..40.full.rights.	-0.0047651643
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0011024413
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0058694390
## Access.to.justice..0.non.existent..1.observed.	0.0009273400
## Property.rights.for.women..0.no.right..5.full.rights.	0.0007789809
## Vulnerable.employment....of.employees.	-0.1145628253
## Early.marriage....of.women.	-0.1440130246
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0075657057
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0147002519
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0065732229
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0294884321
## Quality.weighted.universities..points.	-0.0015588765
## Citable.documents	0.0056024491
## Women.with.advanced.education....	0.0008388582
##	PC24
## Basic.Human.Needs	9.098307e-02
## Foundations.of.Wellbeing	-3.786655e-02
## Opportunity	3.806989e-02
## Nutrition.and.Basic.Medical.Care	1.193619e-01
## Water.and.Sanitation	-2.637895e-02
## Shelter	5.911425e-02

## Personal.Safety	2.116317e-01
## Access.to.Basic.Knowledge	-2.637212e-01
## Access.to.Information.and.Communications	3.386167e-01
## Health.and.Wellness	-1.755801e-01
## Environmental.Quality	-5.066226e-02
## Personal.Rights	-8.582143e-02
## Personal.Freedom.and.Choice	-1.087503e-01
## Inclusiveness	-1.376062e-02
## Access.to.Advanced.Education	3.605485e-01
## Deaths.from.infectious.diseases..deaths.100.000.	-2.621423e-03
## Child.stunting....of.children.	-2.752468e-02
## Maternal.mortality.rate..deaths.100.000.live.births.	-1.228676e-03
## Child.mortality.rate..deaths.1.000.live.births.	-9.119141e-02
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-6.120162e-02
## Populations.using.unsafe.or.unimproved.water.sources....	8.566123e-02
## Populations.using.unsafe.or.unimproved.sanitation....	4.039889e-02
## Access.to.electricity....of.pop..	-9.530010e-02
## Household.air.pollution.attributable.deaths..deaths.100.000.	2.226860e-01
## Traffic.deaths..deaths.100.000.	1.155906e-01
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	3.334611e-04
## Access.to.quality.education..0.unequal..4.equal.	-4.415662e-02
## Women.with.no.schooling	2.672663e-03
## Access.to.online.governance..0.low..1.high.	7.856122e-03
## Media.censorship..0.frequent..4.rare.	5.121374e-03
## Internet.users....of.pop..	-2.404080e-01
## Mobile.telephone.subscriptions..subscriptions.100.people.	-5.445373e-02
## Access.to.quality.healthcare..0.unequal..4.equal.	-3.197953e-02
## Access.to.essential.services...0.none..100.full.coverage.	-2.422891e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-4.939681e-02
## Life.expectancy.at.60..years.	-3.074072e-02
## Greenhouse.gas.emissions..total.CO2.equivalents.	-4.722178e-04
## Particulate.matter	-4.121546e-01
## Biome.protection	-6.881785e-02
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	3.312446e-01
## Political.rights..0.no.rights..40.full.rights.	-5.194418e-02
## Freedom.of.expression..0.no.freedom..1.full.freedom.	5.666985e-05
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-6.247397e-03
## Access.to.justice..0.non.existent..1.observed.	-4.016872e-03
## Property.rights.for.women..0.no.right..5.full.rights.	8.988009e-03
## Vulnerable.employment....of.employees.	-1.296915e-01
## Early.marriage....of.women.	3.036065e-01
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	9.558879e-03
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	7.216032e-03
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-3.619925e-03
## Discrimination.and.violence.against.minorities..0.low..10.high.	2.493871e-02
## Quality.weighted.universities..points.	-7.613083e-03
## Citable.documents	-1.281320e-03
## Women.with.advanced.education....	1.119542e-03
##	PC25
## Basic.Human.Needs	-0.1066324399
## Foundations.of.Wellbeing	-0.0016570107
## Opportunity	0.0833977861
## Nutrition.and.Basic.Medical.Care	0.0130771164
## Water.and.Sanitation	-0.0383970516

## Shelter	-0.0190774913
## Personal.Safety	-0.3821668784
## Access.to.Basic.Knowledge	-0.1406101849
## Access.to.Information.and.Communications	-0.0185391479
## Health.and.Wellness	-0.1170437643
## Environmental.Quality	0.269650555
## Personal.Rights	-0.1762651080
## Personal.Freedom.and.Choice	0.1686961588
## Inclusiveness	0.2575140713
## Access.to.Advanced.Education	0.0836259945
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0250019650
## Child.stunting....of.children.	-0.0045745925
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0074511516
## Child.mortality.rate..deaths.1.000.live.births.	-0.0195341862
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.0218908020
## Populations.using.unsafe.or.unimproved.water.sources....	0.0518655056
## Populations.using.unsafe.or.unimproved.sanitation....	0.0577520217
## Access.to.electricity....of.pop..	-0.0548226098
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.0878302833
## Traffic.deaths..deaths.100.000.	-0.4708120934
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0078122434
## Access.to.quality.education..0.unequal..4.equal.	-0.0156411014
## Women.with.no.schooling	0.0014721861
## Access.to.online.governance..0.low..1.high.	-0.0012005802
## Media.censorship..0.frequent..4.rare.	-0.0101271114
## Internet.users....of.pop..	0.1023343175
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0342128112
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0168471074
## Access.to.essential.services...0.none..100.full.coverage.	-0.0526944313
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0159741735
## Life.expectancy.at.60..years.	-0.0245828255
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.0004985356
## Particulate.matter	-0.0092400297
## Biome.protection	0.4810130556
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.3165193187
## Political.rights..0.no.rights..40.full.rights.	-0.0219798342
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0029226112
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0147371749
## Access.to.justice..0.non.existent..1.observed.	-0.0050102482
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0191994029
## Vulnerable.employment....of.employees.	-0.0535322706
## Early.marriage....of.women.	-0.0469199765
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0061813299
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0165539454
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0064228702
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0086650301
## Quality.weighted.universities..points.	-0.0022890409
## Citable.documents	0.0074720228
## Women.with.advanced.education....	0.0012147196
##	PC26
## Basic.Human.Needs	0.0200945343
## Foundations.of.Wellbeing	0.1552415014
## Opportunity	-0.1079807306
## Nutrition.and.Basic.Medical.Care	0.0319456188

## Water.and.Sanitation	0.0222874688
## Shelter	0.0585598504
## Personal.Safety	-0.0328360659
## Access.to.Basic.Knowledge	0.1319183470
## Access.to.Information.and.Communications	0.5840663329
## Health.and.Wellness	-0.0259249044
## Environmental.Quality	-0.0691426738
## Personal.Rights	-0.3889215998
## Personal.Freedom.and.Choice	0.2476779748
## Inclusiveness	0.0527071887
## Access.to.Advanced.Education	-0.3430963148
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0027231934
## Child.stunting....of.children.	-0.1655262362
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0133167106
## Child.mortality.rate..deaths.1.000.live.births.	0.0242153289
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.0586817575
## Populations.using.unsafe.or.unimproved.water.sources....	-0.0030102331
## Populations.using.unsafe.or.unimproved.sanitation....	-0.1138683736
## Access.to.electricity....of.pop..	-0.1432315749
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.0873065242
## Traffic.deaths..deaths.100.000.	-0.0743625689
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0046455433
## Access.to.quality.education..0.unequal..4.equal.	-0.0048255526
## Women.with.no.schooling	-0.0002199672
## Access.to.online.governance..0.low..1.high.	0.0115365859
## Media.censorship..0.frequent..4.rare.	0.0267986544
## Internet.users....of.pop..	-0.1441238063
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0781089201
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0082773243
## Access.to.essential.services...0.none..100.full.coverage.	-0.0414037236
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0222932993
## Life.expectancy.at.60..years.	0.0118754869
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0007886712
## Particulate.matter	0.1112557059
## Biome.protection	-0.0519623265
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.0631083703
## Political.rights..0.no.rights..40.full.rights.	0.3256376813
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0014098783
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.0279228935
## Access.to.justice..0.non.existent..1.observed.	-0.0090057328
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0384640546
## Vulnerable.employment....of.employees.	0.1134816868
## Early.marriage....of.women.	0.1059167114
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0075740518
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0140442597
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0017129756
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0094455506
## Quality.weighted.universities..points.	0.0062454771
## Citable.documents	0.0168078323
## Women.with.advanced.education....	-0.0084587786
##	PC27
## Basic.Human.Needs	0.0044760003
## Foundations.of.Wellbeing	0.1158269748
## Opportunity	-0.0959313711

## Nutrition.and.Basic.Medical.Care	-0.0243392595
## Water.and.Sanitation	-0.0218223365
## Shelter	0.2056128284
## Personal.Safety	-0.1413659345
## Access.to.Basic.Knowledge	-0.1093950470
## Access.to.Information.and.Communications	0.1131417530
## Health.and.Wellness	0.4332434116
## Environmental.Quality	0.0265804397
## Personal.Rights	0.0672791581
## Personal.Freedom.and.Choice	-0.2156692954
## Inclusiveness	-0.0295035205
## Access.to.Advanced.Education	-0.2055599360
## Deaths.from.infectious.diseases..deaths.100.000.	0.0075184368
## Child.stunting....of.children.	0.1345012852
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0009859424
## Child.mortality.rate..deaths.1.000.live.births.	0.0150878519
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.0207129646
## Populations.using.unsafe.or.unimproved.water.sources....	0.0632811872
## Populations.using.unsafe.or.unimproved.sanitation....	-0.0097459888
## Access.to.electricity....of.pop..	-0.1244711474
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.0244947520
## Traffic.deaths..deaths.100.000.	0.0275434770
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0014359144
## Access.to.quality.education..0.unequal..4.equal.	0.0270291266
## Women.with.no.schooling	0.0023594086
## Access.to.online.governance..0.low..1.high.	0.0042373119
## Media.censorship..0.frequent..4.rare.	0.0044430358
## Internet.users....of.pop..	-0.0740049236
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0180836588
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0400735743
## Access.to.essential.services...0.none..100.full.coverage.	0.6671056965
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0212660595
## Life.expectancy.at.60..years.	0.0572754499
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.0002160123
## Particulate.matter	-0.1319469055
## Biome.protection	0.0549005848
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.2444300852
## Political.rights..0.no.rights..40.full.rights.	-0.0249392400
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0007148609
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0004786188
## Access.to.justice..0.non.existent..1.observed.	0.0001341570
## Property.rights.for.women..0.no.right..5.full.rights.	0.0123674512
## Vulnerable.employment....of.employees.	0.0633714017
## Early.marriage....of.women.	-0.1555377458
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0170696311
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0220524087
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0057850737
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0007608026
## Quality.weighted.universities..points.	0.0043092273
## Citable.documents	0.0016992014
## Women.with.advanced.education....	-0.0008381554
##	PC28
## Basic.Human.Needs	0.0138148963
## Foundations.of.Wellbeing	-0.0297114791

## Opportunity	0.0696891331
## Nutrition.and.Basic.Medical.Care	-0.1016956405
## Water.and.Sanitation	-0.0241845288
## Shelter	0.1956678792
## Personal.Safety	-0.0138129198
## Access.to.Basic.Knowledge	0.017824599
## Access.to.Information.and.Communications	-0.3405676315
## Health.and.Wellness	0.2072055728
## Environmental.Quality	-0.0033889964
## Personal.Rights	0.0290429455
## Personal.Freedom.and.Choice	0.5220573679
## Inclusiveness	-0.2841689141
## Access.to.Advanced.Education	0.0117065523
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0030055123
## Child.stunting....of.children.	-0.0816079311
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0056397325
## Child.mortality.rate..deaths.1.000.live.births.	0.0483844350
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0398684540
## Populations.using.unsafe.or.unimproved.water.sources....	0.0481464062
## Populations.using.unsafe.or.unimproved.sanitation....	0.0584675004
## Access.to.electricity....of.pop..	-0.0528575125
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.1048073315
## Traffic.deaths..deaths.100.000.	0.0447095599
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0001409367
## Access.to.quality.education..0.unequal..4.equal.	-0.0027713042
## Women.with.no.schooling	0.0027469700
## Access.to.online.governance..0.low..1.high.	-0.0092600215
## Media.censorship..0.frequent..4.rare.	0.0061244836
## Internet.users....of.pop..	0.1405748485
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0389484594
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0158229662
## Access.to.essential.services...0.none..100.full.coverage.	0.0673572328
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0044496645
## Life.expectancy.at.60..years.	0.0827085835
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.0002619794
## Particulate.matter	-0.1421567031
## Biome.protection	-0.0030072941
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.1210677419
## Political.rights..0.no.rights..40.full.rights.	0.2456751157
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0015681448
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0008905028
## Access.to.justice..0.non.existent..1.observed.	0.0011588530
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0145084399
## Vulnerable.employment....of.employees.	0.2001710881
## Early.marriage....of.women.	0.4766358555
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0062020279
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0422039715
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0091109204
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0299504238
## Quality.weighted.universities..points.	-0.0027762882
## Citable.documents	0.0206466631
## Women.with.advanced.education....	0.0001031359
##	PC29
## Basic.Human.Needs	-0.0480634935

## Foundations.of.Wellbeing	0.0532925224
## Opportunity	0.1209255701
## Nutrition.and.Basic.Medical.Care	0.0688354735
## Water.and.Sanitation	0.0274745961
## Shelter	-0.1808822478
## Personal.Safety	-0.1078099834
## Access.to.Basic.Knowledge	-0.0658112968
## Access.to.Information.and.Communications	0.2362001317
## Health.and.Wellness	0.0783400226
## Environmental.Quality	-0.0355407332
## Personal.Rights	0.2843820116
## Personal.Freedom.and.Choice	0.3949994457
## Inclusiveness	-0.0591780507
## Access.to.Advanced.Education	-0.1360338221
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0027802274
## Child.stunting....of.children.	0.0006530572
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0016075723
## Child.mortality.rate..deaths.1.000.live.births.	0.0232419153
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.0547842872
## Populations.using.unsafe.or.unimproved.water.sources....	-0.0243705030
## Populations.using.unsafe.or.unimproved.sanitation....	-0.1056522183
## Access.to.electricity....of.pop..	0.0666005466
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.0734732776
## Traffic.deaths..deaths.100.000.	-0.0978311230
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0029951992
## Access.to.quality.education..0.unequal..4.equal.	0.0314649569
## Women.with.no.schooling	0.0009346842
## Access.to.online.governance..0.low..1.high.	0.0069934766
## Media.censorship..0.frequent..4.rare.	0.0012816983
## Internet.users....of.pop..	-0.1621819747
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0318296613
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0246281064
## Access.to.essential.services...0.none..100.full.coverage.	0.0103658276
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0133329252
## Life.expectancy.at.60..years.	-0.0121004959
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0006915668
## Particulate.matter	0.0077638596
## Biome.protection	-0.0891763443
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.0211604544
## Political.rights..0.no.rights..40.full.rights.	-0.6909927100
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0001251075
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0383477278
## Access.to.justice..0.non.existent..1.observed.	0.0074047741
## Property.rights.for.women..0.no.right..5.full.rights.	0.0510427892
## Vulnerable.employment....of.employees.	0.0989150520
## Early.marriage....of.women.	0.1431503315
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0091017885
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0267026127
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0214827432
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.1350095570
## Quality.weighted.universities..points.	0.0022260776
## Citable.documents	0.0038337499
## Women.with.advanced.education....	-0.0019397388
##	PC30

## Basic.Human.Needs	0.1791426914
## Foundations.of.Wellbeing	0.0564030121
## Opportunity	0.0241165836
## Nutrition.and.Basic.Medical.Care	0.0014198253
## Water.and.Sanitation	-0.0021836194
## Shelter	0.728982967
## Personal.Safety	-0.0119614715
## Access.to.Basic.Knowledge	0.0050963972
## Access.to.Information.and.Communications	0.0282835067
## Health.and.Wellness	0.1544334570
## Environmental.Quality	0.0376220313
## Personal.Rights	0.0744248845
## Personal.Freedom.and.Choice	-0.0221693101
## Inclusiveness	0.0062728457
## Access.to.Advanced.Education	0.0374429027
## Deaths.from.infectious.diseases..deaths.100.000.	0.0047257149
## Child.stunting....of.children.	0.0491891699
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0027054064
## Child.mortality.rate..deaths.1.000.live.births.	-0.0281162249
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0208675922
## Populations.using.unsafe.or.unimproved.water.sources....	0.0219344523
## Populations.using.unsafe.or.unimproved.sanitation....	-0.0010751437
## Access.to.electricity....of.pop..	-0.2710578384
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.2122277037
## Traffic.deaths..deaths.100.000.	-0.0948058523
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.0075970467
## Access.to.quality.education..0.unequal..4.equal.	0.0219585660
## Women.with.no.schooling	0.0054243726
## Access.to.online.governance..0.low..1.high.	0.0018062792
## Media.censorship..0.frequent..4.rare.	0.0156889115
## Internet.users....of.pop..	-0.0715784622
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0076805267
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0345815722
## Access.to.essential.services...0.none..100.full.coverage.	-0.3783564164
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0080642337
## Life.expectancy.at.60..years.	0.0853485045
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.0003309408
## Particulate.matter	0.1196810555
## Biome.protection	0.0075244520
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.1711468117
## Political.rights..0.no.rights..40.full.rights.	-0.2158407825
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0062301648
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.0155617899
## Access.to.justice..0.non.existent..1.observed.	0.0094461850
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0120983902
## Vulnerable.employment....of.employees.	-0.0162162594
## Early.marriage....of.women.	-0.1281299991
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0032522541
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0176392003
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0024002344
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0315499229
## Quality.weighted.universities..points.	-0.0008508850
## Citable.documents	-0.0295619146
## Women.with.advanced.education....	-0.0020767922

##	PC31
## Basic.Human.Needs	0.0734883510
## Foundations.of.Wellbeing	-0.1629849371
## Opportunity	0.0261708063
## Nutrition.and.Basic.Medical.Care	0.0281079356
## Water.and.Sanitation	0.0014871715
## Shelter	0.2901238528
## Personal.Safety	-0.0256153560
## Access.to.Basic.Knowledge	0.0820592376
## Access.to.Information.and.Communications	-0.0385106394
## Health.and.Wellness	-0.6900149334
## Environmental.Quality	-0.0064283773
## Personal.Rights	0.0670942105
## Personal.Freedom.and.Choice	0.1043232760
## Inclusiveness	-0.0110381866
## Access.to.Advanced.Education	-0.0550668701
## Deaths.from.infectious.diseases..deaths.100.000.	0.0038775956
## Child.stunting....of.children.	0.0086996110
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0056410581
## Child.mortality.rate..deaths.1.000.live.births.	0.0073341832
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0004124785
## Populations.using.unsafe.or.unimproved.water.sources....	0.0094656492
## Populations.using.unsafe.or.unimproved.sanitation....	-0.0148617238
## Access.to.electricity....of.pop..	-0.0863681112
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.0510573297
## Traffic.deaths..deaths.100.000.	-0.0037642362
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0040066219
## Access.to.quality.education..0.unequal..4.equal.	-0.1617295315
## Women.with.no.schooling	-0.0075766872
## Access.to.online.governance..0.low..1.high.	-0.0069711026
## Media.censorship..0.frequent..4.rare.	-0.0060136166
## Internet.users....of.pop..	0.0339142486
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0148764521
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.2147389648
## Access.to.essential.services...0.none..100.full.coverage.	0.4873537633
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0172760715
## Life.expectancy.at.60..years.	-0.0051648036
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0004448142
## Particulate.matter	0.0861728018
## Biome.protection	-0.0115226299
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.1625856987
## Political.rights..0.no.rights..40.full.rights.	-0.0930907088
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0018454129
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0125404554
## Access.to.justice..0.non.existent..1.observed.	-0.0113421932
## Property.rights.for.women..0.no.right..5.full.rights.	0.0461447080
## Vulnerable.employment....of.employees.	0.0706064230
## Early.marriage....of.women.	0.0079939608
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0391536162
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0180793286
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0078711798
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0346802607
## Quality.weighted.universities..points.	-0.0004356838
## Citable.documents	0.0576607377

## Women.with.advanced.education....	-0.0055709461
##	PC32
## Basic.Human.Needs	-0.1762122076
## Foundations.of.Wellbeing	0.0085379767
## Opportunity	0.0050475733
## Nutrition.and.Basic.Medical.Care	-0.8004914642
## Water.and.Sanitation	0.0056587594
## Shelter	0.0273497826
## Personal.Safety	0.0626621595
## Access.to.Basic.Knowledge	-0.0430671526
## Access.to.Information.and.Communications	0.1039513383
## Health.and.Wellness	-0.0252063919
## Environmental.Quality	-0.0018978277
## Personal.Rights	0.0380746342
## Personal.Freedom.and.Choice	-0.0436431874
## Inclusiveness	-0.0256183521
## Access.to.Advanced.Education	0.0513702032
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0129105353
## Child.stunting....of.children.	-0.2828495985
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0286172415
## Child.mortality.rate..deaths.1.000.live.births.	-0.0772062801
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.0213906810
## Populations.using.unsafe.or.unimproved.water.sources....	0.0009607014
## Populations.using.unsafe.or.unimproved.sanitation....	-0.0351832260
## Access.to.electricity....of.pop..	0.0467084486
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.0216868849
## Traffic.deaths..deaths.100.000.	-0.0376168919
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0070448025
## Access.to.quality.education..0.unequal..4.equal.	-0.0261650693
## Women.with.no.schooling	-0.0080500654
## Access.to.online.governance..0.low..1.high.	0.0039203531
## Media.censorship..0.frequent..4.rare.	-0.0080425982
## Internet.users....of.pop..	-0.0605175649
## Mobile.telephone.subscriptions..subscriptions.100.people.	-0.0043814699
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0294149886
## Access.to.essential.services...0.none..100.full.coverage.	0.0058014006
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0001529221
## Life.expectancy.at.60..years.	0.0558961514
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0001327549
## Particulate.matter	-0.0052980619
## Biome.protection	0.0160372673
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.0394065390
## Political.rights..0.no.rights..40.full.rights.	-0.1180833655
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.0002177394
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0299884982
## Access.to.justice..0.non.existent..1.observed.	-0.0097051797
## Property.rights.for.women..0.no.right..5.full.rights.	0.0261018539
## Vulnerable.employment....of.employees.	-0.0122281862
## Early.marriage....of.women.	0.0038783595
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.0399390442
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.0581398468
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0361763866
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.4219752119
## Quality.weighted.universities..points.	0.0008984150

## Citable.documents	-0.0108948196
## Women.with.advanced.education....	0.0047820999
##	PC33
## Basic.Human.Needs	-0.0608246473
## Foundations.of.Wellbeing	-0.0091848240
## Opportunity	-0.0053626494
## Nutrition.and.Basic.Medical.Care	-0.4039206904
## Water.and.Sanitation	0.0004123546
## Shelter	0.0817022561
## Personal.Safety	0.0783917796
## Access.to.Basic.Knowledge	0.0042828056
## Access.to.Information.and.Communications	-0.0023832109
## Health.and.Wellness	-0.0531627627
## Environmental.Quality	0.0141288559
## Personal.Rights	-0.0289943248
## Personal.Freedom.and.Choice	-0.0657053751
## Inclusiveness	0.0971867073
## Access.to.Advanced.Education	-0.0252742882
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0040203125
## Child.stunting....of.children.	-0.1496046135
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0168505161
## Child.mortality.rate..deaths.1.000.live.births.	-0.0366308428
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0084487043
## Populations.using.unsafe.or.unimproved.water.sources....	0.0054393917
## Populations.using.unsafe.or.unimproved.sanitation....	-0.0006260402
## Access.to.electricity....of.pop..	-0.0135195075
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.0190489114
## Traffic.deaths..deaths.100.000.	0.0268849442
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0086212081
## Access.to.quality.education..0.unequal..4.equal.	0.0389989132
## Women.with.no.schooling	0.0082163290
## Access.to.online.governance..0.low..1.high.	-0.0078923766
## Media.censorship..0.frequent..4.rare.	0.0346987122
## Internet.users....of.pop..	0.0279750002
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0048026026
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0116752934
## Access.to.essential.services...0.none..100.full.coverage.	0.0222945164
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.0018779041
## Life.expectancy.at.60..years.	-0.0679337459
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.0002383584
## Particulate.matter	0.0002380662
## Biome.protection	-0.0014807304
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.0016891964
## Political.rights..0.no.rights..40.full.rights.	0.0111255326
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0142158735
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.0571531988
## Access.to.justice..0.non.existent..1.observed.	-0.0026693635
## Property.rights.for.women..0.no.right..5.full.rights.	0.0053498033
## Vulnerable.employment....of.employees.	-0.0303827695
## Early.marriage....of.women.	-0.0311984504
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.1317504577
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.0698716340
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.0849111982
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.8557684438

## Quality.weighted.universities..points.	-0.0020455236
## Citable.documents	0.0144979775
## Women.with.advanced.education....	0.0030125245
##	PC34
## Basic.Human.Needs	1.075789e-03
## Foundations.of.Wellbeing	-1.199235e-01
## Opportunity	3.332927e-05
## Nutrition.and.Basic.Medical.Care	4.803322e-05
## Water.and.Sanitation	1.188372e-04
## Shelter	-1.380071e-04
## Personal.Safety	4.884931e-03
## Access.to.Basic.Knowledge	2.961005e-02
## Access.to.Information.and.Communications	3.515656e-02
## Health.and.Wellness	4.226344e-02
## Environmental.Quality	-5.869893e-01
## Personal.Rights	1.812225e-03
## Personal.Freedom.and.Choice	1.993438e-02
## Inclusiveness	-1.552265e-03
## Access.to.Advanced.Education	-2.062384e-02
## Deaths.from.infectious.diseases..deaths.100.000.	2.020562e-04
## Child.stunting....of.children.	-1.629867e-02
## Maternal.mortality.rate..deaths.100.000.live.births.	1.391911e-03
## Child.mortality.rate..deaths.1.000.live.births.	5.819933e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-8.006250e-03
## Populations.using.unsafe.or.unimproved.water.sources....	-1.046417e-03
## Populations.using.unsafe.or.unimproved.sanitation....	7.288297e-03
## Access.to.electricity....of.pop..	-2.579054e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	9.345341e-03
## Traffic.deaths..deaths.100.000.	4.398193e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-1.009465e-03
## Access.to.quality.education..0.unequal..4.equal.	7.852247e-02
## Women.with.no.schooling	8.159248e-03
## Access.to.online.governance..0.low..1.high.	3.368180e-02
## Media.censorship..0.frequent..4.rare.	-2.939189e-01
## Internet.users....of.pop..	-3.058670e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	-6.679269e-03
## Access.to.quality.healthcare..0.unequal..4.equal.	7.815804e-03
## Access.to.essential.services...0.none..100.full.coverage.	1.142425e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-4.410519e-04
## Life.expectancy.at.60..years.	6.344636e-03
## Greenhouse.gas.emissions..total.CO2.equivalents.	-4.656990e-04
## Particulate.matter	-2.040166e-01
## Biome.protection	5.142941e-01
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-2.342433e-01
## Political.rights..0.no.rights..40.full.rights.	-3.744794e-04
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-3.192484e-02
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-7.057919e-02
## Access.to.justice..0.non.existent..1.observed.	-1.587756e-02
## Property.rights.for.women..0.no.right..5.full.rights.	2.699074e-01
## Vulnerable.employment....of.employees.	-9.260955e-03
## Early.marriage....of.women.	5.611040e-03
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-3.746768e-02
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	1.562864e-01
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-2.704277e-02

## Discrimination.and.violence.against.minorities..0.low..10.high.	1.240073e-02
## Quality.weighted.universities..points.	-6.243918e-03
## Citable.documents	-2.721031e-01
## Women.with.advanced.education....	-2.700649e-02
##	PC35
## Basic.Human.Needs	9.149066e-03
## Foundations.of.Wellbeing	-9.711473e-03
## Opportunity	3.103190e-03
## Nutrition.and.Basic.Medical.Care	-3.040483e-02
## Water.and.Sanitation	-3.179808e-03
## Shelter	1.004381e-01
## Personal.Safety	-2.885448e-02
## Access.to.Basic.Knowledge	-1.171026e-02
## Access.to.Information.and.Communications	-1.456634e-02
## Health.and.Wellness	-5.328407e-02
## Environmental.Quality	4.246287e-02
## Personal.Rights	-2.719817e-03
## Personal.Freedom.and.Choice	4.289135e-02
## Inclusiveness	-3.742931e-02
## Access.to.Advanced.Education	1.034019e-02
## Deaths.from.infectious.diseases..deaths.100.000.	-4.101709e-03
## Child.stunting....of.children.	-9.759607e-03
## Maternal.mortality.rate..deaths.100.000.live.births.	-4.116614e-04
## Child.mortality.rate..deaths.1.000.live.births.	1.635695e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-2.009167e-03
## Populations.using.unsafe.or.unimproved.water.sources....	1.565080e-02
## Populations.using.unsafe.or.unimproved.sanitation....	-5.395547e-03
## Access.to.electricity....of.pop..	-9.645805e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	2.686911e-02
## Traffic.deaths..deaths.100.000.	-2.069246e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	2.634327e-02
## Access.to.quality.education..0.unequal..4.equal.	3.539973e-01
## Women.with.no.schooling	2.393514e-02
## Access.to.online.governance..0.low..1.high.	-8.360717e-03
## Media.censorship..0.frequent..4.rare.	9.022115e-03
## Internet.users....of.pop..	-8.358094e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	3.077644e-04
## Access.to.quality.healthcare..0.unequal..4.equal.	3.179252e-01
## Access.to.essential.services...0.none..100.full.coverage.	7.280618e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-9.289471e-03
## Life.expectancy.at.60..years.	-8.415776e-01
## Greenhouse.gas.emissions..total.CO2.equivalents.	-6.873151e-05
## Particulate.matter	2.426306e-02
## Biome.protection	-4.716594e-02
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-3.381454e-02
## Political.rights..0.no.rights..40.full.rights.	1.848471e-02
## Freedom.of.expression..0.no.freedom..1.full.freedom.	7.033430e-03
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-1.307780e-02
## Access.to.justice..0.non.existent..1.observed.	-1.533803e-02
## Property.rights.for.women..0.no.right..5.full.rights.	4.452333e-02
## Vulnerable.employment....of.employees.	1.069722e-02
## Early.marriage....of.women.	3.331068e-02
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	1.018984e-02
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	1.164373e-01

## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-1.474512e-02
## Discrimination.and.violence.against.minorities..0.low..10.high.	-1.188864e-01
## Quality.weighted.universities..points.	1.735264e-03
## Citable.documents	1.817109e-02
## Women.with.advanced.education....	2.394781e-02
##	PC36
## Basic.Human.Needs	0.0030650150
## Foundations.of.Wellbeing	-0.0520427579
## Opportunity	-0.0092488017
## Nutrition.and.Basic.Medical.Care	0.0082803318
## Water.and.Sanitation	0.0011686390
## Shelter	0.0109212693
## Personal.Safety	-0.0043108066
## Access.to.Basic.Knowledge	-0.0002814297
## Access.to.Information.and.Communications	0.0025125259
## Health.and.Wellness	0.0489611562
## Environmental.Quality	-0.2612464358
## Personal.Rights	0.0173156238
## Personal.Freedom.and.Choice	-0.0509279936
## Inclusiveness	0.0126167018
## Access.to.Advanced.Education	-0.0163656077
## Deaths.from.infectious.diseases..deaths.100.000.	0.0014173169
## Child.stunting....of.children.	-0.0087095769
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.0006238468
## Child.mortality.rate..deaths.1.000.live.births.	-0.0134302572
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0129938131
## Populations.using.unsafe.or.unimproved.water.sources....	0.0008378796
## Populations.using.unsafe.or.unimproved.sanitation....	0.0059473176
## Access.to.electricity....of.pop..	-0.0057459952
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.0019413036
## Traffic.deaths..deaths.100.000.	-0.0006001056
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.0149269012
## Access.to.quality.education..0.unequal..4.equal.	0.0240674946
## Women.with.no.schooling	-0.0047231732
## Access.to.online.governance..0.low..1.high.	0.0145966450
## Media.censorship..0.frequent..4.rare.	0.1025650689
## Internet.users....of.pop..	-0.0070522881
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0023338454
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0395799406
## Access.to.essential.services...0.none..100.full.coverage.	-0.0426065795
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0003518782
## Life.expectancy.at.60..years.	-0.0584155983
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.0001638364
## Particulate.matter	-0.0970683455
## Biome.protection	0.2210614459
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.0834299645
## Political.rights..0.no.rights..40.full.rights.	-0.0088266884
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.0034616152
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0445138212
## Access.to.justice..0.non.existent..1.observed.	-0.0080239349
## Property.rights.for.women..0.no.right..5.full.rights.	-0.0261101340
## Vulnerable.employment....of.employees.	-0.0111654367
## Early.marriage....of.women.	-0.0171393452
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.1371838205

## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.4130102241
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.2220199400
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.0156147030
## Quality.weighted.universities..points.	-0.0014373447
## Citable.documents	0.7722277225
## Women.with.advanced.education....	0.0186970859
##	PC37
## Basic.Human.Needs	9.943647e-03
## Foundations.of.Wellbeing	3.283835e-02
## Opportunity	2.058518e-03
## Nutrition.and.Basic.Medical.Care	-2.992466e-03
## Water.and.Sanitation	-7.454579e-04
## Shelter	3.362716e-02
## Personal.Safety	7.202149e-03
## Access.to.Basic.Knowledge	-9.189628e-03
## Access.to.Information.and.Communications	1.087804e-02
## Health.and.Wellness	2.243154e-02
## Environmental.Quality	1.092860e-01
## Personal.Rights	-9.344188e-03
## Personal.Freedom.and.Choice	-1.029587e-02
## Inclusiveness	2.545364e-02
## Access.to.Advanced.Education	9.917122e-06
## Deaths.from.infectious.diseases..deaths.100.000.	-1.414608e-03
## Child.stunting....of.children.	4.184236e-03
## Maternal.mortality.rate..deaths.100.000.live.births.	1.804273e-03
## Child.mortality.rate..deaths.1.000.live.births.	1.030755e-02
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-6.087927e-03
## Populations.using.unsafe.or.unimproved.water.sources....	-4.316920e-04
## Populations.using.unsafe.or.unimproved.sanitation....	8.104798e-03
## Access.to.electricity....of.pop..	-1.721016e-02
## Household.air.pollution.attributable.deaths..deaths.100.000.	5.737787e-03
## Traffic.deaths..deaths.100.000.	5.612883e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	1.576583e-02
## Access.to.quality.education..0.unequal..4.equal.	-1.496525e-01
## Women.with.no.schooling	-4.852027e-03
## Access.to.online.governance..0.low..1.high.	7.054735e-02
## Media.censorship..0.frequent..4.rare.	-7.156120e-01
## Internet.users....of.pop..	-5.152301e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	-1.800230e-03
## Access.to.quality.healthcare..0.unequal..4.equal.	5.272612e-02
## Access.to.essential.services...0.none..100.full.coverage.	-4.096188e-03
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	7.028997e-04
## Life.expectancy.at.60..years.	-1.163995e-01
## Greenhouse.gas.emissions..total.CO2.equivalents.	1.287405e-04
## Particulate.matter	5.113217e-02
## Biome.protection	-1.031603e-01
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	2.966493e-02
## Political.rights..0.no.rights..40.full.rights.	4.186341e-02
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-7.308621e-02
## Freedom.of.religion..0.no.freedom..4.full.freedom.	4.356983e-01
## Access.to.justice..0.non.existent..1.observed.	-4.144340e-02
## Property.rights.for.women..0.no.right..5.full.rights.	-5.995581e-03
## Vulnerable.employment....of.employees.	-8.130294e-03
## Early.marriage....of.women.	-5.253553e-03

## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	1.982671e-02
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-4.084322e-01
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	1.649317e-01
## Discrimination.and.violence.against.minorities..0.low..10.high.	6.420163e-02
## Quality.weighted.universities..points.	6.917600e-04
## Citable.documents	-1.263081e-01
## Women.with.advanced.education....	-4.735293e-03
##	PC38
## Basic.Human.Needs	3.359696e-03
## Foundations.of.Wellbeing	-4.924521e-02
## Opportunity	3.660169e-03
## Nutrition.and.Basic.Medical.Care	-2.551243e-03
## Water.and.Sanitation	-4.466963e-04
## Shelter	7.475180e-03
## Personal.Safety	4.854045e-03
## Access.to.Basic.Knowledge	1.307444e-02
## Access.to.Information.and.Communications	6.804541e-03
## Health.and.Wellness	8.920667e-03
## Environmental.Quality	-2.282246e-01
## Personal.Rights	1.689757e-02
## Personal.Freedom.and.Choice	-5.318636e-03
## Inclusiveness	5.411467e-03
## Access.to.Advanced.Education	-2.400503e-03
## Deaths.from.infectious.diseases..deaths.100.000.	-2.034986e-03
## Child.stunting....of.children.	-6.255012e-03
## Maternal.mortality.rate..deaths.100.000.live.births.	-1.713279e-04
## Child.mortality.rate..deaths.1.000.live.births.	1.388310e-02
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	7.344443e-04
## Populations.using.unsafe.or.unimproved.water.sources....	1.506634e-03
## Populations.using.unsafe.or.unimproved.sanitation....	-1.716344e-03
## Access.to.electricity....of.pop..	1.373056e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	6.101692e-03
## Traffic.deaths..deaths.100.000.	3.609058e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	5.982441e-02
## Access.to.quality.education..0.unequal..4.equal.	-1.159635e-01
## Women.with.no.schooling	1.999178e-03
## Access.to.online.governance..0.low..1.high.	-3.984132e-02
## Media.censorship..0.frequent..4.rare.	3.356482e-01
## Internet.users....of.pop..	3.383310e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	-7.598527e-05
## Access.to.quality.healthcare..0.unequal..4.equal.	4.397950e-02
## Access.to.essential.services...0.none..100.full.coverage.	4.790781e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-8.200055e-04
## Life.expectancy.at.60..years.	-1.130318e-01
## Greenhouse.gas.emissions..total.CO2.equivalents.	-9.520347e-05
## Particulate.matter	-7.504188e-02
## Biome.protection	1.830571e-01
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-9.473082e-02
## Political.rights..0.no.rights..40.full.rights.	-3.613410e-02
## Freedom.of.expression..0.no.freedom..1.full.freedom.	7.207202e-02
## Freedom.of.religion..0.no.freedom..4.full.freedom.	3.347654e-01
## Access.to.justice..0.non.existent..1.observed.	6.649405e-03
## Property.rights.for.women..0.no.right..5.full.rights.	-6.689839e-01
## Vulnerable.employment....of.employees.	-3.120556e-03

## Early.marriage....of.women.	-2.906434e-04
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	2.165466e-01
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-2.020015e-01
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-4.082397e-02
## Discrimination.and.violence.against.minorities..0.low..10.high.	-5.947676e-04
## Quality.weighted.universities..points.	-2.976005e-03
## Citable.documents	-3.023099e-01
## Women.with.advanced.education....	3.319704e-02
##	PC39
## Basic.Human.Needs	6.388469e-03
## Foundations.of.Wellbeing	-2.071276e-03
## Opportunity	1.571045e-03
## Nutrition.and.Basic.Medical.Care	2.740795e-02
## Water.and.Sanitation	5.979467e-04
## Shelter	3.434168e-03
## Personal.Safety	-7.954441e-03
## Access.to.Basic.Knowledge	-8.705978e-03
## Access.to.Information.and.Communications	-1.027939e-02
## Health.and.Wellness	-2.225088e-02
## Environmental.Quality	3.326446e-02
## Personal.Rights	-1.742969e-02
## Personal.Freedom.and.Choice	-4.328527e-03
## Inclusiveness	1.235138e-02
## Access.to.Advanced.Education	1.247650e-02
## Deaths.from.infectious.diseases..deaths.100.000.	1.716867e-03
## Child.stunting....of.children.	1.035796e-02
## Maternal.mortality.rate..deaths.100.000.live.births.	1.479737e-03
## Child.mortality.rate..deaths.1.000.live.births.	2.520417e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-2.165763e-03
## Populations.using.unsafe.or.unimproved.water.sources....	-2.401095e-03
## Populations.using.unsafe.or.unimproved.sanitation....	4.427659e-03
## Access.to.electricity....of.pop..	-1.227802e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	7.331617e-03
## Traffic.deaths..deaths.100.000.	-1.357115e-02
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-1.690026e-02
## Access.to.quality.education..0.unequal..4.equal.	1.096887e-01
## Women.with.no.schooling	-2.203406e-02
## Access.to.online.governance..0.low..1.high.	-2.108200e-02
## Media.censorship..0.frequent..4.rare.	2.527953e-01
## Internet.users....of.pop..	8.145745e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	-4.644046e-04
## Access.to.quality.healthcare..0.unequal..4.equal.	-1.781862e-03
## Access.to.essential.services...0.none..100.full.coverage.	2.872386e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-7.820379e-04
## Life.expectancy.at.60..years.	-1.542439e-02
## Greenhouse.gas.emissions..total.CO2.equivalents.	-8.965425e-05
## Particulate.matter	1.046733e-02
## Biome.protection	-1.205735e-02
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	7.743861e-03
## Political.rights..0.no.rights..40.full.rights.	1.574968e-02
## Freedom.of.expression..0.no.freedom..1.full.freedom.	2.064112e-02
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-3.720126e-01
## Access.to.justice..0.non.existent..1.observed.	-2.512350e-03
## Property.rights.for.women..0.no.right..5.full.rights.	3.165442e-01

## Vulnerable.employment....of.employees.	-8.910639e-04
## Early.marriage....of.women.	-1.038430e-02
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	2.101488e-01
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-6.234737e-01
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	3.209457e-01
## Discrimination.and.violence.against.minorities..0.low..10.high.	-4.033371e-02
## Quality.weighted.universities..points.	8.339723e-04
## Citable.documents	-3.746277e-01
## Women.with.advanced.education....	2.187493e-02
##	PC40
## Basic.Human.Needs	1.601437e-03
## Foundations.of.Wellbeing	-2.848777e-02
## Opportunity	-5.261112e-03
## Nutrition.and.Basic.Medical.Care	1.289723e-02
## Water.and.Sanitation	-6.140484e-04
## Shelter	5.659105e-03
## Personal.Safety	-6.962254e-03
## Access.to.Basic.Knowledge	-1.561102e-02
## Access.to.Information.and.Communications	1.510381e-02
## Health.and.Wellness	-1.327288e-01
## Environmental.Quality	1.922524e-02
## Personal.Rights	2.251201e-03
## Personal.Freedom.and.Choice	-6.050408e-03
## Inclusiveness	-2.386167e-02
## Access.to.Advanced.Education	7.614640e-03
## Deaths.from.infectious.diseases..deaths.100.000.	3.192617e-04
## Child.stunting....of.children.	1.042500e-02
## Maternal.mortality.rate..deaths.100.000.live.births.	3.109697e-04
## Child.mortality.rate..deaths.1.000.live.births.	-1.061720e-02
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	9.618558e-04
## Populations.using.unsafe.or.unimproved.water.sources....	3.227426e-03
## Populations.using.unsafe.or.unimproved.sanitation....	7.418796e-04
## Access.to.electricity....of.pop..	-2.367963e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	-2.865332e-03
## Traffic.deaths..deaths.100.000.	1.881218e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-2.259916e-02
## Access.to.quality.education..0.unequal..4.equal.	8.357725e-01
## Women.with.no.schooling	5.002644e-02
## Access.to.online.governance..0.low..1.high.	2.530315e-02
## Media.censorship..0.frequent..4.rare.	-1.180687e-01
## Internet.users....of.pop..	-2.612654e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	-2.940849e-05
## Access.to.quality.healthcare..0.unequal..4.equal.	-1.589542e-01
## Access.to.essential.services...0.none..100.full.coverage.	3.693239e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-2.199382e-03
## Life.expectancy.at.60..years.	3.029570e-01
## Greenhouse.gas.emissions..total.CO2.equivalents.	6.335653e-06
## Particulate.matter	-1.963760e-03
## Biome.protection	-1.605553e-02
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	9.766380e-03
## Political.rights..0.no.rights..40.full.rights.	1.539307e-02
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-1.720258e-02
## Freedom.of.religion..0.no.freedom..4.full.freedom.	1.828662e-01
## Access.to.justice..0.non.existent..1.observed.	-1.544363e-03

## Property.rights.for.women..0.no.right..5.full.rights.	-1.189563e-01
## Vulnerable.employment....of.employees.	2.008612e-03
## Early.marriage....of.women.	2.312867e-03
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	2.969569e-01
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-2.547036e-02
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-2.324868e-02
## Discrimination.and.violence.against.minorities..0.low..10.high.	-3.634676e-02
## Quality.weighted.universities..points.	3.273726e-04
## Citable.documents	7.299698e-02
## Women.with.advanced.education....	-2.198670e-02
##	PC41
## Basic.Human.Needs	1.927786e-03
## Foundations.of.Wellbeing	-7.474449e-03
## Opportunity	3.639788e-03
## Nutrition.and.Basic.Medical.Care	-9.869541e-03
## Water.and.Sanitation	4.755054e-05
## Shelter	-2.270616e-03
## Personal.Safety	1.941080e-02
## Access.to.Basic.Knowledge	-1.455038e-02
## Access.to.Information.and.Communications	-6.740644e-03
## Health.and.Wellness	-3.671981e-02
## Environmental.Quality	2.390861e-02
## Personal.Rights	-1.875283e-02
## Personal.Freedom.and.Choice	5.388168e-03
## Inclusiveness	1.324499e-02
## Access.to.Advanced.Education	1.285932e-02
## Deaths.from.infectious.diseases..deaths.100.000.	1.340281e-03
## Child.stunting....of.children.	-9.403209e-03
## Maternal.mortality.rate..deaths.100.000.live.births.	-5.625185e-04
## Child.mortality.rate..deaths.1.000.live.births.	-6.441048e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-2.558095e-04
## Populations.using.unsafe.or.unimproved.water.sources....	-6.492334e-03
## Populations.using.unsafe.or.unimproved.sanitation....	2.402065e-03
## Access.to.electricity....of.pop..	4.361942e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	1.490360e-03
## Traffic.deaths..deaths.100.000.	4.024446e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	2.574864e-03
## Access.to.quality.education..0.unequal..4.equal.	2.306993e-01
## Women.with.no.schooling	-1.831791e-02
## Access.to.online.governance..0.low..1.high.	-2.219162e-02
## Media.censorship..0.frequent..4.rare.	1.601934e-01
## Internet.users....of.pop..	5.005028e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	1.374263e-04
## Access.to.quality.healthcare..0.unequal..4.equal.	-3.689512e-02
## Access.to.essential.services...0.none..100.full.coverage.	4.233535e-03
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-1.033369e-03
## Life.expectancy.at.60..years.	6.772491e-02
## Greenhouse.gas.emissions..total.CO2.equivalents.	7.587832e-05
## Particulate.matter	6.353539e-03
## Biome.protection	-2.450456e-02
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	7.908000e-03
## Political.rights..0.no.rights..40.full.rights.	8.883855e-03
## Freedom.of.expression..0.no.freedom..1.full.freedom.	7.304007e-03
## Freedom.of.religion..0.no.freedom..4.full.freedom.	2.108990e-01

## Access.to.justice..0.non.existent..1.observed.	-4.758177e-02
## Property.rights.for.women..0.no.right..5.full.rights.	-7.245354e-02
## Vulnerable.employment....of.employees.	-9.876300e-04
## Early.marriage....of.women.	7.480433e-03
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-7.339906e-01
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	9.787213e-02
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	4.994738e-01
## Discrimination.and.violence.against.minorities..0.low..10.high.	5.032399e-02
## Quality.weighted.universities..points.	-7.033402e-04
## Citable.documents	-2.391942e-01
## Women.with.advanced.education....	1.394224e-02
##	PC42
## Basic.Human.Needs	1.048871e-02
## Foundations.of.Wellbeing	1.349732e-03
## Opportunity	-1.565436e-02
## Nutrition.and.Basic.Medical.Care	1.268215e-02
## Water.and.Sanitation	1.294549e-03
## Shelter	9.768244e-03
## Personal.Safety	1.600042e-02
## Access.to.Basic.Knowledge	-5.945209e-04
## Access.to.Information.and.Communications	-1.353379e-02
## Health.and.Wellness	3.102756e-02
## Environmental.Quality	-3.422686e-03
## Personal.Rights	-6.866452e-02
## Personal.Freedom.and.Choice	-9.400970e-04
## Inclusiveness	6.155500e-03
## Access.to.Advanced.Education	1.859090e-03
## Deaths.from.infectious.diseases..deaths.100.000.	8.868860e-04
## Child.stunting....of.children.	1.263233e-02
## Maternal.mortality.rate..deaths.100.000.live.births.	2.372977e-04
## Child.mortality.rate..deaths.1.000.live.births.	5.089944e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	1.910271e-03
## Populations.using.unsafe.or.unimproved.water.sources....	-5.229892e-03
## Populations.using.unsafe.or.unimproved.sanitation....	1.203225e-03
## Access.to.electricity....of.pop..	-6.028285e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	-2.135175e-03
## Traffic.deaths..deaths.100.000.	5.432042e-04
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	2.829988e-03
## Access.to.quality.education..0.unequal..4.equal.	-4.629915e-02
## Women.with.no.schooling	-2.503571e-02
## Access.to.online.governance..0.low..1.high.	-3.369676e-02
## Media.censorship..0.frequent..4.rare.	3.769591e-01
## Internet.users....of.pop..	5.624737e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	1.373494e-03
## Access.to.quality.healthcare..0.unequal..4.equal.	6.315964e-03
## Access.to.essential.services...0.none..100.full.coverage.	-2.439930e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	1.806913e-03
## Life.expectancy.at.60..years.	9.336036e-03
## Greenhouse.gas.emissions..total.CO2.equivalents.	8.251297e-05
## Particulate.matter	2.644835e-03
## Biome.protection	2.601372e-03
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-2.095271e-03
## Political.rights..0.no.rights..40.full.rights.	2.990372e-02
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-1.607256e-02

## Freedom.of.religion..0.no.freedom..4.full.freedom.	6.380454e-01
## Access.to.justice..0.non.existent..1.observed.	-3.014971e-01
## Property.rights.for.women..0.no.right..5.full.rights.	5.554480e-01
## Vulnerable.employment....of.employees.	-6.319290e-04
## Early.marriage....of.women.	-1.622054e-02
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	1.185864e-01
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	1.136459e-02
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-1.524938e-01
## Discrimination.and.violence.against.minorities..0.low..10.high.	2.688702e-02
## Quality.weighted.universities..points.	-2.572252e-04
## Citable.documents	-2.225669e-03
## Women.with.advanced.education....	7.047181e-03
##	PC43
## Basic.Human.Needs	4.855180e-03
## Foundations.of.Wellbeing	-5.353041e-04
## Opportunity	1.390117e-02
## Nutrition.and.Basic.Medical.Care	-2.758371e-03
## Water.and.Sanitation	-5.759382e-04
## Shelter	1.042491e-02
## Personal.Safety	6.147364e-03
## Access.to.Basic.Knowledge	-4.816935e-03
## Access.to.Information.and.Communications	-5.039329e-03
## Health.and.Wellness	-8.294357e-03
## Environmental.Quality	1.149271e-02
## Personal.Rights	3.715547e-03
## Personal.Freedom.and.Choice	-1.760895e-02
## Inclusiveness	6.856617e-02
## Access.to.Advanced.Education	6.813282e-03
## Deaths.from.infectious.diseases..deaths.100.000.	3.926332e-05
## Child.stunting....of.children.	-1.158486e-03
## Maternal.mortality.rate..deaths.100.000.live.births.	6.348848e-05
## Child.mortality.rate..deaths.1.000.live.births.	-2.214651e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	8.296039e-05
## Populations.using.unsafe.or.unimproved.water.sources....	1.783486e-03
## Populations.using.unsafe.or.unimproved.sanitation....	4.464782e-03
## Access.to.electricity....of.pop..	-6.540012e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	-1.341744e-03
## Traffic.deaths..deaths.100.000.	3.403840e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-1.606002e-01
## Access.to.quality.education..0.unequal..4.equal.	1.597246e-01
## Women.with.no.schooling	-1.731883e-02
## Access.to.online.governance..0.low..1.high.	4.539921e-02
## Media.censorship..0.frequent..4.rare.	3.025928e-02
## Internet.users....of.pop..	3.207745e-04
## Mobile.telephone.subscriptions..subscriptions.100.people.	6.888384e-04
## Access.to.quality.healthcare..0.unequal..4.equal.	3.943715e-03
## Access.to.essential.services...0.none..100.full.coverage.	3.180631e-03
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	1.628865e-04
## Life.expectancy.at.60..years.	-1.462801e-02
## Greenhouse.gas.emissions..total.CO2.equivalents.	4.061764e-05
## Particulate.matter	1.789890e-03
## Biome.protection	-5.814684e-03
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	5.793800e-03
## Political.rights..0.no.rights..40.full.rights.	-5.792689e-04

## Freedom.of.expression..0.no.freedom..1.full.freedom.	-4.350506e-02
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-5.270175e-02
## Access.to.justice..0.non.existent..1.observed.	6.152719e-02
## Property.rights.for.women..0.no.right..5.full.rights.	-7.151505e-03
## Vulnerable.employment....of.employees.	-1.762678e-03
## Early.marriage....of.women.	-5.908927e-03
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-4.619134e-01
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-4.040754e-01
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-7.145306e-01
## Discrimination.and.violence.against.minorities..0.low..10.high.	1.509490e-01
## Quality.weighted.universities..points.	-5.709719e-04
## Citable.documents	-9.936705e-02
## Women.with.advanced.education....	-1.045470e-01
##	PC44
## Basic.Human.Needs	6.141368e-03
## Foundations.of.Wellbeing	-1.032425e-03
## Opportunity	-2.353320e-03
## Nutrition.and.Basic.Medical.Care	4.305382e-03
## Water.and.Sanitation	1.088740e-03
## Shelter	7.713761e-03
## Personal.Safety	5.779231e-03
## Access.to.Basic.Knowledge	7.594191e-04
## Access.to.Information.and.Communications	-1.512724e-03
## Health.and.Wellness	4.862975e-03
## Environmental.Quality	-1.166159e-02
## Personal.Rights	-1.499872e-04
## Personal.Freedom.and.Choice	1.907760e-05
## Inclusiveness	-1.088173e-02
## Access.to.Advanced.Education	-6.238562e-03
## Deaths.from.infectious.diseases..deaths.100.000.	-5.650786e-04
## Child.stunting....of.children.	2.268992e-04
## Maternal.mortality.rate..deaths.100.000.live.births.	4.362599e-04
## Child.mortality.rate..deaths.1.000.live.births.	2.293232e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	1.601755e-03
## Populations.using.unsafe.or.unimproved.water.sources....	-1.000981e-03
## Populations.using.unsafe.or.unimproved.sanitation....	1.112821e-03
## Access.to.electricity....of.pop..	-2.147305e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	2.255668e-03
## Traffic.deaths..deaths.100.000.	4.378259e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-8.823176e-01
## Access.to.quality.education..0.unequal..4.equal.	-4.912663e-02
## Women.with.no.schooling	4.568699e-02
## Access.to.online.governance..0.low..1.high.	-8.468622e-03
## Media.censorship..0.frequent..4.rare.	5.357427e-02
## Internet.users....of.pop..	1.384799e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	1.455172e-05
## Access.to.quality.healthcare..0.unequal..4.equal.	1.496447e-02
## Access.to.essential.services...0.none..100.full.coverage.	-4.634410e-04
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-1.917717e-04
## Life.expectancy.at.60..years.	-3.359522e-02
## Greenhouse.gas.emissions..total.CO2.equivalents.	1.946226e-05
## Particulate.matter	-4.531781e-03
## Biome.protection	7.445132e-03
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-7.691797e-03

## Political.rights..0.no.rights..40.full.rights.	4.674784e-03
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-2.904132e-01
## Freedom.of.religion..0.no.freedom..4.full.freedom.	9.708483e-02
## Access.to.justice..0.non.existent..1.observed.	2.767755e-01
## Property.rights.for.women..0.no.right..5.full.rights.	5.050749e-03
## Vulnerable.employment....of.employees.	-2.335127e-04
## Early.marriage....of.women.	-7.257332e-04
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	8.208523e-02
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	6.858243e-02
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	1.071210e-01
## Discrimination.and.violence.against.minorities..0.low..10.high.	-2.659321e-02
## Quality.weighted.universities..points.	-1.586276e-04
## Citable.documents	-1.688988e-02
## Women.with.advanced.education....	1.331916e-01
##	PC45
## Basic.Human.Needs	2.037487e-03
## Foundations.of.Wellbeing	-5.333562e-03
## Opportunity	7.371540e-04
## Nutrition.and.Basic.Medical.Care	3.611890e-03
## Water.and.Sanitation	-2.574826e-03
## Shelter	1.671482e-03
## Personal.Safety	1.717947e-04
## Access.to.Basic.Knowledge	-5.578068e-03
## Access.to.Information.and.Communications	1.967460e-04
## Health.and.Wellness	-6.804397e-03
## Environmental.Quality	3.927669e-04
## Personal.Rights	-1.143522e-03
## Personal.Freedom.and.Choice	3.264779e-03
## Inclusiveness	6.916869e-03
## Access.to.Advanced.Education	-1.113378e-02
## Deaths.from.infectious.diseases..deaths.100.000.	7.663261e-05
## Child.stunting....of.children.	2.837292e-03
## Maternal.mortality.rate..deaths.100.000.live.births.	2.177418e-04
## Child.mortality.rate..deaths.1.000.live.births.	-1.359863e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-4.013843e-04
## Populations.using.unsafe.or.unimproved.water.sources....	-5.834953e-04
## Populations.using.unsafe.or.unimproved.sanitation....	-1.569197e-04
## Access.to.electricity....of.pop..	-7.698619e-04
## Household.air.pollution.attributable.deaths..deaths.100.000.	1.393079e-03
## Traffic.deaths..deaths.100.000.	1.699828e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	9.928571e-02
## Access.to.quality.education..0.unequal..4.equal.	3.489757e-02
## Women.with.no.schooling	-2.287835e-01
## Access.to.online.governance..0.low..1.high.	2.739757e-01
## Media.censorship..0.frequent..4.rare.	-1.432661e-02
## Internet.users....of.pop..	4.657764e-04
## Mobile.telephone.subscriptions..subscriptions.100.people.	6.973067e-04
## Access.to.quality.healthcare..0.unequal..4.equal.	-1.332850e-02
## Access.to.essential.services...0.none..100.full.coverage.	-2.128154e-04
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-1.826814e-04
## Life.expectancy.at.60..years.	2.801534e-02
## Greenhouse.gas.emissions..total.CO2.equivalents.	-1.007998e-05
## Particulate.matter	8.352791e-04
## Biome.protection	1.906257e-03

## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-2.442417e-03
## Political.rights..0.no.rights..40.full.rights.	2.159642e-03
## Freedom.of.expression..0.no.freedom..1.full.freedom.	5.067681e-03
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-2.047826e-02
## Access.to.justice..0.non.existent..1.observed.	-5.296864e-03
## Property.rights.for.women..0.no.right..5.full.rights.	9.701959e-03
## Vulnerable.employment....of.employees.	1.161897e-03
## Early.marriage....of.women.	1.736581e-03
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-3.854206e-02
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-9.698205e-03
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-9.076753e-02
## Discrimination.and.violence.against.minorities..0.low..10.high.	1.895484e-02
## Quality.weighted.universities..points.	1.232930e-04
## Citable.documents	-8.843701e-03
## Women.with.advanced.education....	9.215075e-01
##	PC46
## Basic.Human.Needs	2.834836e-03
## Foundations.of.Wellbeing	6.100585e-03
## Opportunity	2.040181e-03
## Nutrition.and.Basic.Medical.Care	6.799251e-03
## Water.and.Sanitation	3.086195e-03
## Shelter	-9.274952e-04
## Personal.Safety	5.096017e-04
## Access.to.Basic.Knowledge	-4.818602e-03
## Access.to.Information.and.Communications	1.898695e-02
## Health.and.Wellness	5.606720e-03
## Environmental.Quality	-6.511302e-03
## Personal.Rights	9.033871e-03
## Personal.Freedom.and.Choice	-8.525972e-05
## Inclusiveness	2.730869e-03
## Access.to.Advanced.Education	-2.560495e-03
## Deaths.from.infectious.diseases..deaths.100.000.	-3.001489e-05
## Child.stunting....of.children.	5.257108e-03
## Maternal.mortality.rate..deaths.100.000.live.births.	-1.025513e-04
## Child.mortality.rate..deaths.1.000.live.births.	-1.406043e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	1.825942e-03
## Populations.using.unsafe.or.unimproved.water.sources....	1.205615e-03
## Populations.using.unsafe.or.unimproved.sanitation....	1.195161e-03
## Access.to.electricity....of.pop..	-2.027938e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	1.905365e-04
## Traffic.deaths..deaths.100.000.	2.920409e-03
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-1.916623e-01
## Access.to.quality.education..0.unequal..4.equal.	3.037372e-02
## Women.with.no.schooling	-2.284192e-01
## Access.to.online.governance..0.low..1.high.	-8.172805e-01
## Media.censorship..0.frequent..4.rare.	-1.468322e-01
## Internet.users....of.pop..	-4.195994e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	-1.849555e-03
## Access.to.quality.healthcare..0.unequal..4.equal.	-3.082689e-03
## Access.to.essential.services...0.none..100.full.coverage.	-5.275988e-03
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	3.974391e-04
## Life.expectancy.at.60..years.	1.280650e-02
## Greenhouse.gas.emissions..total.CO2.equivalents.	3.558523e-06
## Particulate.matter	-2.123916e-03

## Biome.protection	4.716579e-03
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-1.163087e-03
## Political.rights..0.no.rights..40.full.rights.	-4.035705e-03
## Freedom.of.expression..0.no.freedom..1.full.freedom.	3.050014e-01
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-6.065105e-02
## Access.to.justice..0.non.existent..1.observed.	-2.838906e-01
## Property.rights.for.women..0.no.right..5.full.rights.	-4.189137e-02
## Vulnerable.employment....of.employees.	1.464839e-03
## Early.marriage....of.women.	1.734665e-04
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-2.008458e-02
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-2.211185e-02
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-4.574110e-02
## Discrimination.and.violence.against.minorities..0.low..10.high.	2.211905e-03
## Quality.weighted.universities..points.	4.770116e-05
## Citable.documents	1.620986e-02
## Women.with.advanced.education....	1.933340e-01
##	PC47
## Basic.Human.Needs	1.113732e-03
## Foundations.of.Wellbeing	5.689212e-03
## Opportunity	-4.733947e-03
## Nutrition.and.Basic.Medical.Care	-8.705821e-03
## Water.and.Sanitation	-3.248404e-03
## Shelter	8.614114e-04
## Personal.Safety	-3.416191e-03
## Access.to.Basic.Knowledge	-1.739323e-03
## Access.to.Information.and.Communications	1.189613e-02
## Health.and.Wellness	-5.568746e-03
## Environmental.Quality	-7.527891e-03
## Personal.Rights	-1.552944e-02
## Personal.Freedom.and.Choice	-2.911823e-03
## Inclusiveness	7.211542e-03
## Access.to.Advanced.Education	2.036667e-03
## Deaths.from.infectious.diseases..deaths.100.000.	2.207064e-05
## Child.stunting....of.children.	-1.160046e-03
## Maternal.mortality.rate..deaths.100.000.live.births.	-2.261107e-04
## Child.mortality.rate..deaths.1.000.live.births.	-1.470967e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-4.732695e-04
## Populations.using.unsafe.or.unimproved.water.sources....	-9.505829e-04
## Populations.using.unsafe.or.unimproved.sanitation....	-9.302130e-04
## Access.to.electricity....of.pop..	-1.083727e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	-1.749804e-03
## Traffic.deaths..deaths.100.000.	-1.179302e-04
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	3.758504e-01
## Access.to.quality.education..0.unequal..4.equal.	8.504675e-03
## Women.with.no.schooling	1.499065e-01
## Access.to.online.governance..0.low..1.high.	-4.903412e-01
## Media.censorship..0.frequent..4.rare.	4.428656e-02
## Internet.users....of.pop..	-3.735482e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	-1.005597e-03
## Access.to.quality.healthcare..0.unequal..4.equal.	-6.221223e-03
## Access.to.essential.services...0.none..100.full.coverage.	7.489948e-04
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	1.942858e-04
## Life.expectancy.at.60..years.	1.016942e-02
## Greenhouse.gas.emissions..total.CO2.equivalents.	-7.553605e-06

## Particulate.matter	-1.497074e-03
## Biome.protection	5.800252e-03
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-3.575520e-03
## Political.rights..0.no.rights..40.full.rights.	7.313413e-03
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-5.425856e-01
## Freedom.of.religion..0.no.freedom..4.full.freedom.	9.237682e-02
## Access.to.justice..0.non.existent..1.observed.	5.080650e-01
## Property.rights.for.women..0.no.right..5.full.rights.	9.029952e-02
## Vulnerable.employment....of.employees.	-2.295457e-04
## Early.marriage....of.women.	-1.461685e-03
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-1.881897e-02
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-2.993117e-02
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-3.515733e-02
## Discrimination.and.violence.against.minorities..0.low..10.high.	1.530094e-02
## Quality.weighted.universities..points.	-3.324882e-05
## Citable.documents	7.970512e-04
## Women.with.advanced.education....	1.445484e-01
##	PC48
## Basic.Human.Needs	1.602102e-03
## Foundations.of.Wellbeing	-2.744150e-03
## Opportunity	-6.001362e-03
## Nutrition.and.Basic.Medical.Care	-1.192201e-03
## Water.and.Sanitation	-1.421975e-03
## Shelter	5.440750e-03
## Personal.Safety	-3.021252e-04
## Access.to.Basic.Knowledge	-7.131992e-03
## Access.to.Information.and.Communications	-9.710065e-04
## Health.and.Wellness	-1.639642e-04
## Environmental.Quality	-3.546562e-03
## Personal.Rights	-2.101585e-03
## Personal.Freedom.and.Choice	2.242085e-03
## Inclusiveness	-3.039878e-03
## Access.to.Advanced.Education	3.599020e-03
## Deaths.from.infectious.diseases..deaths.100.000.	-5.028654e-04
## Child.stunting....of.children.	-2.258028e-03
## Maternal.mortality.rate..deaths.100.000.live.births.	-1.520579e-04
## Child.mortality.rate..deaths.1.000.live.births.	1.992938e-03
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	8.326357e-05
## Populations.using.unsafe.or.unimproved.water.sources....	4.371549e-04
## Populations.using.unsafe.or.unimproved.sanitation....	5.685715e-04
## Access.to.electricity....of.pop..	-1.131552e-03
## Household.air.pollution.attributable.deaths..deaths.100.000.	4.121073e-03
## Traffic.deaths..deaths.100.000.	-9.506779e-04
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	4.278437e-02
## Access.to.quality.education..0.unequal..4.equal.	3.107498e-02
## Women.with.no.schooling	-9.303900e-01
## Access.to.online.governance..0.low..1.high.	5.573789e-02
## Media.censorship..0.frequent..4.rare.	2.525306e-02
## Internet.users....of.pop..	1.250775e-03
## Mobile.telephone.subscriptions..subscriptions.100.people.	4.620121e-04
## Access.to.quality.healthcare..0.unequal..4.equal.	6.856185e-03
## Access.to.essential.services...0.none..100.full.coverage.	1.950079e-03
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-3.543630e-04
## Life.expectancy.at.60..years.	-1.538881e-02

## Greenhouse.gas.emissions..total.CO2.equivalents.	-7.421409e-06
## Particulate.matter	-1.714094e-03
## Biome.protection	3.020441e-03
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-2.561060e-03
## Political.rights..0.no.rights..40.full.rights.	2.255792e-03
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-1.761346e-01
## Freedom.of.religion..0.no.freedom..4.full.freedom.	3.446272e-02
## Access.to.justice..0.non.existent..1.observed.	1.756574e-01
## Property.rights.for.women..0.no.right..5.full.rights.	-2.659036e-03
## Vulnerable.employment....of.employees.	2.330543e-04
## Early.marriage....of.women.	1.598133e-03
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	4.917183e-02
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	3.463123e-02
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	3.026074e-02
## Discrimination.and.violence.against.minorities..0.low..10.high.	-1.637513e-03
## Quality.weighted.universities..points.	6.939183e-07
## Citable.documents	1.090115e-02
## Women.with.advanced.education....	-2.441015e-01
##	PC49
## Basic.Human.Needs	5.568093e-01
## Foundations.of.Wellbeing	4.365147e-01
## Opportunity	5.185008e-01
## Nutrition.and.Basic.Medical.Care	-1.390783e-01
## Water.and.Sanitation	-1.731743e-01
## Shelter	-1.392824e-01
## Personal.Safety	-1.393012e-01
## Access.to.Basic.Knowledge	-1.091434e-01
## Access.to.Information.and.Communications	-1.092510e-01
## Health.and.Wellness	-1.146628e-01
## Environmental.Quality	-1.089781e-01
## Personal.Rights	-1.350692e-01
## Personal.Freedom.and.Choice	-1.295415e-01
## Inclusiveness	-1.298680e-01
## Access.to.Advanced.Education	-1.296760e-01
## Deaths.from.infectious.diseases..deaths.100.000.	-5.970747e-06
## Child.stunting....of.children.	2.500037e-05
## Maternal.mortality.rate..deaths.100.000.live.births.	7.137708e-09
## Child.mortality.rate..deaths.1.000.live.births.	-2.345355e-05
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-7.177344e-03
## Populations.using.unsafe.or.unimproved.water.sources....	-1.085660e-02
## Populations.using.unsafe.or.unimproved.sanitation....	-1.009565e-02
## Access.to.electricity....of.pop..	1.522446e-05
## Household.air.pollution.attributable.deaths..deaths.100.000.	2.345010e-05
## Traffic.deaths..deaths.100.000.	-3.296943e-06
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	1.239015e-03
## Access.to.quality.education..0.unequal..4.equal.	7.127315e-04
## Women.with.no.schooling	-2.347363e-03
## Access.to.online.governance..0.low..1.high.	3.332561e-03
## Media.censorship..0.frequent..4.rare.	3.836614e-06
## Internet.users....of.pop..	2.108301e-05
## Mobile.telephone.subscriptions..subscriptions.100.people.	1.585789e-05
## Access.to.quality.healthcare..0.unequal..4.equal.	2.105615e-02
## Access.to.essential.services...0.none..100.full.coverage.	1.628343e-03
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-1.403487e-04

## Life.expectancy.at.60..years.	8.413505e-03
## Greenhouse.gas.emissions..total.CO2.equivalents.	-1.805767e-07
## Particulate.matter	-3.404277e-05
## Biome.protection	-9.211211e-05
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	1.321266e-04
## Political.rights..0.no.rights..40.full.rights.	2.375288e-03
## Freedom.of.expression..0.no.freedom..1.full.freedom.	1.098194e-01
## Freedom.of.religion..0.no.freedom..4.full.freedom.	2.801854e-02
## Access.to.justice..0.non.existent..1.observed.	1.023215e-01
## Property.rights.for.women..0.no.right..5.full.rights.	2.695705e-02
## Vulnerable.employment....of.employees.	3.203489e-05
## Early.marriage....of.women.	-1.795115e-05
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	7.747203e-04
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	8.892850e-04
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-2.972148e-04
## Discrimination.and.violence.against.minorities..0.low..10.high.	-3.225851e-04
## Quality.weighted.universities..points.	5.680204e-06
## Citable.documents	1.161773e-03
## Women.with.advanced.education....	-1.866204e-03
##	PC50
## Basic.Human.Needs	3.439609e-01
## Foundations.of.Wellbeing	-7.270466e-01
## Opportunity	3.398577e-01
## Nutrition.and.Basic.Medical.Care	-8.609732e-02
## Water.and.Sanitation	1.142660e-01
## Shelter	-8.602796e-02
## Personal.Safety	-8.603945e-02
## Access.to.Basic.Knowledge	1.817523e-01
## Access.to.Information.and.Communications	1.818156e-01
## Health.and.Wellness	1.842327e-01
## Environmental.Quality	1.813964e-01
## Personal.Rights	-7.847972e-02
## Personal.Freedom.and.Choice	-8.491985e-02
## Inclusiveness	-8.498573e-02
## Access.to.Advanced.Education	-8.498042e-02
## Deaths.from.infectious.diseases..deaths.100.000.	9.003133e-07
## Child.stunting....of.children.	-2.218500e-05
## Maternal.mortality.rate..deaths.100.000.live.births.	-1.485867e-05
## Child.mortality.rate..deaths.1.000.live.births.	-3.192639e-05
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	4.257412e-02
## Populations.using.unsafe.or.unimproved.water.sources....	6.405904e-02
## Populations.using.unsafe.or.unimproved.sanitation....	5.941475e-02
## Access.to.electricity....of.pop..	-1.612812e-05
## Household.air.pollution.attributable.deaths..deaths.100.000.	-2.088102e-05
## Traffic.deaths..deaths.100.000.	1.940472e-05
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	1.308352e-03
## Access.to.quality.education..0.unequal..4.equal.	7.016712e-04
## Women.with.no.schooling	-1.413423e-03
## Access.to.online.governance..0.low..1.high.	-3.806661e-03
## Media.censorship..0.frequent..4.rare.	-2.051027e-05
## Internet.users....of.pop..	-2.248871e-05
## Mobile.telephone.subscriptions..subscriptions.100.people.	1.564948e-05
## Access.to.quality.healthcare..0.unequal..4.equal.	-1.069776e-02
## Access.to.essential.services...0.none..100.full.coverage.	-6.273688e-04

## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	6.087738e-05
## Life.expectancy.at.60..years.	-4.003006e-03
## Greenhouse.gas.emissions..total.CO2.equivalents.	-9.582898e-07
## Particulate.matter	-1.350264e-04
## Biome.protection	2.484013e-04
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-1.317088e-04
## Political.rights..0.no.rights..40.full.rights.	-2.789938e-03
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-1.264788e-01
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-3.300801e-02
## Access.to.justice..0.non.existent..1.observed.	-1.177756e-01
## Property.rights.for.women..0.no.right..5.full.rights.	-3.160817e-02
## Vulnerable.employment....of.employees.	4.846008e-05
## Early.marriage....of.women.	4.749414e-05
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-1.111753e-03
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	2.036701e-04
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	5.959004e-05
## Discrimination.and.violence.against.minorities..0.low..10.high.	-4.510335e-05
## Quality.weighted.universities..points.	-1.257162e-07
## Citable.documents	5.586436e-04
## Women.with.advanced.education....	-2.012207e-03
##	PC51
## Basic.Human.Needs	6.268041e-01
## Foundations.of.Wellbeing	-3.657933e-02
## Opportunity	-6.444265e-01
## Nutrition.and.Basic.Medical.Care	-1.567769e-01
## Water.and.Sanitation	-1.048724e-01
## Shelter	-1.566951e-01
## Personal.Safety	-1.567082e-01
## Access.to.Basic.Knowledge	9.147665e-03
## Access.to.Information.and.Communications	8.956527e-03
## Health.and.Wellness	6.277093e-03
## Environmental.Quality	9.030331e-03
## Personal.Rights	1.599462e-01
## Personal.Freedom.and.Choice	1.611242e-01
## Inclusiveness	1.609311e-01
## Access.to.Advanced.Education	1.611567e-01
## Deaths.from.infectious.diseases..deaths.100.000.	9.686317e-06
## Child.stunting....of.children.	-3.085067e-06
## Maternal.mortality.rate..deaths.100.000.live.births.	-6.572286e-06
## Child.mortality.rate..deaths.1.000.live.births.	-3.697298e-05
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	1.100697e-02
## Populations.using.unsafe.or.unimproved.water.sources....	1.659162e-02
## Populations.using.unsafe.or.unimproved.sanitation....	1.539555e-02
## Access.to.electricity....of.pop..	5.125583e-05
## Household.air.pollution.attributable.deaths..deaths.100.000.	3.539396e-05
## Traffic.deaths..deaths.100.000.	-2.584394e-05
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-1.506776e-03
## Access.to.quality.education..0.unequal..4.equal.	1.967167e-04
## Women.with.no.schooling	3.871203e-03
## Access.to.online.governance..0.low..1.high.	2.238399e-03
## Media.censorship..0.frequent..4.rare.	-5.564359e-04
## Internet.users....of.pop..	4.573974e-05
## Mobile.telephone.subscriptions..subscriptions.100.people.	2.689555e-05
## Access.to.quality.healthcare..0.unequal..4.equal.	1.095151e-02

## Access.to.essential.services...0.none..100.full.coverage.	7.733562e-04
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-7.174687e-05
## Life.expectancy.at.60..years.	4.587889e-03
## Greenhouse.gas.emissions..total.CO2.equivalents.	-1.987573e-07
## Particulate.matter	-6.883374e-05
## Biome.protection	5.425126e-05
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-6.197579e-06
## Political.rights..0.no.rights..40.full.rights.	6.027783e-04
## Freedom.of.expression..0.no.freedom..1.full.freedom.	2.774087e-02
## Freedom.of.religion..0.no.freedom..4.full.freedom.	5.657996e-03
## Access.to.justice..0.non.existent..1.observed.	2.159992e-02
## Property.rights.for.women..0.no.right..5.full.rights.	5.885858e-03
## Vulnerable.employment....of.employees.	4.897599e-06
## Early.marriage....of.women.	7.236073e-06
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	4.434669e-04
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	6.312165e-04
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	1.909360e-03
## Discrimination.and.violence.against.minorities..0.low..10.high.	-2.144966e-04
## Quality.weighted.universities..points.	2.000835e-07
## Citable.documents	6.724673e-04
## Women.with.advanced.education....	7.523671e-04
##	PC52
## Basic.Human.Needs	9.451388e-02
## Foundations.of.Wellbeing	1.741501e-01
## Opportunity	-1.918729e-02
## Nutrition.and.Basic.Medical.Care	-2.356367e-02
## Water.and.Sanitation	8.699360e-01
## Shelter	-2.372818e-02
## Personal.Safety	-2.368756e-02
## Access.to.Basic.Knowledge	-4.359626e-02
## Access.to.Information.and.Communications	-4.360193e-02
## Health.and.Wellness	-4.348315e-02
## Environmental.Quality	-4.330322e-02
## Personal.Rights	1.914520e-03
## Personal.Freedom.and.Choice	4.832263e-03
## Inclusiveness	4.710363e-03
## Access.to.Advanced.Education	4.781514e-03
## Deaths.from.infectious.diseases..deaths.100.000.	5.529591e-06
## Child.stunting....of.children.	-4.566681e-05
## Maternal.mortality.rate..deaths.100.000.live.births.	1.531435e-06
## Child.mortality.rate..deaths.1.000.live.births.	-1.517410e-05
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	1.900182e-01
## Populations.using.unsafe.or.unimproved.water.sources....	2.857592e-01
## Populations.using.unsafe.or.unimproved.sanitation....	2.652577e-01
## Access.to.electricity....of.pop..	4.965226e-05
## Household.air.pollution.attributable.deaths..deaths.100.000.	-1.760724e-05
## Traffic.deaths..deaths.100.000.	-5.770774e-06
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	3.828010e-03
## Access.to.quality.education..0.unequal..4.equal.	-4.388695e-04
## Women.with.no.schooling	-4.571820e-06
## Access.to.online.governance..0.low..1.high.	3.403595e-03
## Media.censorship..0.frequent..4.rare.	8.578920e-04
## Internet.users....of.pop..	-3.519208e-05
## Mobile.telephone.subscriptions..subscriptions.100.people.	5.189644e-06

## Access.to.quality.healthcare..0.unequal..4.equal.	-1.441964e-05
## Access.to.essential.services...0.none..100.full.coverage.	6.882506e-05
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	1.383944e-07
## Life.expectancy.at.60..years.	-2.284851e-04
## Greenhouse.gas.emissions..total.CO2.equivalents.	1.028986e-07
## Particulate.matter	8.668764e-05
## Biome.protection	-1.792608e-04
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	7.264812e-05
## Political.rights..0.no.rights..40.full.rights.	1.194573e-03
## Freedom.of.expression..0.no.freedom..1.full.freedom.	5.234969e-02
## Freedom.of.religion..0.no.freedom..4.full.freedom.	1.480463e-02
## Access.to.justice..0.non.existent..1.observed.	5.440177e-02
## Property.rights.for.women..0.no.right..5.full.rights.	1.344803e-02
## Vulnerable.employment....of.employees.	-4.569192e-06
## Early.marriage....of.women.	-1.506295e-05
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-4.939146e-04
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	1.271864e-03
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	1.033325e-03
## Discrimination.and.violence.against.minorities..0.low..10.high.	-1.497326e-04
## Quality.weighted.universities..points.	5.547347e-06
## Citable.documents	-1.914156e-04
## Women.with.advanced.education....	2.061326e-03
##	PC53
## Basic.Human.Needs	5.684751e-02
## Foundations.of.Wellbeing	2.181051e-01
## Opportunity	2.212126e-03
## Nutrition.and.Basic.Medical.Care	-1.416206e-02
## Water.and.Sanitation	1.737637e-02
## Shelter	-1.425721e-02
## Personal.Safety	-1.419597e-02
## Access.to.Basic.Knowledge	-5.450181e-02
## Access.to.Information.and.Communications	-5.449524e-02
## Health.and.Wellness	-5.206417e-02
## Environmental.Quality	-5.462727e-02
## Personal.Rights	3.391834e-02
## Personal.Freedom.and.Choice	-4.624860e-04
## Inclusiveness	-6.895650e-04
## Access.to.Advanced.Education	-5.551883e-04
## Deaths.from.infectious.diseases..deaths.100.000.	2.382157e-06
## Child.stunting....of.children.	7.651017e-05
## Maternal.mortality.rate..deaths.100.000.live.births.	8.202780e-06
## Child.mortality.rate..deaths.1.000.live.births.	7.608833e-06
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	6.680328e-03
## Populations.using.unsafe.or.unimproved.water.sources....	1.009637e-02
## Populations.using.unsafe.or.unimproved.sanitation....	9.353488e-03
## Access.to.electricity....of.pop..	-3.568044e-07
## Household.air.pollution.attributable.deaths..deaths.100.000.	-2.545895e-05
## Traffic.deaths..deaths.100.000.	3.716908e-05
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-4.049711e-03
## Access.to.quality.education..0.unequal..4.equal.	-8.012602e-05
## Women.with.no.schooling	-1.953081e-03
## Access.to.online.governance..0.low..1.high.	3.365094e-04
## Media.censorship..0.frequent..4.rare.	-7.856383e-04
## Internet.users....of.pop..	-3.461138e-05

## Mobile.telephone.subscriptions..subscriptions.100.people.	-5.736428e-06
## Access.to.quality.healthcare..0.unequal..4.equal.	-8.848329e-03
## Access.to.essential.services...0.none..100.full.coverage.	-6.064283e-04
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	5.846029e-05
## Life.expectancy.at.60..years.	-4.034346e-03
## Greenhouse.gas.emissions..total.CO2.equivalents.	-1.596249e-06
## Particulate.matter	-2.010093e-05
## Biome.protection	3.002086e-06
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-1.915969e-05
## Political.rights..0.no.rights..40.full.rights.	-1.457207e-02
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-6.712512e-01
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-1.758585e-01
## Access.to.justice..0.non.existent..1.observed.	-6.527247e-01
## Property.rights.for.women..0.no.right..5.full.rights.	-1.654693e-01
## Vulnerable.employment....of.employees.	4.520625e-05
## Early.marriage....of.women.	7.698090e-05
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	7.098251e-04
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	3.540521e-04
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	4.229863e-04
## Discrimination.and.violence.against.minorities..0.low..10.high.	-3.910009e-04
## Quality.weighted.universities..points.	8.195394e-06
## Citable.documents	-7.005208e-05
## Women.with.advanced.education....	-1.632361e-03
##	PC54
## Basic.Human.Needs	1.607703e-02
## Foundations.of.Wellbeing	6.308542e-02
## Opportunity	2.493768e-04
## Nutrition.and.Basic.Medical.Care	-4.006506e-03
## Water.and.Sanitation	-6.925930e-03
## Shelter	-4.020259e-03
## Personal.Safety	-4.018953e-03
## Access.to.Basic.Knowledge	-1.578110e-02
## Access.to.Information.and.Communications	-1.578853e-02
## Health.and.Wellness	2.193436e-01
## Environmental.Quality	-1.589258e-02
## Personal.Rights	-6.101956e-04
## Personal.Freedom.and.Choice	-6.133174e-05
## Inclusiveness	-6.728090e-05
## Access.to.Advanced.Education	-6.560579e-05
## Deaths.from.infectious.diseases..deaths.100.000.	-1.559767e-06
## Child.stunting....of.children.	-8.768513e-06
## Maternal.mortality.rate..deaths.100.000.live.births.	8.333316e-07
## Child.mortality.rate..deaths.1.000.live.births.	-5.936457e-07
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-6.107363e-04
## Populations.using.unsafe.or.unimproved.water.sources....	-9.285890e-04
## Populations.using.unsafe.or.unimproved.sanitation....	-8.660836e-04
## Access.to.electricity....of.pop..	1.180984e-05
## Household.air.pollution.attributable.deaths..deaths.100.000.	1.642139e-05
## Traffic.deaths..deaths.100.000.	8.251193e-06
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-4.724471e-04
## Access.to.quality.education..0.unequal..4.equal.	7.364208e-05
## Women.with.no.schooling	-8.057070e-04
## Access.to.online.governance..0.low..1.high.	5.461797e-04
## Media.censorship..0.frequent..4.rare.	8.697694e-05

```
## Internet.users....of.pop.. -8.726517e-06
## Mobile.telephone.subscriptions..subscriptions.100.people. -3.161575e-06
## Access.to.quality.healthcare..0.unequal..4.equal. -9.008203e-01
## Access.to.essential.services...0.none..100.full.coverage. -6.774316e-02
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. 5.579172e-03
## Life.expectancy.at.60..years. -3.611785e-01
## Greenhouse.gas.emissions..total.CO2.equivalents. 1.359178e-08
## Particulate.matter -4.779523e-05
## Biome.protection 9.016613e-05
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. -4.956183e-05
## Political.rights..0.no.rights..40.full.rights. 2.276688e-04
## Freedom.of.expression..0.no.freedom..1.full.freedom. 1.139794e-02
## Freedom.of.religion..0.no.freedom..4.full.freedom. 2.884233e-03
## Access.to.justice..0.non.existent..1.observed. 1.025052e-02
## Property.rights.for.women..0.no.right..5.full.rights. 2.854762e-03
## Vulnerable.employment....of.employees. -9.080317e-06
## Early.marriage....of.women. -4.087127e-06
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power. -1.842446e-04
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power. -4.853865e-05
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power. -1.365502e-04
## Discrimination.and.violence.against.minorities..0.low..10.high. 4.438714e-05
## Quality.weighted.universities..points. -1.801514e-06
## Citable.documents 6.100030e-05
## Women.with.advanced.education.... -5.026626e-04
```

```
# sdev gives the square root of eigenvalues
```

```
# rotation: coefficients of phi
```

```
# show the first 5 principal components for the first 10 countries
```

```
# the values returned are the score based on the respective principal component direction (ie. z values)
```

```
pr.out.ns$x[1:10, 1:5]
```

```
##          PC1      PC2      PC3      PC4      PC5
## Afghanistan -265.25384 -390.83750 456.670250 -33.741841 -83.09195344
## Albania      -272.86418  214.22197 -10.055515  37.258952 -4.30853920
## Algeria       -53.69968  179.80131 -21.476454  32.903306 -44.20467980
## Angola       -196.90725 -283.54366 -112.124839  18.211527  57.41501223
## Argentina      66.03079  144.74208   2.404084 -13.798759   9.63937171
## Armenia      -273.43432  142.44688  107.236025  19.600836  13.68966614
## Australia     283.24767  279.32925 -92.232486 -59.981411 -3.28515969
## Austria      -194.70256  283.79781 -69.389567  -9.650574 -0.08005692
## Azerbaijan   -216.51431   25.33709  232.316746  10.137781  49.82921490
## Bahrain     -248.52206  223.70665 -37.469766  50.431355 -8.25605998
```

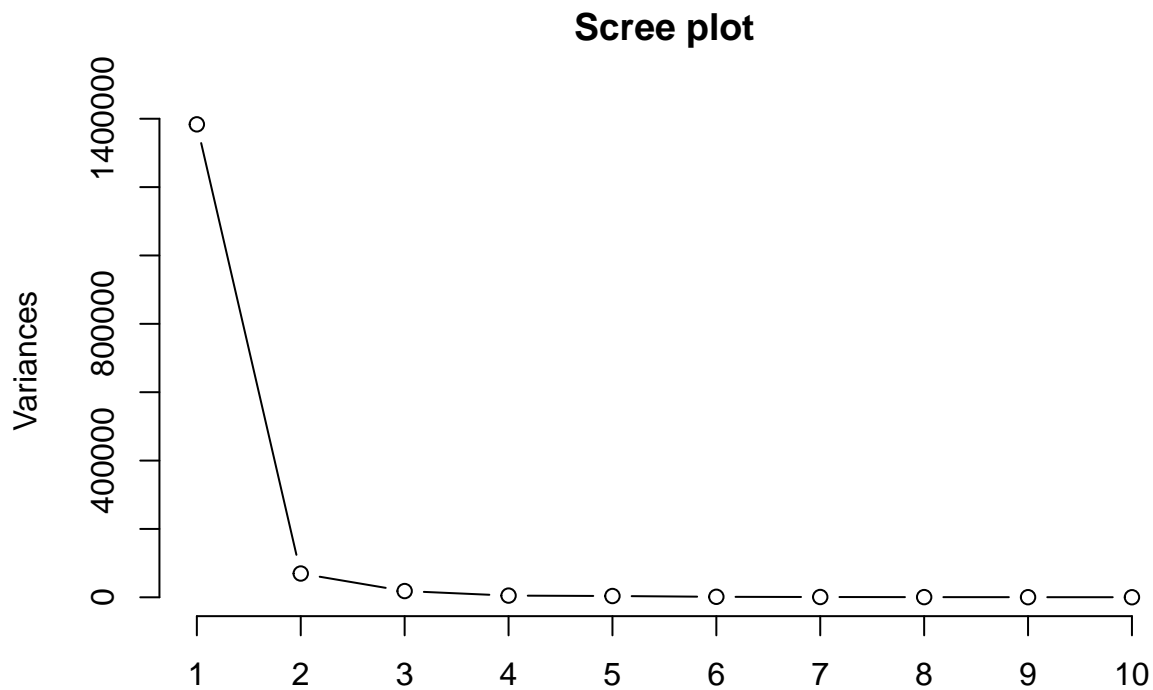
```
# instead of having the exact x1 x2 values up to x54, we obtain the z values, where z = phi * x
```

```
# plot scree
```

```
# shows how much of the variation is explained by each principal component
```

```
# type = "l" -line plot
```

```
plot(pr.out.ns, type = "l", main = "Scree plot")
```

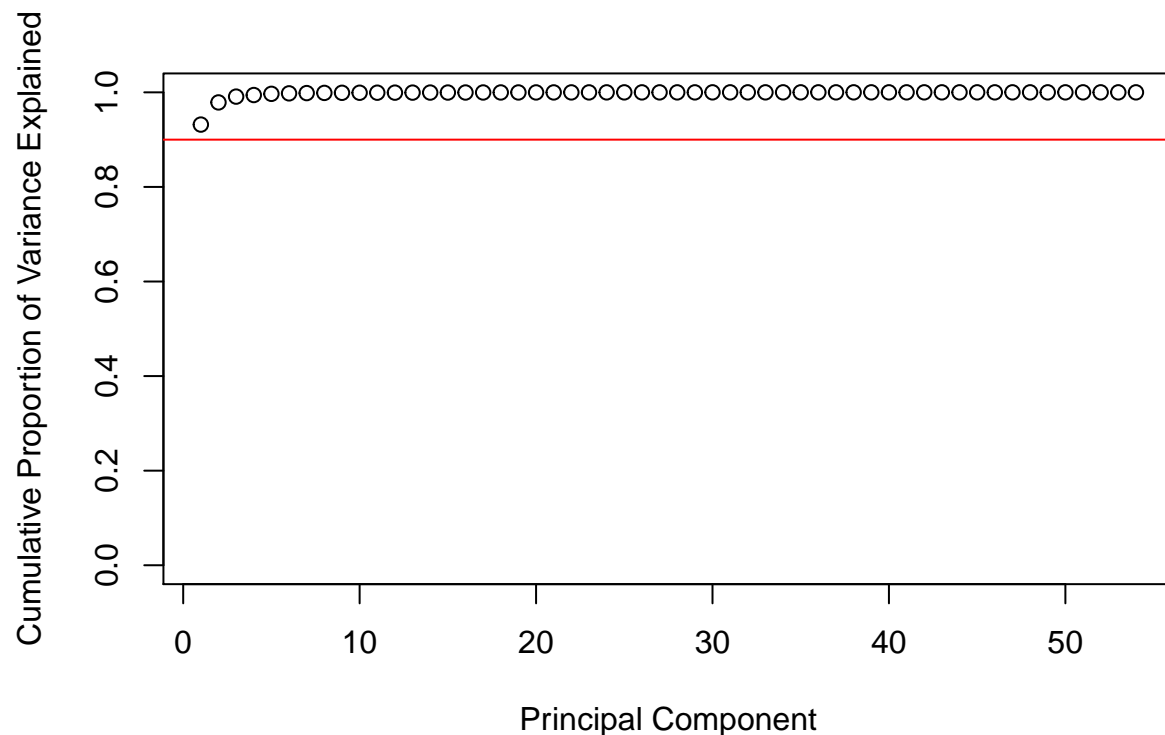


```
# as observed, first variance is extremely huge, then becomes negligible
# the first principal component is relevant for most of the variables already
```

```
# Calculate proportion of variance explained
# plot cumulative prop
pr.var.ns = pr.out.ns$sdev^2
```

```
# pve = proportion of variance explained
pve.ns = pr.var.ns / sum(pr.var.ns)
```

```
plot(cumsum(pve.ns), xlab = "Principal Component", ylab = "Cumulative Proportion of Variance Explained"
     ylim = c(0,1), type = 'b') + abline(h = 0.9, col = "red") #abline refers to the threshold
```



```
## integer(0)
```

```
# first PC explanation  
pve.ns[1]
```

```
## [1] 0.9318276
```

From the ‘Scree plot’ and the ‘Cumulative Proportion plot’: The first PC actually explains 93% of the variability.

Let us look at the loadings for each and the PCA scores for the countries. We look at the coefficients of the top and bottom 5. Also we also look at the top and bottom scoring countries for each PC.

- loadings: important characteristics of principal component
- positive and negative sign indicates direction
- large absolute values suggests that it is important (values are relative)

```
#pr.out.ns$x  
#pr.out.ns$rotation  
  
# observe the first two principal component  
sp.pc <- data.frame(pr.out.ns$x[, 1:2])
```

```
# best and worst performing country based on each principal component
# -ve sign to rank from the best to worst (decreasing order)
sp.pc[order(- sp.pc$PC1), ]
```

##	PC1	PC2
## China	12715.73833	-224.084837
## United States	6282.20386	80.926516
## India	2694.24724	-210.921427
## Russia	1900.77590	34.519800
## Japan	1031.41589	279.281716
## Brazil	841.14835	112.938222
## Germany	648.23490	250.068165
## Iran	638.46255	172.996609
## Indonesia	599.87402	-77.625476
## Korea, Republic of	471.82937	275.320488
## Mexico	466.55616	174.753139
## Canada	446.13532	259.120589
## Saudi Arabia	392.47856	164.209391
## Australia	283.24767	279.329249
## Turkey	255.40737	188.122004
## South Africa	240.05133	-153.646441
## United Kingdom	222.11240	267.076098
## France	205.94631	275.111887
## Thailand	192.36828	156.534439
## Pakistan	163.66084	-238.522599
## Italy	161.23905	288.268268
## Poland	138.12070	191.773373
## Malaysia	89.11037	77.651743
## Vietnam	77.43072	99.160115
## Spain	70.86372	282.589981
## Kazakhstan	70.75644	76.392873
## Argentina	66.03079	144.742080
## Ukraine	39.47413	22.023408
## Nigeria	38.79623	-243.319176
## Egypt	24.38173	-7.128752
## Iraq	-20.43164	192.391333
## United Arab Emirates	-25.50791	55.240391
## Uzbekistan	-45.31308	-3.137003
## Algeria	-53.69968	179.801307
## Philippines	-59.26637	-73.798376
## Qatar	-76.52867	230.829506
## Netherlands	-83.26209	268.190471
## Colombia	-113.12425	226.639576
## Bangladesh	-130.87205	-32.446159
## Czechia	-149.70140	230.929311
## Kuwait	-152.97193	257.944200
## Myanmar	-162.45208	-105.173530
## Belgium	-163.28108	262.653469
## Ethiopia	-165.21678	-158.290061
## Chile	-168.36487	239.899707
## Romania	-168.39334	139.703844
## Morocco	-171.89152	45.540860
## Peru	-172.38936	189.361537

## Turkmenistan	-180.31018	8.549557
## Singapore	-181.43681	275.495238
## Sudan	-181.68687	-62.184580
## Belarus	-184.28182	128.460145
## Greece	-184.78213	243.313733
## Oman	-186.81313	175.894008
## Israel	-192.81018	280.659382
## Austria	-194.70256	283.797814
## Bolivia	-195.74038	45.085541
## Trinidad and Tobago	-196.34760	104.469076
## Angola	-196.90725	-283.543655
## New Zealand	-198.61549	274.921715
## Tanzania	-201.76679	-202.147784
## Portugal	-208.13790	257.386215
## Serbia	-208.24812	143.790587
## Korea, Democratic Republic of	-212.81165	-29.925455
## Azerbaijan	-216.51431	25.337094
## Ireland	-217.69445	278.606083
## Hungary	-218.74167	161.293399
## Ecuador	-219.22183	174.308090
## Sweden	-222.41506	297.838507
## Finland	-222.92749	290.196502
## Bulgaria	-223.32967	116.955729
## Kenya	-225.40628	-260.682963
## Norway	-226.15896	288.449675
## Chad	-228.17485	-509.077056
## Mali	-228.84355	-326.876399
## Paraguay	-229.97204	134.006578
## Switzerland	-230.61371	310.311615
## Denmark	-230.80497	266.337126
## Cuba	-234.89518	157.724590
## Slovakia	-239.12546	198.793809
## Mongolia	-243.51569	-27.642220
## Tunisia	-244.78074	203.534059
## Sri Lanka	-245.31394	183.739864
## Uganda	-246.07607	-196.681974
## Congo, Democratic Republic of	-246.27427	-418.928499
## Uruguay	-246.80450	182.216815
## South Sudan	-246.85230	-520.590178
## Bahrain	-248.52206	223.706653
## Nepal	-249.91987	-96.488631
## Guatemala	-253.13632	76.208361
## Jordan	-253.80581	218.424139
## Cambodia	-254.66191	-41.470013
## Bosnia and Herzegovina	-255.49848	174.256448
## Dominican Republic	-255.94304	71.246626
## Croatia	-256.22490	223.828459
## Cameroon	-256.28320	-353.379415
## Zambia	-256.42849	-270.298557
## Lebanon	-259.83607	168.172710
## Estonia	-260.29401	225.966776
## Ghana	-261.63529	-193.759993
## Lithuania	-262.40386	166.456236
## Mozambique	-262.45109	-510.345339

## Slovenia	-263.67014	265.913371
## Costa Rica	-264.32451	242.548418
## Burkina Faso	-264.69783	-344.153855
## Afghanistan	-265.25384	-390.837505
## Nicaragua	-265.38496	195.080738
## Madagascar	-265.86487	-364.013893
## Honduras	-266.46515	98.762145
## Kyrgyzstan	-266.95508	84.745065
## Panama	-268.14810	201.878639
## Georgia	-268.27120	78.370961
## Côte d'Ivoire	-269.15662	-337.679632
## Senegal	-269.83728	-204.285818
## Moldova	-270.54982	96.454035
## Republic of North Macedonia	-271.03120	161.789286
## Luxembourg	-271.29064	278.184286
## El Salvador	-271.95929	154.277037
## Cyprus	-271.98025	272.597112
## Latvia	-272.22742	150.395572
## Albania	-272.86418	214.221970
## Botswana	-273.07291	-79.429941
## Niger	-273.32012	-390.986311
## Armenia	-273.43432	142.446876
## Zimbabwe	-275.82299	-410.728204
## Iceland	-276.03257	293.674492
## Jamaica	-276.27521	97.814527
## Tajikistan	-276.48473	11.105778
## Somalia	-276.53401	-536.833110
## Mauritius	-276.82227	135.981090
## Guinea	-277.41592	-523.123267
## Namibia	-278.89563	-134.056369
## Laos	-279.23050	-134.374846
## Montenegro	-279.41419	169.737398
## Malta	-279.79999	263.507544
## Benin	-280.87983	-273.977658
## Haiti	-280.97434	-280.778963
## Maldives	-282.35059	207.311776
## Equatorial Guinea	-282.54931	-203.422718
## Gabon	-283.28314	-132.438235
## Barbados	-283.56765	153.951829
## Suriname	-284.28563	55.791400
## Mauritania	-284.34434	-187.534654
## Cabo Verde	-284.93899	123.807986
## Togo	-285.20558	-302.086971
## Rwanda	-285.31668	-122.507941
## Bhutan	-285.71580	48.867752
## Malawi	-286.06753	-298.271133
## Guyana	-286.35826	-49.137802
## Timor-Leste	-288.83289	-93.389114
## Congo, Republic of	-288.94466	-433.429982
## Fiji	-289.22263	-135.707429
## Papua New Guinea	-293.23348	-729.021983
## Djibouti	-294.83677	-251.142178
## Burundi	-295.34303	-424.935155
## Gambia, The	-297.11327	-343.797171

## Eswatini	-297.35006	-385.102179
## Sierra Leone	-297.62373	-512.828794
## Liberia	-297.71492	-396.234721
## Eritrea	-298.49814	-547.004346
## Guinea-Bissau	-300.05774	-468.330833
## Lesotho	-303.46737	-661.278723
## Central African Republic	-307.96607	-996.013717

```
sp.pc[order(- sp.pc$PC2), ]
```

##	PC1	PC2
## Switzerland	-230.61371	310.311615
## Sweden	-222.41506	297.838507
## Iceland	-276.03257	293.674492
## Finland	-222.92749	290.196502
## Norway	-226.15896	288.449675
## Italy	161.23905	288.268268
## Austria	-194.70256	283.797814
## Spain	70.86372	282.589981
## Israel	-192.81018	280.659382
## Australia	283.24767	279.329249
## Japan	1031.41589	279.281716
## Ireland	-217.69445	278.606083
## Luxembourg	-271.29064	278.184286
## Singapore	-181.43681	275.495238
## Korea, Republic of	471.82937	275.320488
## France	205.94631	275.111887
## New Zealand	-198.61549	274.921715
## Cyprus	-271.98025	272.597112
## Netherlands	-83.26209	268.190471
## United Kingdom	222.11240	267.076098
## Denmark	-230.80497	266.337126
## Slovenia	-263.67014	265.913371
## Malta	-279.79999	263.507544
## Belgium	-163.28108	262.653469
## Canada	446.13532	259.120589
## Kuwait	-152.97193	257.944200
## Portugal	-208.13790	257.386215
## Germany	648.23490	250.068165
## Greece	-184.78213	243.313733
## Costa Rica	-264.32451	242.548418
## Chile	-168.36487	239.899707
## Czechia	-149.70140	230.929311
## Qatar	-76.52867	230.829506
## Colombia	-113.12425	226.639576
## Estonia	-260.29401	225.966776
## Croatia	-256.22490	223.828459
## Bahrain	-248.52206	223.706653
## Jordan	-253.80581	218.424139
## Albania	-272.86418	214.221970
## Maldives	-282.35059	207.311776
## Tunisia	-244.78074	203.534059
## Panama	-268.14810	201.878639
## Slovakia	-239.12546	198.793809

## Nicaragua	-265.38496	195.080738
## Iraq	-20.43164	192.391333
## Poland	138.12070	191.773373
## Peru	-172.38936	189.361537
## Turkey	255.40737	188.122004
## Sri Lanka	-245.31394	183.739864
## Uruguay	-246.80450	182.216815
## Algeria	-53.69968	179.801307
## Oman	-186.81313	175.894008
## Mexico	466.55616	174.753139
## Ecuador	-219.22183	174.308090
## Bosnia and Herzegovina	-255.49848	174.256448
## Iran	638.46255	172.996609
## Montenegro	-279.41419	169.737398
## Lebanon	-259.83607	168.172710
## Lithuania	-262.40386	166.456236
## Saudi Arabia	392.47856	164.209391
## Republic of North Macedonia	-271.03120	161.789286
## Hungary	-218.74167	161.293399
## Cuba	-234.89518	157.724590
## Thailand	192.36828	156.534439
## El Salvador	-271.95929	154.277037
## Barbados	-283.56765	153.951829
## Latvia	-272.22742	150.395572
## Argentina	66.03079	144.742080
## Serbia	-208.24812	143.790587
## Armenia	-273.43432	142.446876
## Romania	-168.39334	139.703844
## Mauritius	-276.82227	135.981090
## Paraguay	-229.97204	134.006578
## Belarus	-184.28182	128.460145
## Cabo Verde	-284.93899	123.807986
## Bulgaria	-223.32967	116.955729
## Brazil	841.14835	112.938222
## Trinidad and Tobago	-196.34760	104.469076
## Vietnam	77.43072	99.160115
## Honduras	-266.46515	98.762145
## Jamaica	-276.27521	97.814527
## Moldova	-270.54982	96.454035
## Kyrgyzstan	-266.95508	84.745065
## United States	6282.20386	80.926516
## Georgia	-268.27120	78.370961
## Malaysia	89.11037	77.651743
## Kazakhstan	70.75644	76.392873
## Guatemala	-253.13632	76.208361
## Dominican Republic	-255.94304	71.246626
## Suriname	-284.28563	55.791400
## United Arab Emirates	-25.50791	55.240391
## Bhutan	-285.71580	48.867752
## Morocco	-171.89152	45.540860
## Bolivia	-195.74038	45.085541
## Russia	1900.77590	34.519800
## Azerbaijan	-216.51431	25.337094
## Ukraine	39.47413	22.023408

## Tajikistan	-276.48473	11.105778
## Turkmenistan	-180.31018	8.549557
## Uzbekistan	-45.31308	-3.137003
## Egypt	24.38173	-7.128752
## Mongolia	-243.51569	-27.642220
## Korea, Democratic Republic of	-212.81165	-29.925455
## Bangladesh	-130.87205	-32.446159
## Cambodia	-254.66191	-41.470013
## Guyana	-286.35826	-49.137802
## Sudan	-181.68687	-62.184580
## Philippines	-59.26637	-73.798376
## Indonesia	599.87402	-77.625476
## Botswana	-273.07291	-79.429941
## Timor-Leste	-288.83289	-93.389114
## Nepal	-249.91987	-96.488631
## Myanmar	-162.45208	-105.173530
## Rwanda	-285.31668	-122.507941
## Gabon	-283.28314	-132.438235
## Namibia	-278.89563	-134.056369
## Laos	-279.23050	-134.374846
## Fiji	-289.22263	-135.707429
## South Africa	240.05133	-153.646441
## Ethiopia	-165.21678	-158.290061
## Mauritania	-284.34434	-187.534654
## Ghana	-261.63529	-193.759993
## Uganda	-246.07607	-196.681974
## Tanzania	-201.76679	-202.147784
## Equatorial Guinea	-282.54931	-203.422718
## Senegal	-269.83728	-204.285818
## India	2694.24724	-210.921427
## China	12715.73833	-224.084837
## Pakistan	163.66084	-238.522599
## Nigeria	38.79623	-243.319176
## Djibouti	-294.83677	-251.142178
## Kenya	-225.40628	-260.682963
## Zambia	-256.42849	-270.298557
## Benin	-280.87983	-273.977658
## Haiti	-280.97434	-280.778963
## Angola	-196.90725	-283.543655
## Malawi	-286.06753	-298.271133
## Togo	-285.20558	-302.086971
## Mali	-228.84355	-326.876399
## Côte d'Ivoire	-269.15662	-337.679632
## Gambia, The	-297.11327	-343.797171
## Burkina Faso	-264.69783	-344.153855
## Cameroon	-256.28320	-353.379415
## Madagascar	-265.86487	-364.013893
## Eswatini	-297.35006	-385.102179
## Afghanistan	-265.25384	-390.837505
## Niger	-273.32012	-390.986311
## Liberia	-297.71492	-396.234721
## Zimbabwe	-275.82299	-410.728204
## Congo, Democratic Republic of	-246.27427	-418.928499
## Burundi	-295.34303	-424.935155

```
## Congo, Republic of -288.94466 -433.429982
## Guinea-Bissau -300.05774 -468.330833
## Chad -228.17485 -509.077056
## Mozambique -262.45109 -510.345339
## Sierra Leone -297.62373 -512.828794
## South Sudan -246.85230 -520.590178
## Guinea -277.41592 -523.123267
## Somalia -276.53401 -536.833110
## Eritrea -298.49814 -547.004346
## Lesotho -303.46737 -661.278723
## Papua New Guinea -293.23348 -729.021983
## Central African Republic -307.96607 -996.013717
```

```
dim(spi2020)
```

```
## [1] 163 54
```

```
# weights of the variables in each principal component
co.sp.pc <- data.frame(pr.out.ns$rotation[, 1:2])

# highest and lowest weights for principal component 1 and 2 respectively
# look at the top 5 and bottom 5 (we are looking at absolute values)
co.sp.pc[order(- co.sp.pc[, 1]), ][c(1:5, 50:54), ]
```

```
## PC1
## Greenhouse.gas.emissions..total.CO2.equivalents. 0.997218658
## Quality.weighted.universities..points. 0.068416538
## Access.to.Advanced.Education 0.003928029
## Access.to.electricity....of.pop.. 0.002955186
## Water.and.Sanitation 0.002734690
## Household.air.pollution.attributable.deaths..deaths.100.000. -0.003362983
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop.. -0.003571672
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. -0.011042437
## Maternal.mortality.rate..deaths.100.000.live.births. -0.014093138
## Deaths.from.infectious.diseases..deaths.100.000. -0.020127661
## PC2
## Greenhouse.gas.emissions..total.CO2.equivalents. -0.03355624
## Quality.weighted.universities..points. 0.07049700
## Access.to.Advanced.Education 0.05931520
## Access.to.electricity....of.pop.. 0.08221786
## Water.and.Sanitation 0.08931390
## Household.air.pollution.attributable.deaths..deaths.100.000. -0.15012659
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop.. -0.13536896
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. -0.45967973
## Maternal.mortality.rate..deaths.100.000.live.births. -0.44016285
## Deaths.from.infectious.diseases..deaths.100.000. -0.65918710
```

```
co.sp.pc[order(- co.sp.pc[, 2]), ][c(1:5, 50:54), ]
```

```
## PC1
## Internet.users....of.pop.. 0.002476401
## Water.and.Sanitation 0.002734690
```

```
## Access.to.electricity....of.pop.. 0.002955186
## Mobile.telephone.subscriptions..subscriptions.100.people. 0.002327204
## Shelter 0.002214817
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop.. -0.003571672
## Household.air.pollution.attributable.deaths..deaths.100.000. -0.003362983
## Maternal.mortality.rate..deaths.100.000.live.births. -0.014093138
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. -0.011042437
## Deaths.from.infectious.diseases..deaths.100.000. -0.020127661
## PC2
## Internet.users....of.pop.. 0.09372095
## Water.and.Sanitation 0.08931390
## Access.to.electricity....of.pop.. 0.08221786
## Mobile.telephone.subscriptions..subscriptions.100.people. 0.07987445
## Shelter 0.07980050
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop.. -0.13536896
## Household.air.pollution.attributable.deaths..deaths.100.000. -0.15012659
## Maternal.mortality.rate..deaths.100.000.live.births. -0.44016285
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. -0.45967973
## Deaths.from.infectious.diseases..deaths.100.000. -0.65918710
```

We observe that PC1 explains 93% of the variation and moreover PC1 is dominated by Green house gas emission. So countries like China, US, India, Brazil are clustered and dominate together. On the other hand PC2 seems dominated by mortality rates from infectious disease, child birth and other premature deaths.

```
Stats[1:5,]
```

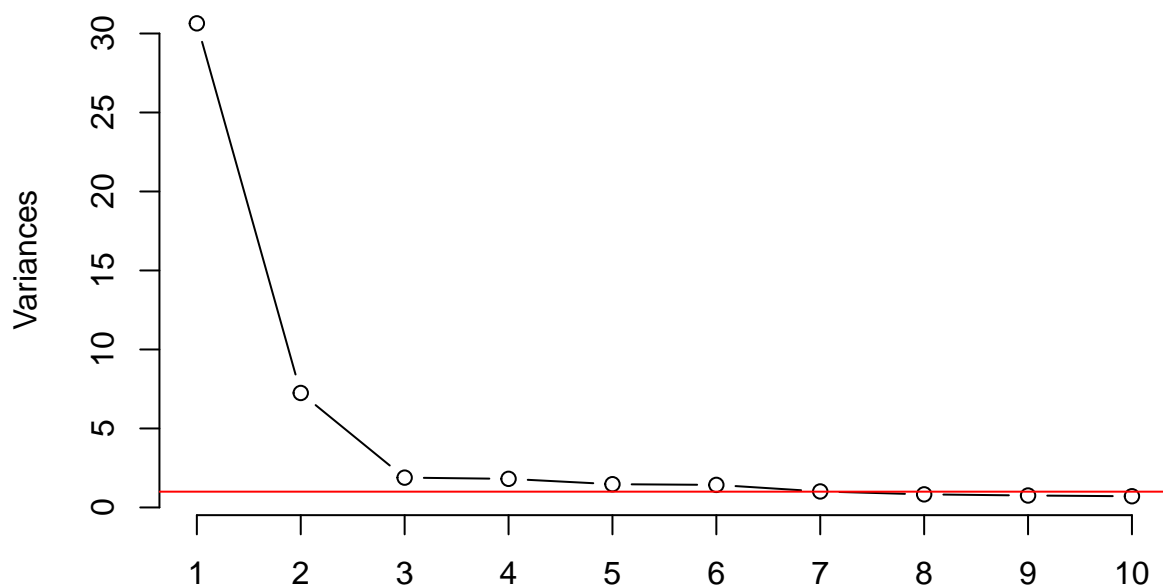
```
##          mean median  std.dev
## Basic.Human.Needs  76.00644  82.69 18.09972
## Foundations.of.Wellbeing  70.32638  71.29 14.30272
## Opportunity  58.26454  56.63 16.01980
## Nutrition.and.Basic.Medical.Care  84.30129  91.16 14.81386
## Water.and.Sanitation  74.89374  85.77 25.30609
```

```
# Stats
```

Clearly, these are the components with very high variance anyway. Hence what is often suggested here is to standardize or scale the data.

```
pr.out = prcomp(spi2020, scale = TRUE)
plot(pr.out, type = "l", main = "Scree plot") # as evident, pc1 does not explain as much of the variability
plot(pr.out, type = "l", main = "Scree plot") + abline(h = 1, col = "red")
```

Scree plot



```
## integer(0)
```

```
pr.var = pr.out$sdev^2
pr.var
```

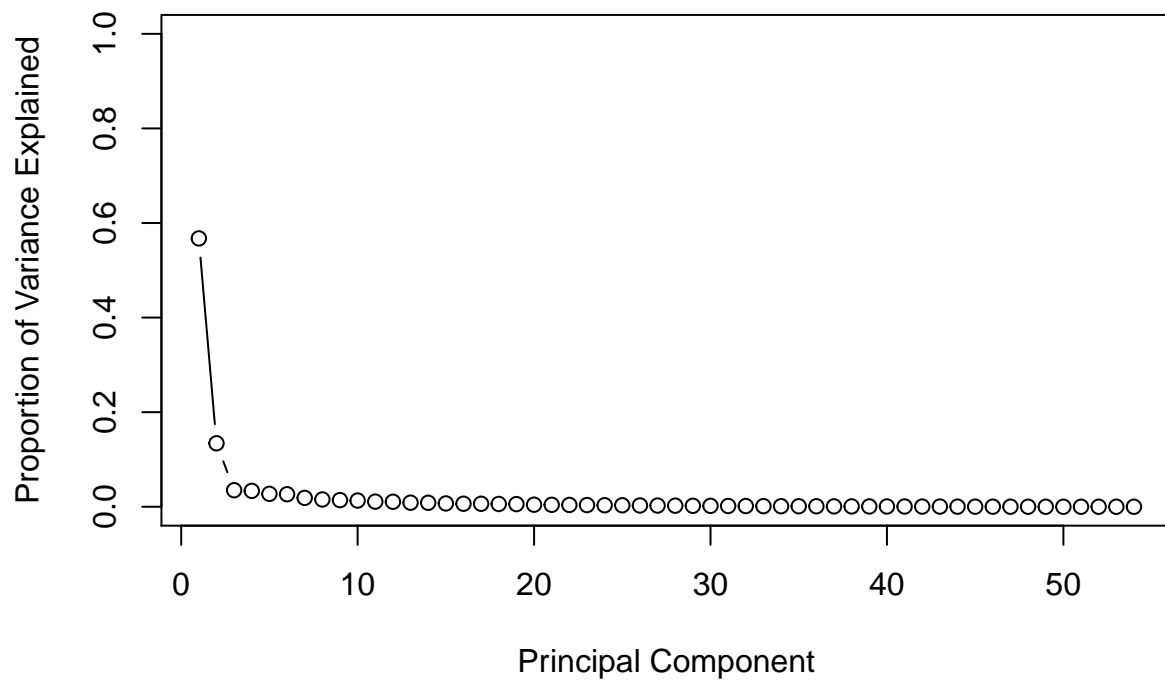
```
## [1] 3.064199e+01 7.246006e+00 1.887270e+00 1.811675e+00 1.472157e+00
## [6] 1.428174e+00 1.013164e+00 8.289534e-01 7.564639e-01 7.098310e-01
## [11] 5.829749e-01 5.682025e-01 4.646361e-01 4.514001e-01 3.751002e-01
## [16] 3.442655e-01 3.403630e-01 3.162698e-01 2.998050e-01 2.346440e-01
## [21] 2.209638e-01 2.045375e-01 1.930314e-01 1.723867e-01 1.652674e-01
## [26] 1.452101e-01 1.362906e-01 1.248117e-01 1.090357e-01 1.036598e-01
## [31] 8.486582e-02 7.971039e-02 7.001801e-02 6.006664e-02 5.535986e-02
## [36] 5.284567e-02 4.271578e-02 3.954332e-02 3.270342e-02 3.084396e-02
## [41] 2.662021e-02 2.120447e-02 2.034110e-02 1.038257e-02 9.045395e-03
## [46] 7.189263e-03 5.690668e-03 2.303976e-03 5.081724e-06 2.669179e-08
## [51] 2.215541e-08 1.798875e-08 1.367893e-08 6.414484e-09
```

```
pve = pr.var/sum(pr.var)
pve
```

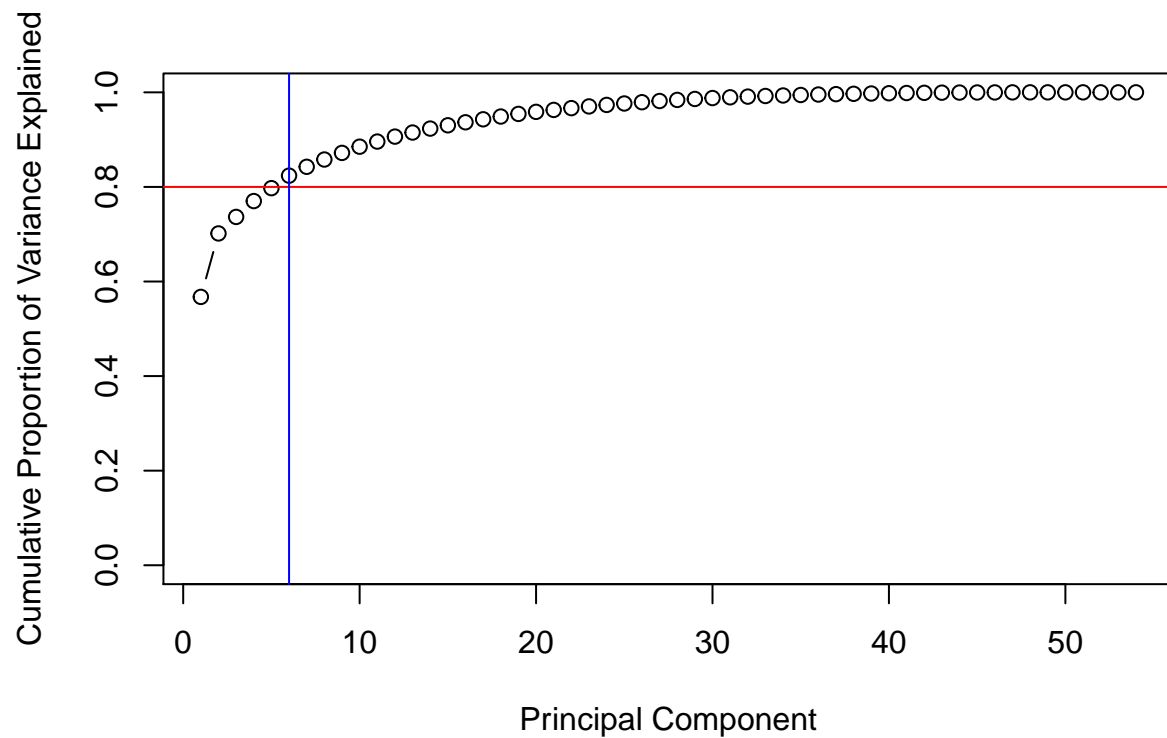
```
## [1] 5.674443e-01 1.341853e-01 3.494944e-02 3.354953e-02 2.726217e-02
## [6] 2.644768e-02 1.876229e-02 1.535099e-02 1.400859e-02 1.314502e-02
## [11] 1.079583e-02 1.052227e-02 8.604371e-03 8.359260e-03 6.946299e-03
## [16] 6.375287e-03 6.303018e-03 5.856848e-03 5.551945e-03 4.345260e-03
```

```
## [21] 4.091923e-03 3.787731e-03 3.574655e-03 3.192346e-03 3.060508e-03
## [26] 2.689077e-03 2.523900e-03 2.311329e-03 2.019180e-03 1.919627e-03
## [31] 1.571589e-03 1.476118e-03 1.296630e-03 1.112345e-03 1.025183e-03
## [36] 9.786235e-04 7.910329e-04 7.322836e-04 6.056189e-04 5.711844e-04
## [41] 4.929669e-04 3.926753e-04 3.766871e-04 1.922698e-04 1.675073e-04
## [46] 1.331345e-04 1.053827e-04 4.26621e-05 9.410600e-08 4.942924e-10
## [51] 4.102854e-10 3.331250e-10 2.533134e-10 1.187867e-10
```

```
plot(pve, xlab = "Principal Component", ylab = "Proportion of Variance Explained", ylim = c(0,1), type = "n")
```



```
plot(cumsum(pve), xlab = "Principal Component", ylab = "Cumulative Proportion of Variance Explained", ylim = c(0,1), type = "n")
```



```
## integer(0)
```

```
# with just the first 6 PCs, able to explain 80% of the variability in data
```

```
# Which components and which country?
```

```
# determine which countries are ranked well in PC1 and PC2 respectively
```

```
# which indicators have the most loadings in PC1 and PC2 respectively
```

```
sp4 <- data.frame(pr.out$x[, 1:4])
```

```
sp4[order(- sp4$PC1), ]
```

##	PC1	PC2	PC3
## Norway	8.645218370	-2.54976925	-0.382451638
## Switzerland	8.532802087	-1.97772651	-0.017725472
## Denmark	8.512089543	-2.54123727	0.077977589
## Sweden	8.360127703	-2.45000470	-0.238627096
## Finland	8.274310193	-2.57454808	-0.225952872
## Iceland	8.134080264	-1.56394636	-1.077423591
## Canada	8.014893145	-1.99819471	0.441784246
## Japan	7.929151555	-0.94698561	1.769709919
## New Zealand	7.912629077	-2.38248071	-0.333850417
## Netherlands	7.906187368	-1.71866001	-0.060190653
## Luxembourg	7.891970429	-2.23641621	-0.830656770
## Germany	7.886672549	-1.86432448	1.443125945
## Australia	7.886454988	-1.60891066	0.439158883

## Ireland	7.690507529	-2.05038573	-0.592468496
## Belgium	7.470027182	-2.12934826	-0.212746999
## Austria	7.401218491	-0.89853499	-0.468665487
## Korea, Republic of	7.334786186	-0.79034416	0.857239441
## France	7.236351494	-1.17304175	0.758251827
## United Kingdom	7.194872524	-1.08104348	1.552359061
## Spain	7.170274538	-1.65229956	0.373037545
## Italy	7.167845821	-1.69541259	0.562025474
## Cyprus	7.014563273	-1.09734158	-0.335655649
## Estonia	6.959095678	-1.52188315	-0.463835196
## Slovenia	6.937131521	-1.33209309	-0.698292563
## Portugal	6.894115406	-2.13128000	-0.663906609
## United States	6.552405115	0.68278275	8.544873528
## Czechia	6.551461951	-0.85877072	-0.275729536
## Greece	6.443426655	-1.56841317	-0.132427543
## Singapore	6.303479317	1.58895878	-1.062120115
## Malta	6.146187326	-0.77626930	-1.039044061
## Lithuania	5.817886469	-1.19711608	-0.416700127
## Poland	5.728917887	-0.19216201	0.147860163
## Israel	5.597621407	0.31258941	-0.252770372
## Costa Rica	5.391038377	-2.00463803	-0.539613800
## Uruguay	5.313471677	-1.86067546	0.026778016
## Slovakia	5.304913651	-0.41935569	-0.274050114
## Latvia	5.227353899	-1.00479208	-0.328113704
## Croatia	5.078721382	0.21513192	-0.834525545
## Chile	4.963798715	-0.39262112	0.087824517
## Barbados	4.530583839	-0.46776931	0.057887492
## Hungary	4.386785837	0.20004096	-0.936006058
## Argentina	4.168263821	-0.63865900	0.423411977
## Bulgaria	4.094877239	-0.29876280	-0.250463261
## Kuwait	4.080382693	2.82915540	-0.201981499
## Mauritius	4.076043650	-0.99309224	0.106371941
## Romania	3.475273171	-0.26012218	-0.277649169
## Trinidad and Tobago	3.471891862	-0.74625326	-0.161562536
## Belarus	3.240403566	2.79693150	-0.810918044
## Armenia	3.214605338	0.32758866	-0.122792226
## Panama	3.062783038	-0.96295091	-0.980802379
## Jamaica	2.954530353	-2.41997657	-0.546047283
## Montenegro	2.917740539	2.34693164	-0.922780747
## Malaysia	2.862831253	1.32755245	-0.171306924
## Serbia	2.851834253	1.79390110	-0.417488069
## Albania	2.825829422	-0.04882621	-1.222886234
## Tunisia	2.672682249	0.26292277	1.290278351
## Republic of North Macedonia	2.415305086	1.86193679	-0.535188615
## Georgia	2.410188362	-0.01831454	-0.051205126
## Bosnia and Herzegovina	2.266474422	1.64823421	-0.376990927
## Ecuador	2.187932489	-0.88617638	-0.437489354
## Sri Lanka	2.166492090	0.09637914	-1.209563867
## Peru	2.041589309	-0.89401463	-0.150150112
## Ukraine	1.907861696	2.07392047	0.517620250
## Moldova	1.839556040	0.75099145	-0.072628683
## Russia	1.811459793	4.45793874	1.281561686
## Colombia	1.764535656	1.16008975	-0.643704597
## Cabo Verde	1.744053955	-1.72455834	0.241583076

## Mexico	1.647536749	0.42556088	0.728055676
## Brazil	1.610839922	1.18320800	0.747107373
## Kazakhstan	1.607796177	3.48173241	-0.331262647
## Maldives	1.455637393	0.89487338	-0.828604612
## Qatar	1.420141496	6.10950180	-0.037071488
## Jordan	1.382296847	3.45024724	-0.550334723
## Paraguay	1.299756462	-0.37570266	-0.904743864
## Oman	1.292721836	4.23483606	-0.305320365
## Suriname	1.158644991	-0.69958868	-0.219940711
## Cuba	1.145863849	2.12691096	-2.240072992
## Mongolia	1.108628432	-1.26326046	0.242201282
## Lebanon	0.827018075	2.98177482	-0.256175354
## United Arab Emirates	0.813797218	5.20094359	-0.551387506
## Thailand	0.790358965	2.45276863	-0.671670875
## Dominican Republic	0.662062925	-1.10191075	-0.527534897
## South Africa	0.496576246	-0.48903846	1.075002962
## Algeria	0.403246394	2.95996190	-0.352548027
## Botswana	0.254610415	-1.84923202	-0.582102883
## Kyrgyzstan	0.199777979	1.97623435	-0.438262219
## Bhutan	0.113148473	-1.18596121	0.600542229
## Vietnam	0.107142915	2.90875707	-0.737985261
## El Salvador	0.041516637	0.18561283	-0.242995087
## Fiji	0.018065387	0.99089990	-0.675653428
## Bolivia	0.001718601	-0.73707074	-0.595438682
## Turkey	-0.010617107	5.80129735	0.491605241
## Indonesia	-0.118031031	-0.27671010	0.710139336
## Bahrain	-0.129200393	7.55865101	-0.054101232
## Guyana	-0.228400926	-0.73252661	-0.022663386
## China	-0.254876972	7.95373216	8.848783869
## Iran	-0.529326546	5.06386427	0.627414769
## Namibia	-0.698808685	-2.53284091	-0.113347316
## Morocco	-0.818235751	2.32820691	0.233800697
## Saudi Arabia	-0.996098560	8.52544703	0.632150491
## Uzbekistan	-1.006498311	4.27831738	-0.209510508
## Philippines	-1.054452544	0.89056552	-0.081983950
## Ghana	-1.147557217	-3.13111013	0.740689412
## Iraq	-1.166386420	3.82666653	0.466763427
## Nicaragua	-1.457419641	2.17074509	-2.403588773
## Gabon	-1.519272738	0.22138595	-0.076640201
## Azerbaijan	-1.729857179	4.61082609	-1.297318220
## Honduras	-1.942144887	0.41834940	-1.530554111
## Guatemala	-2.290118535	0.41894711	-0.815183442
## Timor-Leste	-2.548334828	-2.73157429	-0.557326996
## Senegal	-2.935267488	-3.83789453	0.743146742
## Turkmenistan	-3.289757032	6.45805467	-2.248820248
## Egypt	-3.410333748	6.06866850	1.836763625
## Nepal	-4.037394879	-0.60536707	2.638277031
## India	-4.049742443	2.37365010	5.301389342
## Tanzania	-4.122364782	-3.08047252	-0.529161987
## Kenya	-4.138824446	-1.54553517	-0.236274844
## Myanmar	-4.332862979	0.72632665	0.003973548
## Tajikistan	-4.422430009	5.17539889	-1.576322447
## Cambodia	-4.422443422	1.96160099	-1.688397200
## Gambia, The	-4.436241746	-3.59627744	0.617771694

## Benin	-4.742695036	-5.19571620	0.765968997
## Rwanda	-4.856562073	-0.41874540	-0.164982418
## Zambia	-4.950985023	-2.39153040	-0.850917347
## Bangladesh	-5.022568935	2.01911305	0.775183751
## Togo	-5.236617609	-2.80829126	-0.279955459
## Malawi	-5.236758541	-3.77789254	-0.805373871
## Lesotho	-5.321664177	-3.02816228	0.686032821
## Côte d'Ivoire	-5.404518496	-2.45305237	-0.206179875
## Uganda	-5.635889977	-1.27594457	-0.093170113
## Liberia	-5.776531855	-4.99398728	0.480751138
## Korea, Democratic Republic of	-5.805543576	5.07542773	-2.881817641
## Nigeria	-5.943751309	-0.98909808	1.652624363
## Equatorial Guinea	-5.987056040	2.34163207	-1.405441026
## Eswatini	-6.072730245	2.64587807	-1.631805094
## Cameroon	-6.262186389	0.02342560	1.009081142
## Zimbabwe	-6.360771873	-0.06885501	-1.647080456
## Laos	-6.396352398	1.71577109	-1.981452494
## Djibouti	-6.462670426	0.96681155	0.244747870
## Mauritania	-6.501553418	0.24438561	0.468611594
## Sierra Leone	-6.596298435	-5.40778108	0.761853984
## Sudan	-6.600311542	2.51962486	0.434034340
## Burkina Faso	-6.746623832	-4.62787127	1.117877623
## Ethiopia	-6.867539360	-1.86030695	-0.397249438
## Haiti	-6.871818799	-1.24335956	-1.017701242
## Mali	-6.991182807	-3.65935562	1.053411832
## Angola	-7.004291958	-1.04766763	0.058922822
## Mozambique	-7.142394816	-4.00627727	-0.409648183
## Pakistan	-7.160203390	2.19563144	1.356608021
## Madagascar	-7.365771269	-4.14685183	0.044097524
## Congo, Republic of	-7.420820485	1.38750179	-0.994504397
## Guinea-Bissau	-7.994075982	-3.35801470	-0.302026267
## Papua New Guinea	-8.631088427	-3.39984579	0.390526865
## Niger	-8.991353344	-5.10896292	2.541776244
## Afghanistan	-9.063128256	1.04849539	1.114380243
## Congo, Democratic Republic of	-9.192439789	-0.84479059	-0.899359836
## Guinea	-9.433989844	-2.48651546	-0.168673207
## Burundi	-9.859937829	-0.53320211	-1.102385999
## Eritrea	-11.440563225	1.84015506	-0.904896098
## Somalia	-11.853298430	0.06819242	0.143447095
## Chad	-12.915595039	-0.91979235	0.578674906
## South Sudan	-12.952719780	-0.25598587	-0.699341272
## Central African Republic	-13.763600871	-4.54011595	1.626499507
##	PC4		
## Norway	-0.92591449		
## Switzerland	-0.69921795		
## Denmark	-0.27887617		
## Sweden	-0.68693418		
## Finland	-0.66823147		
## Iceland	-0.93540471		
## Canada	-1.00585604		
## Japan	-1.81245706		
## New Zealand	-0.88953097		
## Netherlands	-0.74162022		
## Luxembourg	-0.24267979		

## Germany	-0.72443447
## Australia	-1.40772150
## Ireland	-0.55441450
## Belgium	-0.42966410
## Austria	-0.89780984
## Korea, Republic of	-0.35270599
## France	-1.61900060
## United Kingdom	-1.73764694
## Spain	-1.27079402
## Italy	-0.86816037
## Cyprus	-0.18167301
## Estonia	-0.36315926
## Slovenia	-0.36366465
## Portugal	-0.67020429
## United States	-4.09073006
## Czechia	0.27566190
## Greece	-0.10821900
## Singapore	-1.23896944
## Malta	-0.24521037
## Lithuania	1.33117104
## Poland	0.23479362
## Israel	-0.93501526
## Costa Rica	0.35571141
## Uruguay	1.40456136
## Slovakia	0.61283130
## Latvia	0.86459695
## Croatia	-0.06668950
## Chile	-0.10726039
## Barbados	1.90169834
## Hungary	0.29012346
## Argentina	0.68919939
## Bulgaria	1.16925190
## Kuwait	0.16085274
## Mauritius	2.57061790
## Romania	0.42067355
## Trinidad and Tobago	2.15740503
## Belarus	1.19399150
## Armenia	1.82144350
## Panama	-0.80908101
## Jamaica	1.29665295
## Montenegro	0.73070654
## Malaysia	0.40617286
## Serbia	0.74877109
## Albania	-0.59845756
## Tunisia	2.03112438
## Republic of North Macedonia	0.67277568
## Georgia	1.74565183
## Bosnia and Herzegovina	1.14605039
## Ecuador	-0.64588518
## Sri Lanka	-1.10068375
## Peru	-1.16717951
## Ukraine	2.35824386
## Moldova	1.63685263
## Russia	-0.41418482

## Colombia	-2.18240857
## Cabo Verde	1.52961111
## Mexico	-0.97632365
## Brazil	-1.50159623
## Kazakhstan	0.74218129
## Maldives	-0.35082035
## Qatar	1.00793123
## Jordan	0.04219600
## Paraguay	-0.81934541
## Oman	1.45906024
## Suriname	1.64721647
## Cuba	-1.32885031
## Mongolia	3.15149468
## Lebanon	0.60688955
## United Arab Emirates	2.15091399
## Thailand	-1.93435948
## Dominican Republic	-0.25387823
## South Africa	1.38579521
## Algeria	0.14072843
## Botswana	0.78663144
## Kyrgyzstan	1.01286541
## Bhutan	0.98901219
## Vietnam	0.01123652
## El Salvador	0.16906034
## Fiji	2.51543712
## Bolivia	-0.05561703
## Turkey	-1.16345958
## Indonesia	0.16563678
## Bahrain	0.28639652
## Guyana	2.11940360
## China	-3.96520476
## Iran	-1.20970027
## Namibia	0.52782703
## Morocco	1.17832158
## Saudi Arabia	0.34195180
## Uzbekistan	2.29436299
## Philippines	0.12634894
## Ghana	1.98919018
## Iraq	-0.22561929
## Nicaragua	-3.28331778
## Gabon	2.04197719
## Azerbaijan	0.21820106
## Honduras	-1.44318543
## Guatemala	-1.28242604
## Timor-Leste	0.13408103
## Senegal	0.73064112
## Turkmenistan	0.64012523
## Egypt	3.10110398
## Nepal	3.06097189
## India	1.68235526
## Tanzania	-1.04686578
## Kenya	-0.85644072
## Myanmar	0.53933115
## Tajikistan	-0.26407574

```
## Cambodia -1.55707376
## Gambia, The 2.16361673
## Benin 0.61157137
## Rwanda -0.78436401
## Zambia -0.94240904
## Bangladesh 0.13195402
## Togo -0.47500916
## Malawi -1.37690779
## Lesotho 2.98858852
## Côte d'Ivoire -0.49146904
## Uganda -1.36323686
## Liberia -0.11101504
## Korea, Democratic Republic of -1.70517684
## Nigeria -0.33733807
## Equatorial Guinea -1.54425662
## Eswatini -0.40172943
## Cameroon 1.08581063
## Zimbabwe -1.51067710
## Laos -1.74926039
## Djibouti 0.75467225
## Mauritania 0.30898278
## Sierra Leone 0.20574275
## Sudan 0.07661059
## Burkina Faso -0.11297675
## Ethiopia -2.08089236
## Haiti -0.31159862
## Mali -0.38710328
## Angola -0.64149634
## Mozambique -1.02828428
## Pakistan 0.43863360
## Madagascar 0.04269696
## Congo, Republic of -0.49063424
## Guinea-Bissau 0.06815870
## Papua New Guinea 3.06903521
## Niger 0.35285505
## Afghanistan 2.25700104
## Congo, Democratic Republic of -1.53486314
## Guinea -1.10487583
## Burundi -1.82118262
## Eritrea -1.27577347
## Somalia -0.83617957
## Chad -1.76735401
## South Sudan -2.36031272
## Central African Republic 0.79228168
```

```
cosp4 <- data.frame(pr.out$rotation[, 1:4])
cosp4[order(- cosp4[, 1]), ]
```

```
## PC1
## Foundations.of.Wellbeing 0.17588076
## Basic.Human.Needs 0.17195776
## Access.to.essential.services...0.none..100.full.coverage. 0.17177645
## Opportunity 0.16934968
## Health.and.Wellness 0.16637512
```

## Access.to.Information.and.Communications	0.16633731
## Personal.Freedom.and.Choice	0.16623175
## Nutrition.and.Basic.Medical.Care	0.16538529
## Water.and.Sanitation	0.16427357
## Shelter	0.16287627
## Access.to.Advanced.Education	0.16226536
## Internet.users....of.pop..	0.16206190
## Access.to.Basic.Knowledge	0.15745950
## Life.expectancy.at.60..years.	0.15431712
## Women.with.advanced.education....	0.14811438
## Personal.Safety	0.14671615
## Access.to.quality.healthcare..0.unequal..4.equal.	0.14592976
## Access.to.online.governance..0.low..1.high.	0.14314397
## Access.to.electricity....of.pop..	0.14166033
## Access.to.quality.education..0.unequal..4.equal.	0.13321164
## Access.to.justice..0.non.existent..1.observed.	0.13200031
## Citable.documents	0.13034271
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.12892541
## Personal.Rights	0.12844478
## Inclusiveness	0.12802533
## Property.rights.for.women..0.no.right..5.full.rights.	0.12737664
## Political.rights..0.no.rights..40.full.rights.	0.12719184
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.11593612
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.10317451
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.09987346
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.09955379
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.09680554
## Media.censorship..0.frequent..4.rare.	0.09118232
## Environmental.Quality	0.07943496
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.06870666
## Quality.weighted.universities..points.	0.05052880
## Biome.protection	0.04542126
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.01390375
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.04680620
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.08832687
## Particulate.matter	-0.10303015
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.11683304
## Women.with.no.schooling	-0.12183372
## Early.marriage....of.women.	-0.12812255
## Traffic.deaths..deaths.100.000.	-0.12987327
## Deaths.from.infectious.diseases..deaths.100.000.	-0.14441608
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.14708766
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.15029963
## Vulnerable.employment....of.employees.	-0.15522020
## Child.mortality.rate..deaths.1.000.live.births.	-0.15696584
## Child.stunting....of.children.	-0.15792847
## Populations.using.unsafe.or.unimproved.sanitation....	-0.15855270
## Populations.using.unsafe.or.unimproved.water.sources....	-0.16061712
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.16522771
##	PC2
## Foundations.of.Wellbeing	-0.0231531079
## Basic.Human.Needs	0.0988352411
## Access.to.essential.services...0.none..100.full.coverage.	0.0655314772
## Opportunity	-0.1056049514

## Health.and.Wellness	0.0274896556
## Access.to.Information.and.Communications	-0.0003931468
## Personal.Freedom.and.Choice	0.0377355915
## Nutrition.and.Basic.Medical.Care	0.1224542099
## Water.and.Sanitation	0.1313893633
## Shelter	0.1207507845
## Access.to.Advanced.Education	0.0671293763
## Internet.users....of.pop..	0.0811904852
## Access.to.Basic.Knowledge	0.0763475574
## Life.expectancy.at.60..years.	0.0358345417
## Women.with.advanced.education....	0.0919715430
## Personal.Safety	-0.0502524129
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.0010834461
## Access.to.online.governance..0.low..1.high.	0.0289817437
## Access.to.electricity....of.pop..	0.1571865974
## Access.to.quality.education..0.unequal..4.equal.	-0.0118233183
## Access.to.justice..0.non.existent..1.observed.	-0.1463737186
## Citable.documents	-0.0639087020
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	-0.1685819023
## Personal.Rights	-0.2318129797
## Inclusiveness	-0.2186172745
## Property.rights.for.women..0.no.right..5.full.rights.	-0.1096088588
## Political.rights..0.no.rights..40.full.rights.	-0.2133912903
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.0629768811
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.2071318172
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	-0.2090695769
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.2038183793
## Freedom.of.expression..0.no.freedom..1.full.freedom.	-0.2728751546
## Media.censorship..0.frequent..4.rare.	-0.2522783256
## Environmental.Quality	-0.2318057112
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.2637851787
## Quality.weighted.universities..points.	0.0452934333
## Biome.protection	-0.1544598830
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.1037130004
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.2395103712
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.1255081779
## Particulate.matter	0.1242317347
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.0118434127
## Women.with.no.schooling	-0.0935887493
## Early.marriage....of.women.	-0.0927251877
## Traffic.deaths..deaths.100.000.	-0.0037403054
## Deaths.from.infectious.diseases..deaths.100.000.	-0.1510799151
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.1530530602
## Maternal.mortality.rate..deaths.100.000.live.births.	-0.1345334481
## Vulnerable.employment....of.employees.	-0.1029584947
## Child.mortality.rate..deaths.1.000.live.births.	-0.1173181976
## Child.stunting....of.children.	-0.0653838967
## Populations.using.unsafe.or.unimproved.sanitation....	-0.1095303941
## Populations.using.unsafe.or.unimproved.water.sources....	-0.1127725356
## Household.air.pollution.attributable.deaths..deaths.100.000.	-0.0579776337
##	PC3
## Foundations.of.Wellbeing	-0.064215820
## Basic.Human.Needs	-0.023902741
## Access.to.essential.services...0.none..100.full.coverage.	0.005287744

## Opportunity	0.079998428
## Health.and.Wellness	-0.012896378
## Access.to.Information.and.Communications	0.103700719
## Personal.Freedom.and.Choice	0.007584147
## Nutrition.and.Basic.Medical.Care	-0.020612833
## Water.and.Sanitation	-0.037749294
## Shelter	-0.015526038
## Access.to.Advanced.Education	0.115261203
## Internet.users....of.pop..	0.024283359
## Access.to.Basic.Knowledge	-0.086564150
## Life.expectancy.at.60..years.	-0.006044957
## Women.with.advanced.education....	-0.011334593
## Personal.Safety	-0.008070470
## Access.to.quality.healthcare..0.unequal..4.equal.	-0.054644789
## Access.to.online.governance..0.low..1.high.	0.151147103
## Access.to.electricity....of.pop..	0.001204227
## Access.to.quality.education..0.unequal..4.equal.	-0.061474482
## Access.to.justice..0.non.existent..1.observed.	0.117211400
## Citable.documents	0.007870334
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.027541397
## Personal.Rights	0.098949216
## Inclusiveness	0.035628184
## Property.rights.for.women..0.no.right..5.full.rights.	0.154140454
## Political.rights..0.no.rights..40.full.rights.	0.091142613
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.026168850
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	0.048507252
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.063750649
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.095635346
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.097575397
## Media.censorship..0.frequent..4.rare.	0.110526185
## Environmental.Quality	-0.295049401
## Freedom.of.religion..0.no.freedom..4.full.freedom.	-0.048757064
## Quality.weighted.universities..points.	0.532213482
## Biome.protection	-0.117749646
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.554468544
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.130055154
## Discrimination.and.violence.against.minorities..0.low..10.high.	0.128644122
## Particulate.matter	0.234519200
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.006692260
## Women.with.no.schooling	0.140209838
## Early.marriage....of.women.	0.070381637
## Traffic.deaths..deaths.100.000.	0.057814143
## Deaths.from.infectious.diseases..deaths.100.000.	0.033052900
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	0.076771497
## Maternal.mortality.rate..deaths.100.000.live.births.	0.063501497
## Vulnerable.employment....of.employees.	0.017056449
## Child.mortality.rate..deaths.1.000.live.births.	0.054756941
## Child.stunting....of.children.	0.020156542
## Populations.using.unsafe.or.unimproved.sanitation....	0.002861018
## Populations.using.unsafe.or.unimproved.water.sources....	0.030170152
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.053380265
##	PC4
## Foundations.of.Wellbeing	-0.0812707693
## Basic.Human.Needs	0.0251349207

## Access.to.essential.services...0.none..100.full.coverage.	-0.0680726476
## Opportunity	0.0343222872
## Health.and.Wellness	-0.1535854398
## Access.to.Information.and.Communications	0.0496290834
## Personal.Freedom.and.Choice	0.0113613616
## Nutrition.and.Basic.Medical.Care	0.0221813189
## Water.and.Sanitation	0.0144075955
## Shelter	0.0293548458
## Access.to.Advanced.Education	-0.0592419165
## Internet.users....of.pop..	0.0248020021
## Access.to.Basic.Knowledge	0.0454278100
## Life.expectancy.at.60..years.	-0.2254273822
## Women.with.advanced.education....	0.0352236686
## Personal.Safety	0.0315726087
## Access.to.quality.healthcare..0.unequal..4.equal.	0.0770437145
## Access.to.online.governance..0.low..1.high.	-0.0701761530
## Access.to.electricity....of.pop..	0.1288102178
## Access.to.quality.education..0.unequal..4.equal.	0.0926492824
## Access.to.justice..0.non.existent..1.observed.	0.1513983798
## Citable.documents	-0.1536884537
## Political.killings.and.torture..0.low.freedom..1.high.freedom.	0.1666365870
## Personal.Rights	0.1331390003
## Inclusiveness	0.0163020707
## Property.rights.for.women..0.no.right..5.full.rights.	0.1739168957
## Political.rights..0.no.rights..40.full.rights.	0.0810378154
## Mobile.telephone.subscriptions..subscriptions.100.people.	0.1675220006
## Equality.of.political.power.by.gender..0.unequal.power..4.equal.power.	-0.0149278730
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power.	0.0487770190
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.1542213980
## Freedom.of.expression..0.no.freedom..1.full.freedom.	0.1126330003
## Media.censorship..0.frequent..4.rare.	0.0952851659
## Environmental.Quality	-0.2977081459
## Freedom.of.religion..0.no.freedom..4.full.freedom.	0.0608779977
## Quality.weighted.universities..points.	-0.2912061866
## Biome.protection	-0.2000072657
## Greenhouse.gas.emissions..total.CO2.equivalents.	-0.2391842424
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.4393757028
## Discrimination.and.violence.against.minorities..0.low..10.high.	-0.0840100275
## Particulate.matter	0.1534259375
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.3382329345
## Women.with.no.schooling	0.0145751757
## Early.marriage....of.women.	-0.0615872541
## Traffic.deaths..deaths.100.000.	0.1019644852
## Deaths.from.infectious.diseases..deaths.100.000.	-0.0472601592
## Unsafe.water..sanitation.and.hygiene.attributable.deaths..per.100.000.pop..	-0.0602165071
## Maternal.mortality.rate..deaths.100.000.live.births.	0.0328189679
## Vulnerable.employment....of.employees.	-0.0820859253
## Child.mortality.rate..deaths.1.000.live.births.	-0.0174518302
## Child.stunting....of.children.	-0.0103075644
## Populations.using.unsafe.or.unimproved.sanitation....	0.0155000508
## Populations.using.unsafe.or.unimproved.water.sources....	0.0007476995
## Household.air.pollution.attributable.deaths..deaths.100.000.	0.1321792383

```
## Correlation plot of all the variables
## Check Stats earlier
library(corrplot)
```

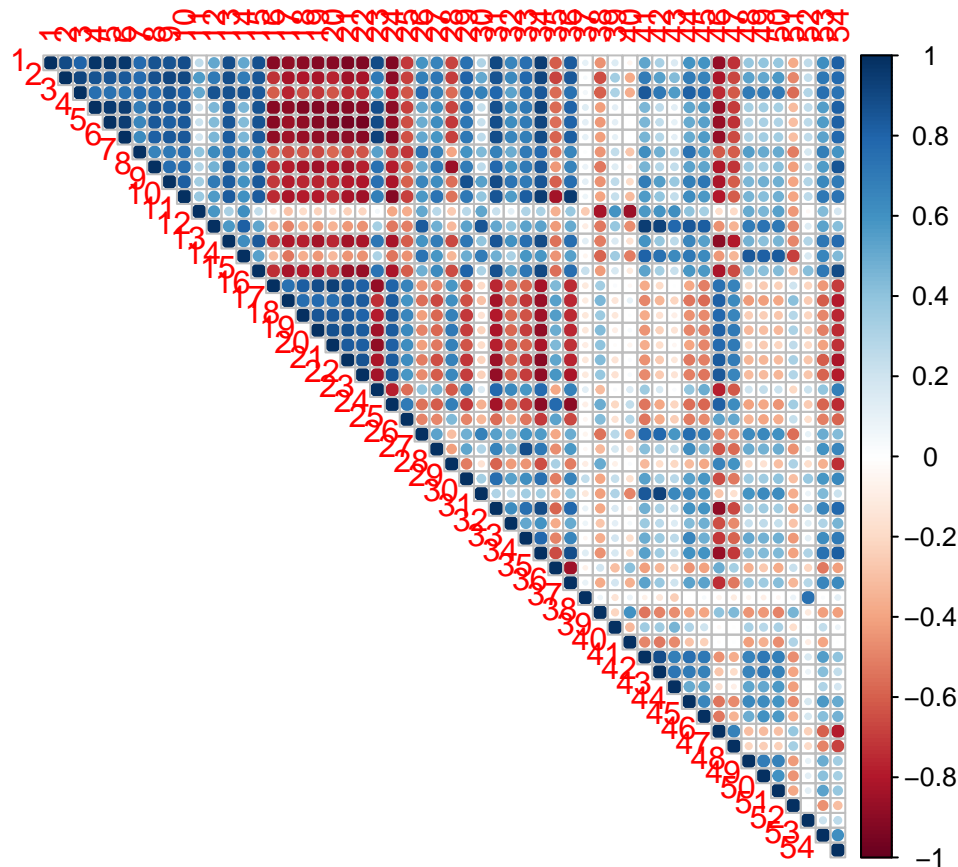
```
## corrplot 0.84 loaded
```

```
corspi <- cor(spi2020) # gives a n x n matrix for correlation values, where n = number of x variables
dim(corspi)
```

```
## [1] 54 54
```

```
rownames(corspi) <- colnames(corspi) <- 1:54
```

```
# corrplot(corr = correlation_matrix, type = "upper"/ "lower" / "full")
# type = "upper" - to display the upper triangular matrix
corrplot(corspi, type = "upper")
```



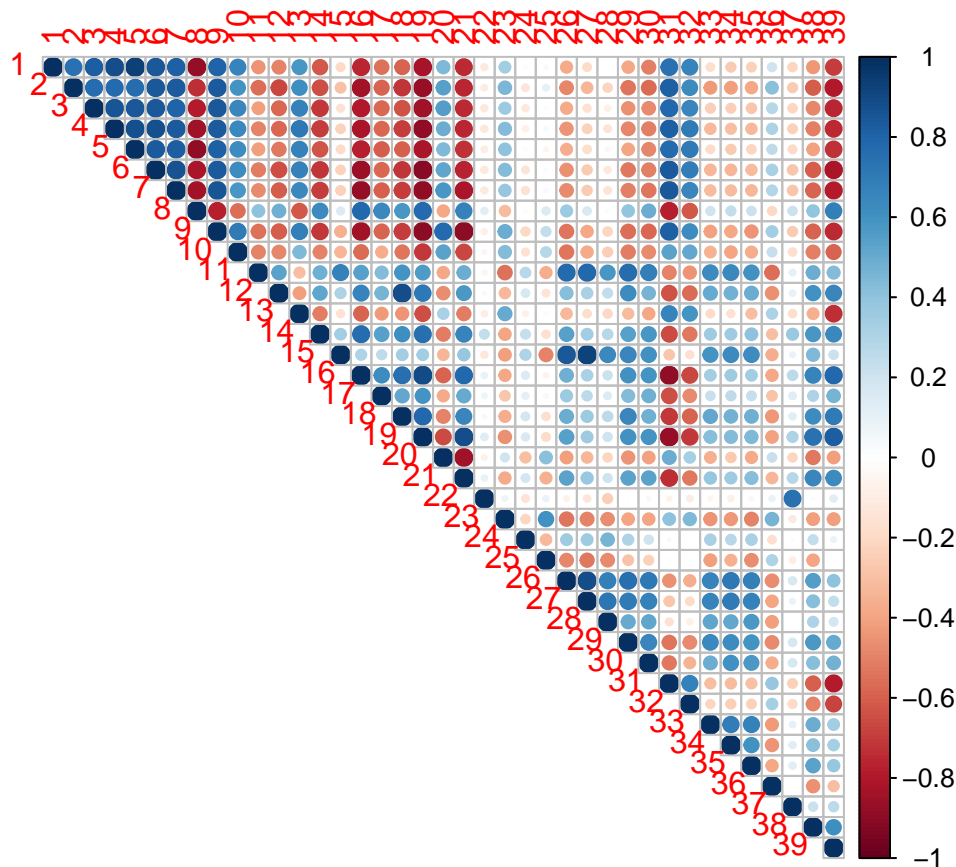
Now, we can go back to the documentation of the data and see that the primary components here are not the core metrics computed. There are three big dimensions: 1. Basic Human Needs 2. Foundations of Well-being 3. Opportunity

The SPI is an average of these three quantities which are again averages of four different quantities each. We remove this to have the core data to study.

```
bigdim <- c("Basic.Human.Needs", "Foundations.of.Wellbeing", "Opportunity")
medcomp <- c("Nutrition.and.Basic.Medical.Care", "Water.and.Sanitation", "Shelter", "Personal.Safety", "
spi2020core <- spi2020[, !names(spi2020) %in% c(bigdim, medcomp)]
dim(spi2020core)
```

```
## [1] 163 39
```

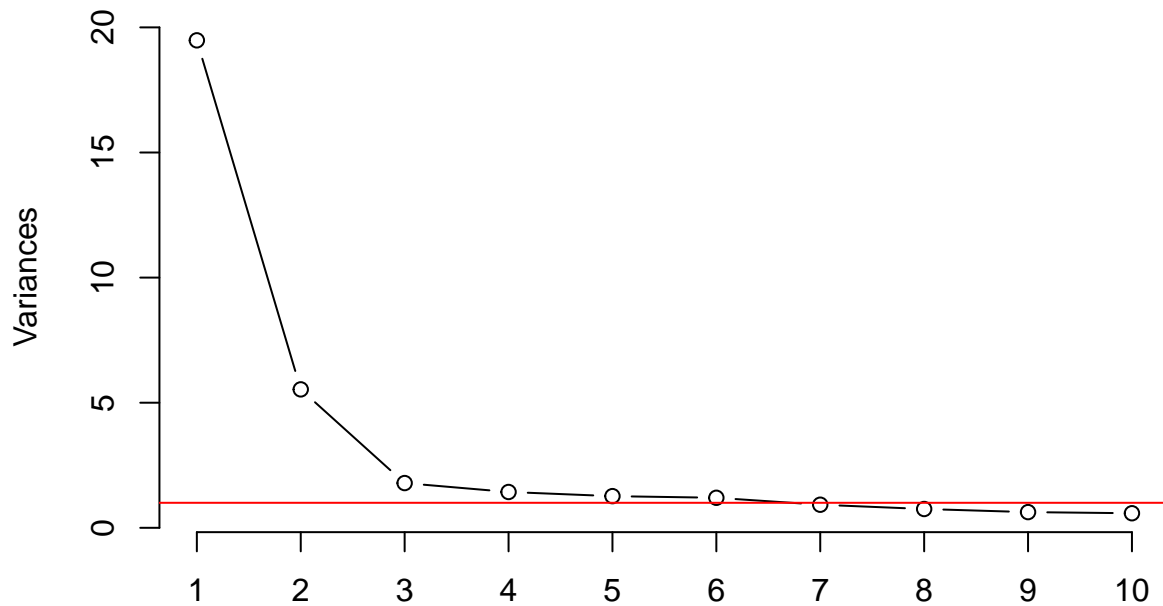
```
corspicore <- cor(spi2020core)
rownames(corspicore) <- colnames(corspicore) <- 1:dim(corspicore)[1]
corrplot(corspicore, type = "upper")
```



Now we conduct a PCA. What we observe is that the PC1 explains 50.0% PC2 explains 14.2% PC3 explains 4.6%
PC4 explains 3.7%

```
pr.out.core <- prcomp(spi2020core, scale = TRUE)
# pr.out.core
#
plot(pr.out.core, type = "l", main = "Scree plot for core indicators") + abline(h = 1, col = "red")
```

Scree plot for core indicators

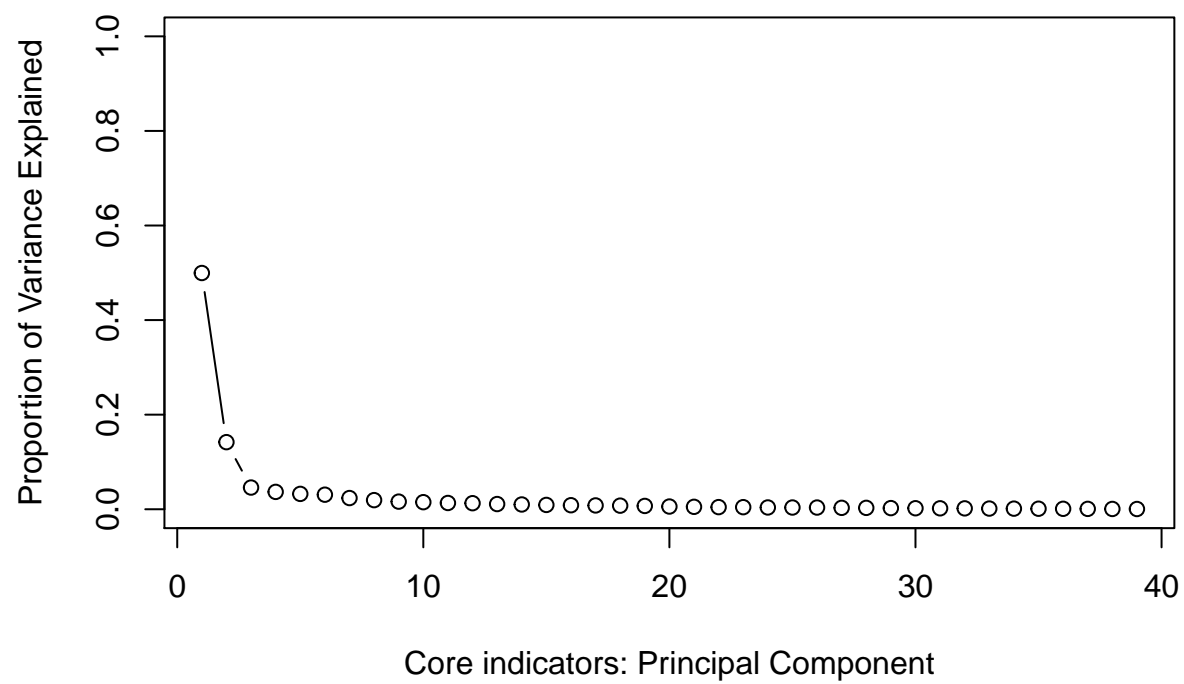


```
## integer(0)
```

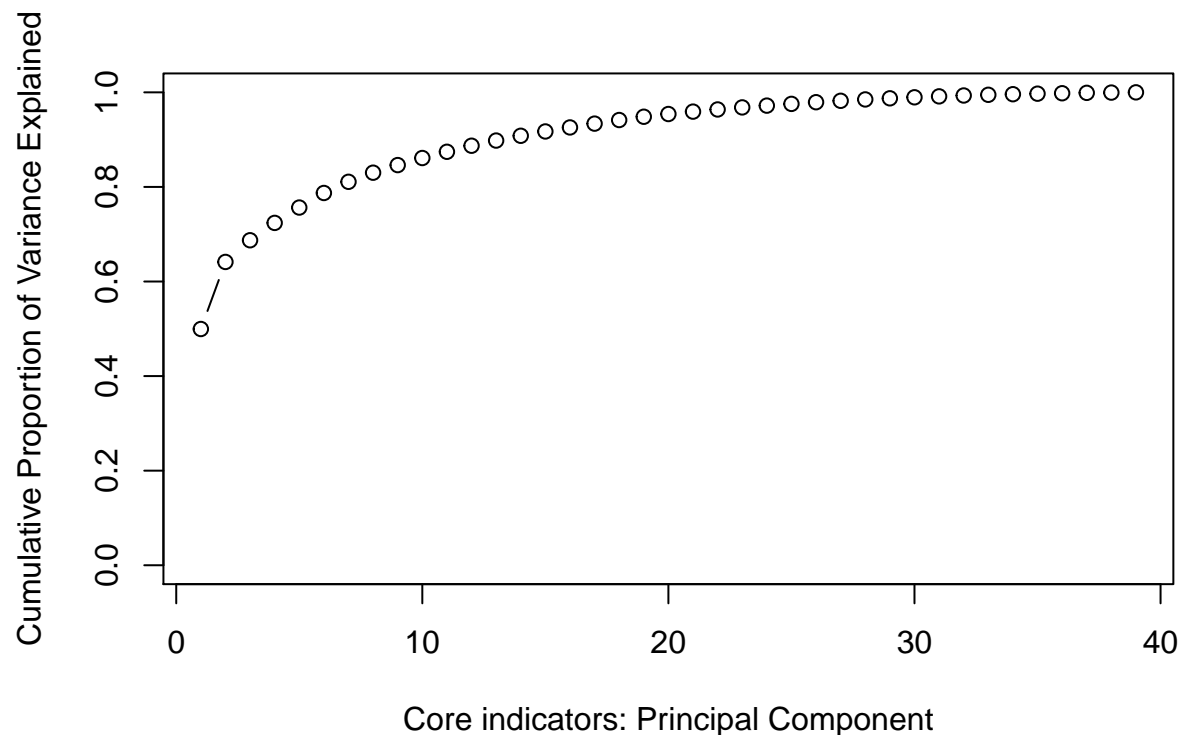
```
pr.var.core = pr.out.core$sdev^2
#pr.var.core
pve.core = pr.var.core / sum(pr.var.core)
pve.core
```

```
## [1] 0.4995375309 0.1418431236 0.0458570024 0.0367125851 0.0324533884
## [6] 0.0307786779 0.0236679525 0.0192697154 0.0160904297 0.0149292014
## [11] 0.0132099724 0.0127548837 0.0109588234 0.0100919687 0.0091445464
## [16] 0.0084845289 0.0080622265 0.0076195313 0.0069743322 0.0057231996
## [21] 0.0051095331 0.0045197027 0.0043852010 0.0037644713 0.0036404605
## [26] 0.0035837786 0.0029618049 0.0028930647 0.0023884956 0.0021216353
## [31] 0.0019817646 0.0018434924 0.0014749256 0.0012593072 0.0011036603
## [36] 0.0009343887 0.0007930752 0.0006008931 0.0004767247
```

```
plot(pve.core, xlab = "Core indicators: Principal Component", ylab = "Proportion of Variance Explained")
```



```
plot(cumsum(pve.core), xlab = "Core indicators: Principal Component", ylab = "Cumulative Proportion of V
```



```
n <- dim(spi2020core)[1]
k <- dim(spi2020core)[2]

nup <- 5
kup <- 5

sp4.core <- data.frame(pr.out.core$x[, 1:4])
cosp4.core <- data.frame(pr.out.core$rotation[, 1:4])
# sp4.core
# cosp4.core

cosp4.core[order(-cosp4.core[,1]), ][c(1:kup, (k - kup + 1):k), ]
```

##	PC1
## Access.to.essential.services...0.none..100.full.coverage.	0.2149302
## Internet.users....of.pop..	0.2026778
## Life.expectancy.at.60..years.	0.1935808
## Women.with.advanced.education....	0.1854162
## Access.to.quality.healthcare..0.unequal..4.equal.	0.1837150
## Child.mortality.rate..deaths.1.000.live.births.	-0.1962882
## Child.stunting....of.children.	-0.1981282
## Populations.using.unsafe.or.unimproved.sanitation....	-0.1983278
## Populations.using.unsafe.or.unimproved.water.sources....	-0.2008027

```
## Household.air.pollution.attributable.deaths..deaths.100.000. -0.2072695
## PC2
## Access.to.essential.services...0.none..100.full.coverage. 0.0789205849
## Internet.users....of.pop.. 0.0942708493
## Life.expectancy.at.60..years. 0.0445171494
## Women.with.advanced.education.... 0.1071345527
## Access.to.quality.healthcare..0.unequal..4.equal. -0.0006333655
## Child.mortality.rate..deaths.1.000.live.births. -0.1380039959
## Child.stunting....of.children. -0.0767280502
## Populations.using.unsafe.or.unimproved.sanitation.... -0.1271563875
## Populations.using.unsafe.or.unimproved.water.sources.... -0.1313111425
## Household.air.pollution.attributable.deaths..deaths.100.000. -0.0695212094
## PC3
## Access.to.essential.services...0.none..100.full.coverage. -0.0351548442
## Internet.users....of.pop.. 0.0129074396
## Life.expectancy.at.60..years. -0.1114615030
## Women.with.advanced.education.... 0.0347238173
## Access.to.quality.healthcare..0.unequal..4.equal. 0.1204774834
## Child.mortality.rate..deaths.1.000.live.births. -0.0413368295
## Child.stunting....of.children. -0.0252755209
## Populations.using.unsafe.or.unimproved.sanitation.... -0.0006977791
## Populations.using.unsafe.or.unimproved.water.sources.... -0.0227135819
## Household.air.pollution.attributable.deaths..deaths.100.000. 0.0359118895
## PC4
## Access.to.essential.services...0.none..100.full.coverage. 0.081550988
## Internet.users....of.pop.. -0.002207984
## Life.expectancy.at.60..years. 0.281577792
## Women.with.advanced.education.... -0.047297262
## Access.to.quality.healthcare..0.unequal..4.equal. 0.028172676
## Child.mortality.rate..deaths.1.000.live.births. 0.019968049
## Child.stunting....of.children. 0.001509685
## Populations.using.unsafe.or.unimproved.sanitation.... -0.030489615
## Populations.using.unsafe.or.unimproved.water.sources.... -0.004984459
## Household.air.pollution.attributable.deaths..deaths.100.000. -0.170344099
```

```
topbotPC1 <- row.names(cosp4.core[order(-cosp4.core[,1]),])[c(1:kup, (k-kup+1):k)]
sp4.core[order(-sp4.core$PC1),][c(1:nup, (n-nup+1):n),]
```

	PC1	PC2	PC3	PC4
## Switzerland	6.858366	-1.70862573	-0.181245574	1.07287463
## Norway	6.808964	-2.13930120	-0.042996718	1.28852001
## Denmark	6.758297	-2.14512579	-0.005562355	0.64672492
## Sweden	6.648665	-2.02548438	-0.075061402	0.90513260
## Finland	6.511241	-2.13670917	-0.097179583	0.82755250
## Eritrea	-9.027385	1.67786767	0.158041054	1.33590317
## Somalia	-9.472981	0.02828376	-0.518160082	0.09536742
## Chad	-10.126543	-0.76132793	-1.039901256	1.95672787
## South Sudan	-10.183150	-0.13902911	-0.692942442	2.20041152
## Central African Republic	-11.074523	-4.25179065	-0.485218239	-1.14463568

```
topbotind1 <- row.names(sp4.core[order(-sp4.core$PC1),])[c(1:nup, (n-nup+1):n)]
```

```
cosp4.core[order(-cosp4.core[,2]),][c(1:kup, (k-kup+1):k),]
```



```

## PC1
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. -0.05986364
## Access.to.electricity....of.pop.. 0.17698543
## Discrimination.and.violence.against.minorities..0.low..10.high. -0.11092479
## Particulate.matter -0.12937206
## Greenhouse.gas.emissions..total.CO2.equivalents. 0.01691540
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power. 0.12553303
## Political.rights..0.no.rights..40.full.rights. 0.16055804
## Media.censorship..0.frequent..4.rare. 0.11601363
## Freedom.of.religion..0.no.freedom..4.full.freedom. 0.08742914
## Freedom.of.expression..0.no.freedom..1.full.freedom. 0.12345018
## PC2
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. 0.2616713
## Access.to.electricity....of.pop.. 0.1797031
## Discrimination.and.violence.against.minorities..0.low..10.high. 0.1354798
## Particulate.matter 0.1283185
## Greenhouse.gas.emissions..total.CO2.equivalents. 0.1224128
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power. -0.2391419
## Political.rights..0.no.rights..40.full.rights. -0.2446720
## Media.censorship..0.frequent..4.rare. -0.2934144
## Freedom.of.religion..0.no.freedom..4.full.freedom. -0.3011012
## Freedom.of.expression..0.no.freedom..1.full.freedom. -0.3159830
## PC3
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. 0.17223387
## Access.to.electricity....of.pop.. 0.06452193
## Discrimination.and.violence.against.minorities..0.low..10.high. -0.14778932
## Particulate.matter -0.04123667
## Greenhouse.gas.emissions..total.CO2.equivalents. -0.62115159
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power. -0.01651400
## Political.rights..0.no.rights..40.full.rights. -0.03773278
## Media.censorship..0.frequent..4.rare. -0.03988198
## Freedom.of.religion..0.no.freedom..4.full.freedom. 0.06082850
## Freedom.of.expression..0.no.freedom..1.full.freedom. -0.02599916
## PC4
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. -0.42794367
## Access.to.electricity....of.pop.. -0.14609109
## Discrimination.and.violence.against.minorities..0.low..10.high. 0.03164456
## Particulate.matter -0.07265399
## Greenhouse.gas.emissions..total.CO2.equivalents. -0.22763944
## Equality.of.political.power.by.socioeconomic.position..0.unequal.power..4.equal.power. -0.04260580
## Political.rights..0.no.rights..40.full.rights. -0.11490293
## Media.censorship..0.frequent..4.rare. -0.11661593
## Freedom.of.religion..0.no.freedom..4.full.freedom. -0.03415892
## Freedom.of.expression..0.no.freedom..1.full.freedom. -0.14618712

```

```

topbotPC2<-row.names(cosp4.core[order(-cosp4.core[,2]),])[c(1:kup,(k-kup+1):k)]
sp4.core[order(-sp4.core$PC2),][c(1:nup,(n-nup+1):n),]

```

```

## PC1 PC2 PC3 PC4
## China -0.2580826 7.231041 -9.65683845 -2.7758740
## Saudi Arabia -1.0323350 7.196281 0.31618898 0.5731411

```

```
## Bahrain -0.1508929 6.497134 0.63331398 0.8078687
## Turkmenistan -2.6981986 5.712816 1.68801283 -0.1190820
## Qatar 1.0982687 5.145732 1.11903836 0.6400036
## Liberia -4.3505646 -4.243035 -0.47472718 -0.2592933
## Central African Republic -11.0745233 -4.251791 -0.48521824 -1.1446357
## Benin -3.7818475 -4.607834 -0.08266105 -0.4002749
## Sierra Leone -5.4948161 -4.737386 -0.47767221 -0.5239970
## Niger -6.9299027 -4.913103 -1.25498456 0.4834563
```

```
topbotind2<-row.names(sp4.core[order(-sp4.core$PC2),])[c(1:nup,(n-nup+1):n)]
```

```
cosp4.core[order(-cosp4.core[,3]),][c(1:kup,(k-kup+1):k),]
```

```
## PC1
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. -0.14672278
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. -0.05986364
## Access.to.quality.education..0.unequal..4.equal. 0.16781792
## Access.to.quality.healthcare..0.unequal..4.equal. 0.18371498
## Mobile.telephone.subscriptions..subscriptions.100.people. 0.14495767
## Life.expectancy.at.60..years. 0.19358077
## Discrimination.and.violence.against.minorities..0.low..10.high. -0.11092479
## Access.to.online.governance..0.low..1.high. 0.17802385
## Greenhouse.gas.emissions..total.CO2.equivalents. 0.01691540
## Quality.weighted.universities..points. 0.06268489
## PC2
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. 0.0115124410
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. 0.2616713345
## Access.to.quality.education..0.unequal..4.equal. -0.0127899656
## Access.to.quality.healthcare..0.unequal..4.equal. -0.0006333655
## Mobile.telephone.subscriptions..subscriptions.100.people. 0.0725287950
## Life.expectancy.at.60..years. 0.0445171494
## Discrimination.and.violence.against.minorities..0.low..10.high. 0.1354798221
## Access.to.online.governance..0.low..1.high. 0.0362676586
## Greenhouse.gas.emissions..total.CO2.equivalents. 0.1224127934
## Quality.weighted.universities..points. 0.0561096542
## PC3
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. 0.17395939
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. 0.17223387
## Access.to.quality.education..0.unequal..4.equal. 0.13313612
## Access.to.quality.healthcare..0.unequal..4.equal. 0.12047748
## Mobile.telephone.subscriptions..subscriptions.100.people. 0.07463085
## Life.expectancy.at.60..years. -0.11146150
## Discrimination.and.violence.against.minorities..0.low..10.high. -0.14778932
## Access.to.online.governance..0.low..1.high. -0.16094428
## Greenhouse.gas.emissions..total.CO2.equivalents. -0.62115159
## Quality.weighted.universities..points. -0.63111559
## PC4
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. -0.44791089
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. -0.42794367
## Access.to.quality.education..0.unequal..4.equal. 0.02527391
## Access.to.quality.healthcare..0.unequal..4.equal. 0.02817268
## Mobile.telephone.subscriptions..subscriptions.100.people. -0.18073104
## Life.expectancy.at.60..years. 0.28157779
```

```
## Discrimination.and.violence.against.minorities..0.low..10.high.    0.03164456
## Access.to.online.governance..0.low..1.high.                      -0.03271470
## Greenhouse.gas.emissions..total.CO2.equivalents.                 -0.22763944
## Quality.weighted.universities..points.                            -0.16127101
```

```
topbotPC3<-row.names(cosp4.core[order(-cosp4.core[,3]),])[c(1:kup,(k-kup+1):k)]
sp4.core[order(sp4.core$PC3),][c(1:nup,(n-nup+1):n),]
```

	PC1	PC2	PC3	PC4
## China	-0.25808256	7.2310407	-9.656838	-2.7758740
## United States	5.34018817	0.7826096	-9.624529	-2.7315010
## India	-3.30701055	1.7166981	-2.938443	-2.7010374
## Japan	6.30046231	-0.7044957	-2.501123	0.2053205
## United Kingdom	5.69008401	-0.8682411	-2.244446	0.3859411
## Belarus	2.50876555	2.5175728	1.394053	-0.7689914
## Mongolia	0.95328680	-1.2298099	1.439344	-2.6404469
## Turkmenistan	-2.69819856	5.7128160	1.688013	-0.1190820
## Fiji	-0.01347958	0.9156490	1.699632	-2.3418239
## United Arab Emirates	0.46348321	4.5309573	1.922758	-1.4240985

```
topbotind3<-row.names(sp4.core[order(-sp4.core$PC3),])[c(1:nup,(n-nup+1):n)]
```

```
cosp4.core[order(-cosp4.core[,4]),][c(1:kup,(k-kup+1):k),]
```

	PC1
## Life.expectancy.at.60..years.	0.19358077
## Biome.protection	0.05604062
## Citable.documents	0.16242717
## Early.marriage....of.women.	-0.16053942
## Access.to.essential.services...0.none..100.full.coverage.	0.21493024
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	0.12621503
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.01691540
## Property.rights.for.women..0.no.right..5.full.rights.	0.16123368
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	-0.05986364
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	-0.14672278
	PC2
## Life.expectancy.at.60..years.	0.04451715
## Biome.protection	-0.17290179
## Citable.documents	-0.06769484
## Early.marriage....of.women.	-0.11296172
## Access.to.essential.services...0.none..100.full.coverage.	0.07892058
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power.	-0.23496953
## Greenhouse.gas.emissions..total.CO2.equivalents.	0.12241279
## Property.rights.for.women..0.no.right..5.full.rights.	-0.12712207
## Outdoor.air.pollution.attributable.deaths..deaths.100.000.	0.26167133
## Premature.deaths.from.non.communicable.diseases..deaths.100.000.	0.01151244
	PC3
## Life.expectancy.at.60..years.	-0.11146150
## Biome.protection	-0.02282135
## Citable.documents	-0.06766643
## Early.marriage....of.women.	-0.08002594
## Access.to.essential.services...0.none..100.full.coverage.	-0.03515484

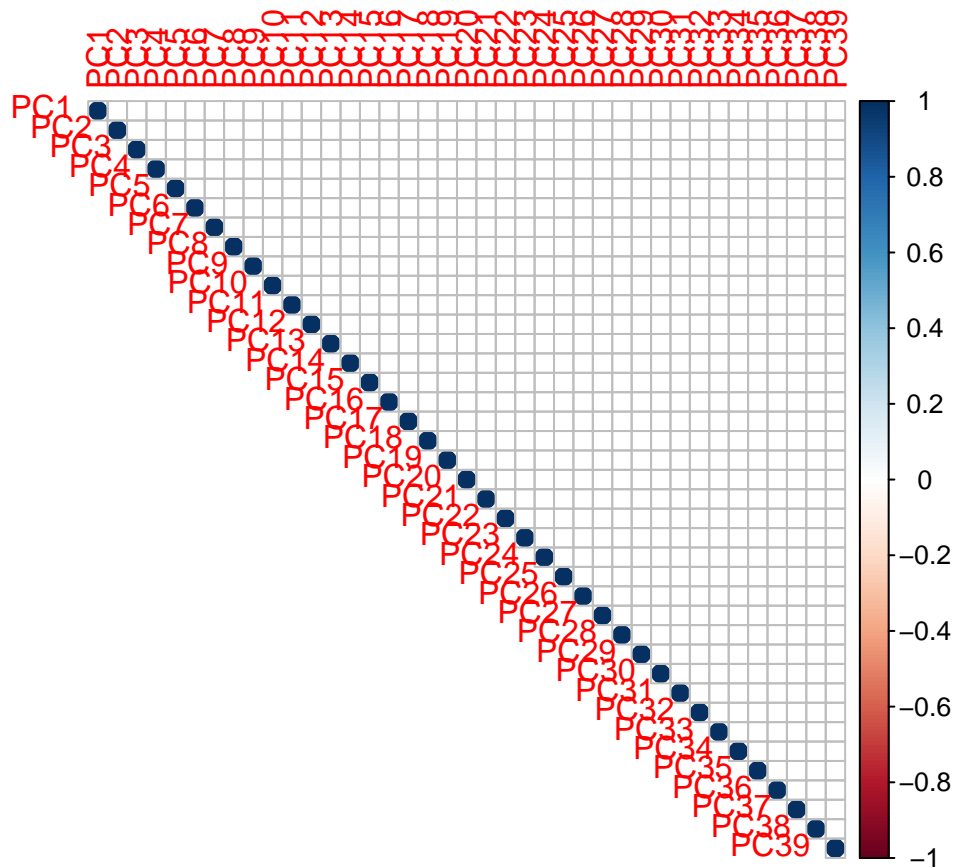
```
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power. 0.01220399
## Greenhouse.gas.emissions..total.CO2.equivalents. -0.62115159
## Property.rights.for.women..0.no.right..5.full.rights. -0.03039760
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. 0.17223387
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. 0.17395939
## PC4
## Life.expectancy.at.60..years. 0.28157779
## Biome.protection 0.27983593
## Citable.documents 0.20733351
## Early.marriage....of.women. 0.08244389
## Access.to.essential.services...0.none..100.full.coverage. 0.08155099
## Equality.of.political.power.by.social.group..0.unequal.power..4.equal.power. -0.18565355
## Greenhouse.gas.emissions..total.CO2.equivalents. -0.22763944
## Property.rights.for.women..0.no.right..5.full.rights. -0.23542362
## Outdoor.air.pollution.attributable.deaths..deaths.100.000. -0.42794367
## Premature.deaths.from.non.communicable.diseases..deaths.100.000. -0.44791089
```

```
topbotPC4<-row.names(cosp4.core[order(-cosp4.core[,3]),])[c(1:kup,(k-kup+1):k)]
sp4.core[order(-sp4.core$PC4),][c(1:nup,(n-nup+1):n),]
```

##	PC1	PC2	PC3	PC4
## Nicaragua	-1.1726535	2.2695806	-0.2521986	3.172631
## Ethiopia	-5.4336289	-1.7461726	-0.7769574	2.229207
## South Sudan	-10.1831495	-0.1390291	-0.6929424	2.200412
## Equatorial Guinea	-4.5227472	2.0999084	0.4116400	2.112474
## Singapore	4.9140678	1.5828576	0.3827098	1.974843
## Lesotho	-4.2726931	-2.6792715	1.3440481	-2.700107
## India	-3.3070106	1.7166981	-2.9384433	-2.701037
## United States	5.3401882	0.7826096	-9.6245291	-2.731501
## China	-0.2580826	7.2310407	-9.6568384	-2.775874
## Papua New Guinea	-6.7983417	-2.8806752	1.0543052	-3.976078

```
topbotind4<-row.names(sp4.core[order(-sp4.core$PC4),])[c(1:nup,(n-nup+1):n)]
```

```
# Check that there is no correlation.
corspipec <- cor(pr.out.core$x)
corrplot(corspipec, type = "upper")
```

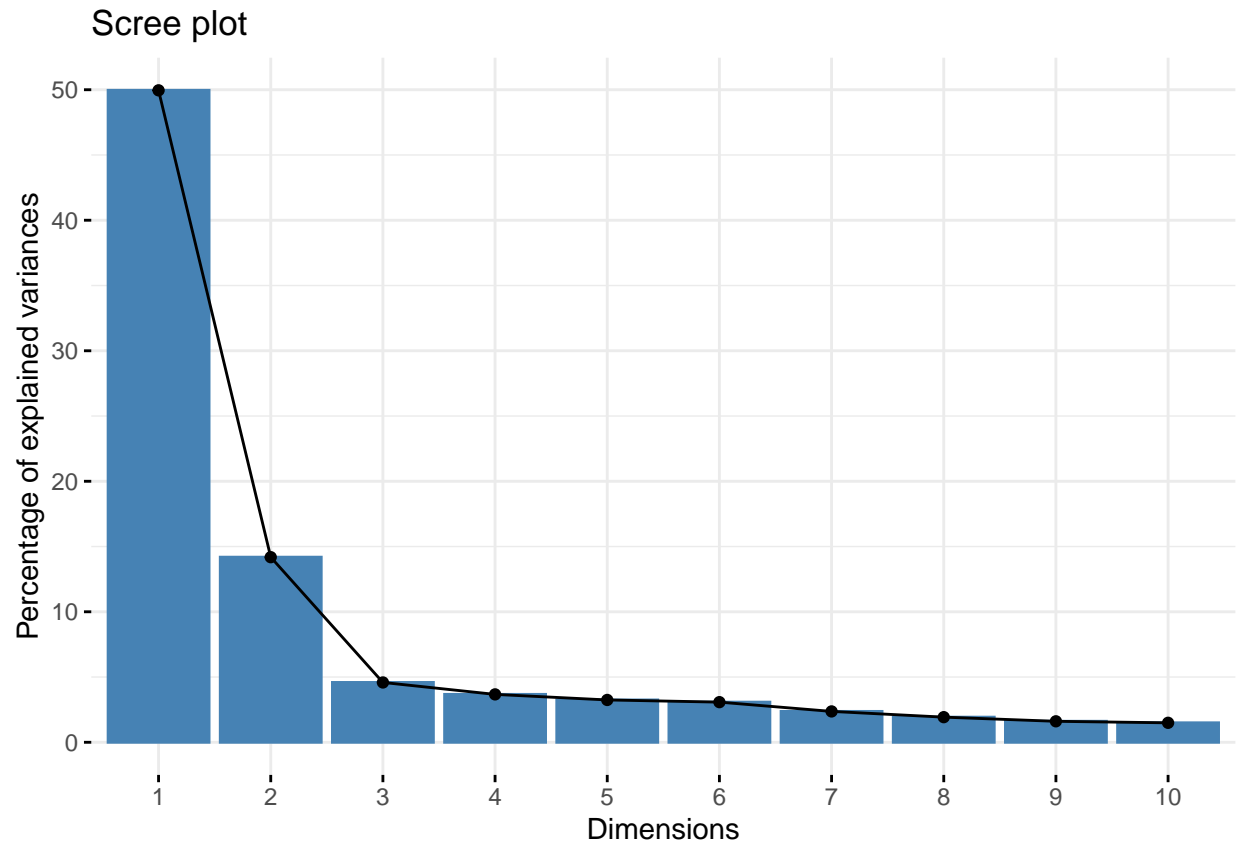


PC1: Foundations of well-being, health and wellness (+), ... Basic human needs: lack of water and sanitation/shelter (-) PC2: Opportunity, lack of personal rights (-), ... Foundations of well-being, environment quality (+) PC3: ...

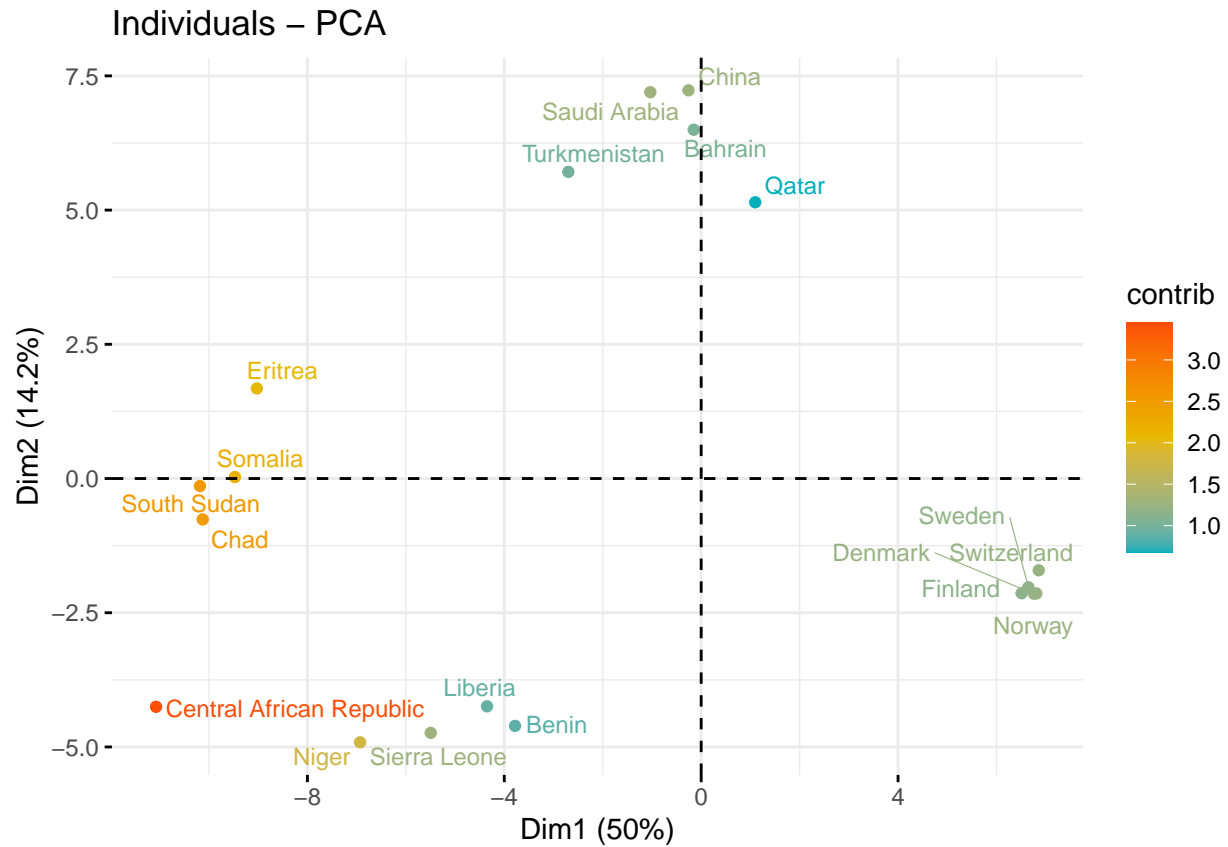
Now we do some plotting

```
library(factoextra)

# scree plot
fviz_eig(pr.out.core)
```

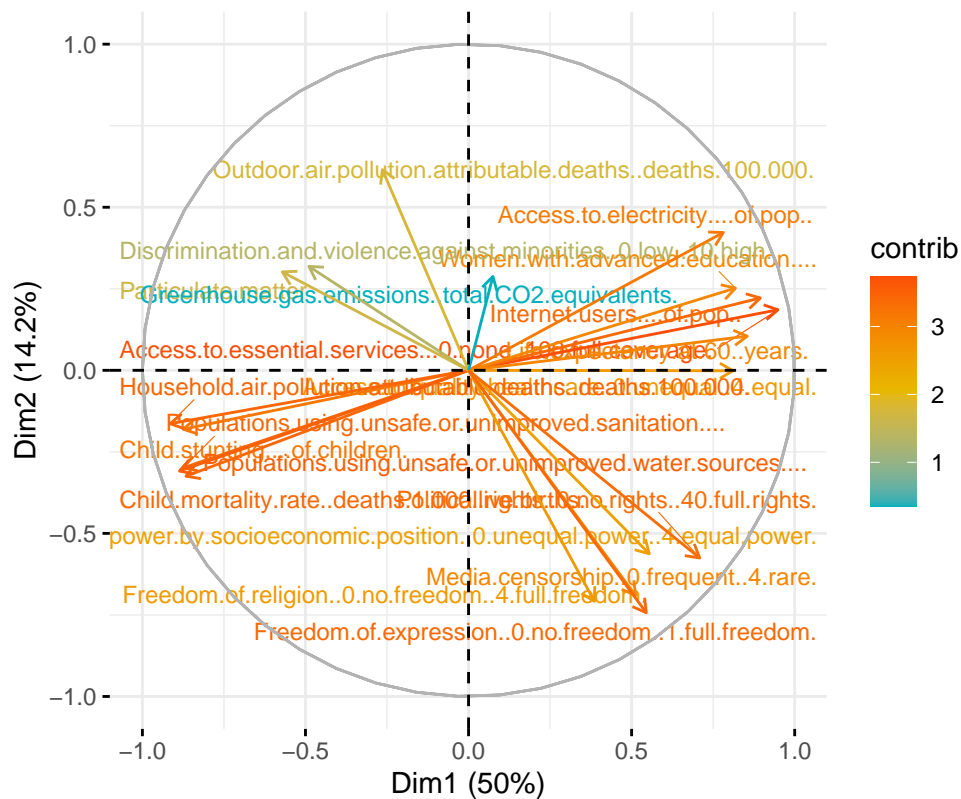


```
# gives individual countries (elements) plotted against two selected principal components
# selected PC1 and PC2 in this case, then PC3 and PC4
# Graph of Individuals
# each point represents the correlation between the original variable and the individual PCs respective
fviz_pca_ind(pr.out.core, labelsiz = 3,
  col.ind = "contrib", # Color by the quality of representation
  gradient.cols = c("#00AFBB", "#E7B800", "#FC4E07"),
  geom = c("point", "text"),
  #select.ind = list(cos2 = 30),
  select.ind = list(name = c(topbotind1, topbotind2)),
  repel = TRUE      # Avoid text overlapping
)
```



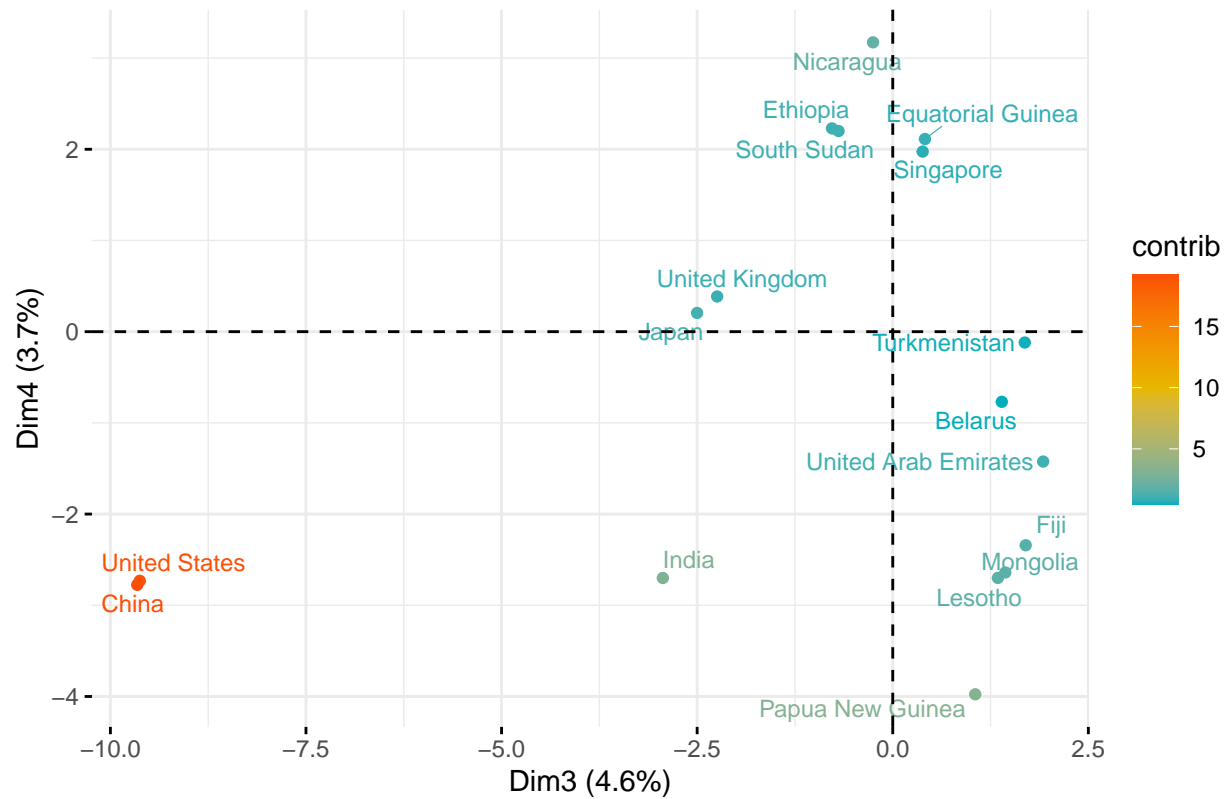
```
# size of loadings of PC1 and PC2
# Graph of variables
# a loading plot shows how strongly a variable x influences a principal component
fviz_pca_var(pr.out.core, labelsize = 3,
  col.var = "contrib", # Color by contributions to the PC
  gradient.cols = c("#00AFBB", "#E7B800", "#FC4E07"),
  select.var = list(name = c(topbotPC1, topbotPC2)),
  repel = TRUE      # Avoid text overlapping
)
```

Variables – PCA

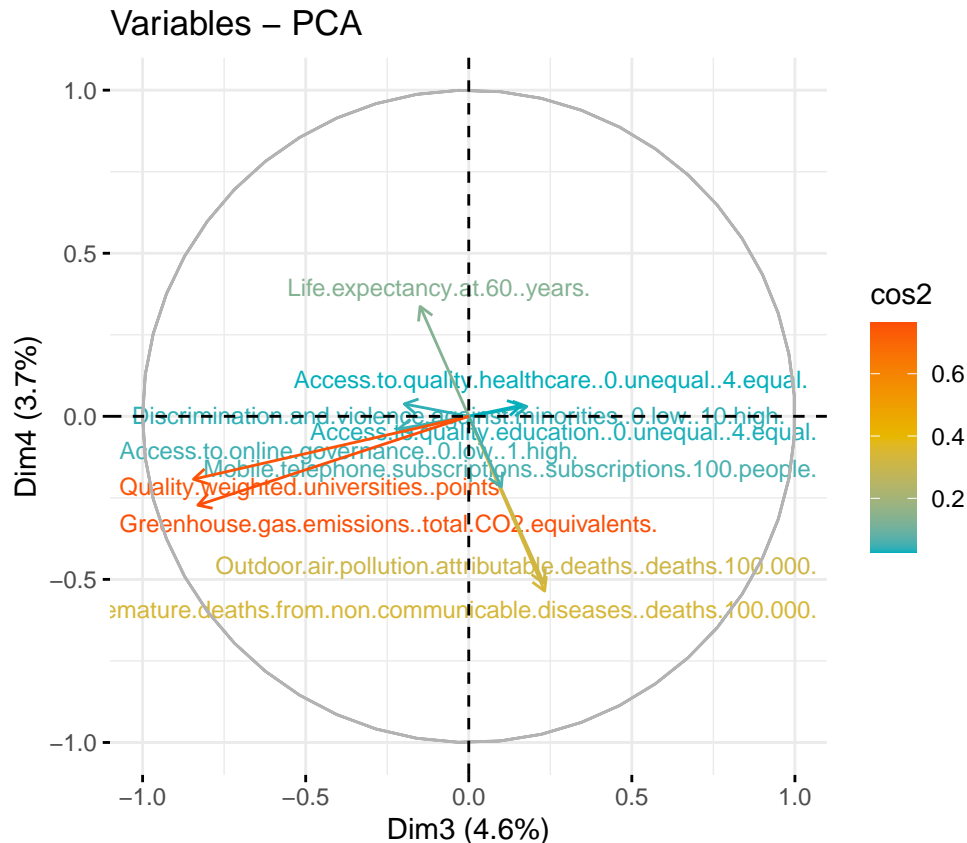


```
fviz_pca_ind(pr.out.core, labelsize = 3,
             col.ind = "contrib", # Color by the quality of representation
             axes = c(3,4),
             gradient.cols = c("#00AFBB", "#E7B800", "#FC4E07"),
             geom = c("point", "text"),
             #select.ind = list(cos2 = 30),
             #theme(text = element_text(size = 2)),
             select.ind = list(name = c(topbotind3, topbotind4)),
             repel = TRUE         # Avoid text overlapping
             )
```


Individuals – PCA



```
fviz_pca_var(pr.out.core, labelsiz = 3,
  col.var = "cos2", # Color by contributions to the PC
  gradient.cols = c("#00AFBB", "#E7B800", "#FC4E07"),
  axes = c(3, 4),
  select.var = list(name = c(topbotPC3, topbotPC4)),
  repel = TRUE      # Avoid text overlapping
)
```



Can we come up with a rank based on the PCAs. We can just use the first PCA. In general it is not suggested that we add scores from different PCAs ... but if we still go ahead and do that for one more.

```
# compare PC1 between the social progress index and our own PCA
spi_ae <- data.frame(sp4.core[,1]) # -sp4.core[,2]) #-sp4.core[,3]+sp4.core[,4])
rownames(spi_ae) <- rownames(sp4.core)
# the rank is based on the z_i score
spi_ae$rank <- rank(-spi_ae)
spi_ae$spirank <- spirank
colnames(spi_ae) <- c("Score", "Rank AE", "Rank SPI")
spi_ae[order(spi_ae[,2]),]
```

##	Score	Rank AE	Rank SPI
## Switzerland	6.858366016	1	6
## Norway	6.808963943	2	1
## Denmark	6.758296779	3	2
## Sweden	6.648665147	4	5
## Finland	6.511241009	5	3
## Iceland	6.417116916	6	9
## Luxembourg	6.400102729	7	14
## Japan	6.300462310	8	13
## Canada	6.227915882	9	7
## Germany	6.215779083	10	11
## Netherlands	6.156763114	11	10
## New Zealand	6.091512885	12	4
## Australia	6.091251944	13	8

## Ireland	6.018024302	14	12
## Belgium	5.903223390	15	16
## Italy	5.879754369	16	23
## Cyprus	5.779926793	17	26
## Austria	5.752147745	18	15
## Korea, Republic of	5.727791781	19	17
## France	5.693032256	20	18
## United Kingdom	5.690084012	21	20
## Spain	5.647994673	22	19
## Estonia	5.631085988	23	24
## Slovenia	5.514211425	24	22
## Portugal	5.467520664	25	21
## United States	5.340188173	26	28
## Greece	5.236126051	27	27
## Czechia	5.176712659	28	25
## Malta	4.986349222	29	30
## Singapore	4.914067780	30	29
## Lithuania	4.763810417	31	32
## Poland	4.527890501	32	31
## Israel	4.466583351	33	33
## Costa Rica	4.423160779	34	37
## Uruguay	4.336103738	35	38
## Slovakia	4.223591568	36	36
## Latvia	4.146459494	37	35
## Croatia	4.134634131	38	39
## Chile	3.779431537	39	34
## Barbados	3.668463455	40	42
## Kuwait	3.478355305	41	46
## Hungary	3.424153642	42	40
## Mauritius	3.407142720	43	44
## Bulgaria	3.268886721	44	43
## Argentina	3.267324364	45	41
## Trinidad and Tobago	3.092317741	46	51
## Romania	2.747807663	47	45
## Jamaica	2.736418655	48	57
## Armenia	2.700793774	49	50
## Montenegro	2.604828060	50	58
## Panama	2.564567171	51	49
## Belarus	2.508765554	52	47
## Albania	2.435364096	53	54
## Serbia	2.363414790	54	52
## Tunisia	2.247367538	55	55
## Republic of North Macedonia	2.194596311	56	65
## Malaysia	2.135678187	57	48
## Bosnia and Herzegovina	2.069035697	58	66
## Georgia	1.970882265	59	56
## Sri Lanka	1.866707990	60	64
## Ecuador	1.665390522	61	53
## Peru	1.635711839	62	59
## Moldova	1.606516109	63	68
## Cabo Verde	1.573803157	64	71
## Ukraine	1.534377134	65	63
## Russia	1.467954616	66	69
## Maldives	1.376333710	67	78

## Colombia	1.309940549	68	60
## Mexico	1.282293773	69	62
## Kazakhstan	1.201324853	70	67
## Brazil	1.150498865	71	61
## Jordan	1.111173472	72	73
## Qatar	1.098268681	73	81
## Suriname	1.033962422	74	75
## Paraguay	1.026623481	75	70
## Oman	0.959648627	76	74
## Mongolia	0.953286795	77	76
## Lebanon	0.806520127	78	85
## Cuba	0.741215514	79	72
## Thailand	0.510542149	80	79
## United Arab Emirates	0.463483210	81	80
## Dominican Republic	0.457007423	82	77
## South Africa	0.355862699	83	82
## El Salvador	0.294579103	84	94
## Bhutan	0.151888979	85	91
## Algeria	0.150069301	86	83
## Botswana	0.146957483	87	86
## Kyrgyzstan	0.113600242	88	89
## Guyana	-0.009909926	89	96
## Fiji	-0.013479582	90	90
## Bolivia	-0.038118878	91	87
## Vietnam	-0.077200514	92	88
## Bahrain	-0.150892872	93	99
## Turkey	-0.196704351	94	92
## China	-0.258082562	95	100
## Indonesia	-0.309085306	96	84
## Iran	-0.655581199	97	93
## Namibia	-0.661047011	98	95
## Iraq	-0.703170541	99	107
## Morocco	-0.825531952	100	97
## Ghana	-0.871282756	101	103
## Uzbekistan	-0.874431635	102	102
## Philippines	-0.965494212	103	98
## Saudi Arabia	-1.032335009	104	101
## Gabon	-1.168972642	105	106
## Nicaragua	-1.172653484	106	105
## Honduras	-1.386884756	107	108
## Azerbaijan	-1.548059871	108	104
## Guatemala	-1.738918913	109	109
## Timor-Leste	-1.900980186	110	110
## Senegal	-2.291673326	111	111
## Turkmenistan	-2.698198558	112	113
## Egypt	-3.066911109	113	112
## Tanzania	-3.157194994	114	119
## India	-3.307010555	115	117
## Gambia, The	-3.324075431	116	124
## Nepal	-3.358205399	117	114
## Kenya	-3.370772786	118	115
## Myanmar	-3.468892053	119	120
## Cambodia	-3.578618937	120	118
## Benin	-3.781847459	121	121

## Tajikistan	-3.844464500	122	116
## Rwanda	-3.857561949	123	125
## Togo	-4.024608466	124	129
## Zambia	-4.074317642	125	122
## Malawi	-4.226881253	126	126
## Lesotho	-4.272693139	127	127
## Côte d'Ivoire	-4.277015257	128	128
## Bangladesh	-4.282099598	129	123
## Liberia	-4.350564571	130	135
## Korea, Democratic Republic of	-4.438184664	131	139
## Equatorial Guinea	-4.522747195	132	138
## Uganda	-4.569256758	133	130
## Nigeria	-4.597118599	134	136
## Djibouti	-4.911736226	135	146
## Mauritania	-5.008774963	136	143
## Sudan	-5.091111107	137	147
## Cameroon	-5.129854050	138	137
## Eswatini	-5.219484494	139	131
## Haiti	-5.323312569	140	144
## Zimbabwe	-5.360065124	141	132
## Laos	-5.362861894	142	133
## Burkina Faso	-5.423518485	143	140
## Ethiopia	-5.433628915	144	145
## Angola	-5.445748459	145	151
## Mali	-5.456532336	146	150
## Sierra Leone	-5.494816102	147	134
## Mozambique	-5.671098530	148	142
## Pakistan	-5.883831725	149	141
## Madagascar	-5.926532663	150	148
## Congo, Republic of	-6.101033603	151	149
## Guinea-Bissau	-6.462991642	152	152
## Papua New Guinea	-6.798341728	153	153
## Niger	-6.929902726	154	157
## Afghanistan	-7.049627694	155	155
## Congo, Democratic Republic of	-7.261323692	156	156
## Guinea	-7.646872169	157	154
## Burundi	-8.000736393	158	158
## Eritrea	-9.027384755	159	160
## Somalia	-9.472981196	160	159
## Chad	-10.126542704	161	162
## South Sudan	-10.183149538	162	163
## Central African Republic	-11.074523258	163	161

End of PCA Analysis for Social Progress data.