

# COUNTRIES OF THE WORLD

2023-02-19

## DESCRIPTION

The dataset describes about the countries of the world.

The attributes are

- Country
- Population
- Area
- Literacy
- Climate
- Birthrate
- Deathrate
- Agriculture
- Industry
- Service

```
df=read.csv('datasets_23752_30346_countries of the world.csv')
#View(df)
summary(df)
```

##	Country	Population	Area	
##	Literacy			
##	Length:227	Min. :7.026e+03	Min. :	2
##	Length:227			
##	Class :character	1st Qu.:4.376e+05	1st Qu.:	4648 Class
##	:character			
##	Mode :character	Median :4.787e+06	Median :	86600 Mode
##	:character			
##		Mean :2.874e+07	Mean :	598227
##		3rd Qu.:1.750e+07	3rd Qu.:	441811

```

##           Max.      :1.314e+09   Max.      :17075200
##   Climate      Birthrate      Deathrate
Agriculture
## Length:227      Length:227      Length:227
Length:227
## Class :character Class :character Class :character Class
:character
## Mode :character Mode :character Mode :character Mode
:character
##
##
##
##   Industry      Service
## Length:227      Length:227
## Class :character Class :character
## Mode :character Mode :character
##
##
##

str(df)

## 'data.frame':   227 obs. of  10 variables:
## $ Country      : chr  "Afghanistan" "Albania" "Algeria" "American
Samoa" ...
## $ Population   : int   31056997 3581655 32930091 57794 71201
12127071 13477 69108 39921833 2976372 ...
## $ Area         : int   647500 28748 2381740 199 468 1246700 102 443
2766890 29800 ...
## $ Literacy     : chr   "36,0" "86,5" "70,0" "97,0" ...
## $ Climate      : chr   "1" "3" "1" "2" ...
## $ Birthrate    : chr   "46,6" "15,11" "17,14" "22,46" ...
## $ Deathrate    : chr   "20,34" "5,22" "4,61" "3,27" ...
## $ Agriculture  : chr   "0,38" "0,232" "0,101" "" ...
## $ Industry     : chr   "0,24" "0,188" "0,6" "" ...
## $ Service      : chr   "0,38" "0,579" "0,298" "" ...

names(df)

## [1] "Country"      "Population"   "Area"         "Literacy"
"Climate"
## [6] "Birthrate"    "Deathrate"    "Agriculture"  "Industry"
"Service"

#dimension
dim(df)

## [1] 227  10

#subsetting the dataset
library(dplyr)

##
## Attaching package: 'dplyr'

```

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

```
##
```

```
## filter, lag
```

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

```
##
```

```
## intersect, setdiff, setequal, union
```

```
library(lattice)
```

```
#View five rows of df
```

```
head(df)
```

```
##          Country Population      Area Literacy Climate Birthrate  
Deathrate
```

```
## 1  Afghanistan  31056997  647500      36,0         1      46,6  
20,34
```

```
## 2      Albania   3581655   28748      86,5         3      15,11  
5,22
```

```
## 3      Algeria  32930091 2381740      70,0         1      17,14  
4,61
```

```
## 4 American Samoa      57794      199      97,0         2      22,46  
3,27
```

```
## 5      Andorra     71201      468     100,0         3       8,71  
6,25
```

```
## 6      Angola   12127071 1246700      42,0              45,11  
24,2
```

```
## Agriculture Industry Service
```

```
## 1      0,38      0,24      0,38
```

```
## 2      0,232     0,188     0,579
```

```
## 3      0,101      0,6      0,298
```

```
## 4
```

```
## 5
```

```
## 6      0,096     0,658     0,246
```

```
#filter the data 5
```

```
head(df)
```

```
##          Country Population      Area Literacy Climate Birthrate  
Deathrate
```

```
## 1  Afghanistan  31056997  647500      36,0         1      46,6  
20,34
```

```
## 2      Albania   3581655   28748      86,5         3      15,11  
5,22
```

```
## 3      Algeria  32930091 2381740      70,0         1      17,14  
4,61
```

```
## 4 American Samoa      57794      199      97,0         2      22,46  
3,27
```

```
## 5      Andorra     71201      468     100,0         3       8,71  
6,25
```

```
## 6      Angola   12127071 1246700      42,0              45,11  
24,2
```

```
## Agriculture Industry Service
```

```
## 1      0,38      0,24      0,38
```

```
## 2      0,232     0,188     0,579
```

```
## 3      0,101      0,6      0,298
```

```
## 4
## 5
## 6      0,096      0,658      0,246
```

```
tail(df)
```

```
##          Country Population      Area Literacy Climate
Birthrate Deathrate
## 222 Wallis and Futuna      16025      274      50,0      2
## 223           West Bank  2460492    5860              3
31,67      3,92
## 224 Western Sahara      273008 266000              1
## 225           Yemen  21456188 527970      50,2      1
42,89      8,3
## 226           Zambia  11502010 752614      80,6      2
41      19,93
## 227           Zimbabwe  12236805 390580      90,7      2
28,01      21,84
##      Agriculture Industry Service
## 222
## 223      0,09      0,28      0,63
## 224              0,4
## 225      0,135      0,472      0,393
## 226      0,22      0,29      0,489
## 227      0,179      0,243      0,579
```

*#remove the null values*

```
na.omit(df)
```

```
##          Country Population      Area Literacy
Climate
## 1          Afghanistan  31056997  647500      36,0
1
## 2          Albania      3581655   28748      86,5
3
## 3          Algeria      32930091 2381740      70,0
1
## 4      American Samoa      57794      199      97,0
2
## 5          Andorra      71201      468     100,0
3
## 6          Angola      12127071 1246700      42,0
## 7          Anguilla      13477      102      95,0
2
## 8      Antigua & Barbuda      69108      443      89,0
2
## 9          Argentina  39921833 2766890      97,1
3
## 10         Armenia      2976372   29800      98,6
4
## 11         Aruba      71891      193      97,0
2
## 12        Australia  20264082 7686850     100,0
1
## 13         Austria      8192880   83870      98,0
```

3					
## 14		Azerbaijan	7961619	86600	97,0
1					
## 15		Bahamas, The	303770	13940	95,6
2					
## 16		Bahrain	698585	665	89,1
1					
## 17		Bangladesh	147365352	144000	43,1
2					
## 18		Barbados	279912	431	97,4
2					
## 19		Belarus	10293011	207600	99,6
4					
## 20		Belgium	10379067	30528	98,0
3					
## 21		Belize	287730	22966	94,1
2					
## 22		Benin	7862944	112620	40,9
2					
## 23		Bermuda	65773	53	98,0
2					
## 24		Bhutan	2279723	47000	42,2
2					
## 25		Bolivia	8989046	1098580	87,2
1,5					
## 26		Bosnia & Herzegovina	4498976	51129	
4					
## 27		Botswana	1639833	600370	79,8
1					
## 28		Brazil	188078227	8511965	86,4
2					
## 29		British Virgin Is.	23098	153	97,8
2					
## 30		Brunei	379444	5770	93,9
2					
## 31		Bulgaria	7385367	110910	98,6
3					
## 32		Burkina Faso	13902972	274200	26,6
2					
## 33		Burma	47382633	678500	85,3
2					
## 34		Burundi	8090068	27830	51,6
2					
## 35		Cambodia	13881427	181040	69,4
2					
## 36		Cameroon	17340702	475440	79,0
1,5					
## 37		Canada	33098932	9984670	97,0
## 38		Cape Verde	420979	4033	76,6
3					
## 39		Cayman Islands	45436	262	98,0
2					
## 40		Central African Rep.	4303356	622984	51,0
2					

## 41		Chad	9944201	1284000	47,5
2					
## 42		Chile	16134219	756950	96,2
3					
## 43		China	1313973713	9596960	90,9
1,5					
## 44		Colombia	43593035	1138910	92,5
2					
## 45		Comoros	690948	2170	56,5
2					
## 46		Congo, Dem. Rep.	62660551	2345410	65,5
2					
## 47		Congo, Repub. of the	3702314	342000	83,8
2					
## 48		Cook Islands	21388	240	95,0
2					
## 49		Costa Rica	4075261	51100	96,0
2					
## 50		Cote d'Ivoire	17654843	322460	50,9
2					
## 51		Croatia	4494749	56542	98,5
## 52		Cuba	11382820	110860	97,0
2					
## 53		Cyprus	784301	9250	97,6
3					
## 54		Czech Republic	10235455	78866	99,9
3					
## 55		Denmark	5450661	43094	100,0
3					
## 56		Djibouti	486530	23000	67,9
1					
## 57		Dominica	68910	754	94,0
2					
## 58		Dominican Republic	9183984	48730	84,7
2					
## 59		East Timor	1062777	15007	58,6
2					
## 60		Ecuador	13547510	283560	92,5
2					
## 61		Egypt	78887007	1001450	57,7
1					
## 62		El Salvador	6822378	21040	80,2
2					
## 63		Equatorial Guinea	540109	28051	85,7
2					
## 64		Eritrea	4786994	121320	58,6
1,5					
## 65		Estonia	1324333	45226	99,8
3					
## 66		Ethiopia	74777981	1127127	42,7
2					
## 67		Faroe Islands	47246	1399	
## 68		Fiji	905949	18270	93,7
2					

## 69 3	Finland	5231372	338145	100,0
## 70 4	France	60876136	547030	99,0
## 71 2	French Guiana	199509	91000	83,0
## 72 2	French Polynesia	274578	4167	98,0
## 73 2	Gabon	1424906	267667	63,2
## 74 2	Gambia, The	1641564	11300	40,1
## 75 3	Gaza Strip	1428757	360	
## 76 3	Georgia	4661473	69700	99,0
## 77 3	Germany	82422299	357021	99,0
## 78 2	Ghana	22409572	239460	74,8
## 79	Gibraltar	27928	7	
## 80 3	Greece	10688058	131940	97,5
## 81 1	Greenland	56361	2166086	
## 82 2	Grenada	89703	344	98,0
## 83 2	Guadeloupe	452776	1780	90,0
## 84 2	Guam	171019	541	99,0
## 85 2	Guatemala	12293545	108890	70,6
## 86 3	Guernsey	65409	78	
## 87 2	Guinea	9690222	245857	35,9
## 88 2	Guinea-Bissau	1442029	36120	42,4
## 89 2	Guyana	767245	214970	98,8
## 90 2	Haiti	8308504	27750	52,9
## 91 2	Honduras	7326496	112090	76,2
## 92 2	Hong Kong	6940432	1092	93,5
## 93 3	Hungary	9981334	93030	99,4
## 94 3	Iceland	299388	103000	99,9
## 95 2,5	India	1095351995	3287590	59,5
## 96	Indonesia	245452739	1919440	87,9

2					
## 97		Iran	68688433	1648000	79,4
1					
## 98		Iraq	26783383	437072	40,4
1					
## 99		Ireland	4062235	70280	98,0
3					
## 100		Isle of Man	75441	572	
3					
## 101		Israel	6352117	20770	95,4
3					
## 102		Italy	58133509	301230	98,6
## 103		Jamaica	2758124	10991	87,9
2					
## 104		Japan	127463611	377835	99,0
3					
## 105		Jersey	91084	116	
3					
## 106		Jordan	5906760	92300	91,3
1					
## 107		Kazakhstan	15233244	2717300	98,4
4					
## 108		Kenya	34707817	582650	85,1
1,5					
## 109		Kiribati	105432	811	
2					
## 110		Korea, North	23113019	120540	99,0
3					
## 111		Korea, South	48846823	98480	97,9
3					
## 112		Kuwait	2418393	17820	83,5
1					
## 113		Kyrgyzstan	5213898	198500	97,0
2,5					
## 114		Laos	6368481	236800	66,4
2					
## 115		Latvia	2274735	64589	99,8
3					
## 116		Lebanon	3874050	10400	87,4
## 117		Lesotho	2022331	30355	84,8
3					
## 118		Liberia	3042004	111370	57,5
2					
## 119		Libya	5900754	1759540	82,6
## 120		Liechtenstein	33987	160	100,0
4					
## 121		Lithuania	3585906	65200	99,6
## 122		Luxembourg	474413	2586	100,0
## 123		Macau	453125	28	94,5
2					
## 124		Macedonia	2050554	25333	
3					
## 125		Madagascar	18595469	587040	68,9
2					



## 126	Malawi	13013926	118480	62,7
2				
## 127	Malaysia	24385858	329750	88,7
2				
## 128	Maldives	359008	300	97,2
2				
## 129	Mali	11716829	1240000	46,4
2				
## 130	Malta	400214	316	92,8
## 131	Marshall Islands	60422	11854	93,7
2				
## 132	Martinique	436131	1100	97,7
2				
## 133	Mauritania	3177388	1030700	41,7
1				
## 134	Mauritius	1240827	2040	85,6
2				
## 135	Mayotte	201234	374	
2				
## 136	Mexico	107449525	1972550	92,2
1,5				
## 137	Micronesia, Fed. St.	108004	702	89,0
2				
## 138	Moldova	4466706	33843	99,1
## 139	Monaco	32543	2	99,0
## 140	Mongolia	2832224	1564116	97,8
1				
## 141	Montserrat	9439	102	97,0
2				
## 142	Morocco	33241259	446550	51,7
## 143	Mozambique	19686505	801590	47,8
2				
## 144	Namibia	2044147	825418	84,0
1				
## 145	Nauru	13287	21	
2				
## 146	Nepal	28287147	147181	45,2
## 147	Netherlands	16491461	41526	99,0
3				
## 148	Netherlands Antilles	221736	960	96,7
2				
## 149	New Caledonia	219246	19060	91,0
2				
## 150	New Zealand	4076140	268680	99,0
3				
## 151	Nicaragua	5570129	129494	67,5
2				
## 152	Niger	12525094	1267000	17,6
1				
## 153	Nigeria	131859731	923768	68,0
1,5				
## 154	N. Mariana Islands	82459	477	97,0
2				
## 155	Norway	4610820	323802	100,0

3					
## 156		Oman	3102229	212460	75,8
1					
## 157		Pakistan	165803560	803940	45,7
1					
## 158		Palau	20579	458	92,0
2					
## 159		Panama	3191319	78200	92,6
2					
## 160		Papua New Guinea	5670544	462840	64,6
2					
## 161		Paraguay	6506464	406750	94,0
2					
## 162		Peru	28302603	1285220	90,9
1,5					
## 163		Philippines	89468677	300000	92,6
2					
## 164		Poland	38536869	312685	99,8
3					
## 165		Portugal	10605870	92391	93,3
3					
## 166		Puerto Rico	3927188	13790	94,1
2					
## 167		Qatar	885359	11437	82,5
1					
## 168		Reunion	787584	2517	88,9
2					
## 169		Romania	22303552	237500	98,4
3					
## 170		Russia	142893540	17075200	99,6
## 171		Rwanda	8648248	26338	70,4
3					
## 172		Saint Helena	7502	413	97,0
## 173		Saint Kitts & Nevis	39129	261	97,0
2					
## 174		Saint Lucia	168458	616	67,0
2					
## 175		St Pierre & Miquelon	7026	242	99,0
## 176		Saint Vincent and the Grenadines	117848	389	96,0
2					
## 177		Samoa	176908	2944	99,7
2					
## 178		San Marino	29251	61	96,0
## 179		Sao Tome & Principe	193413	1001	79,3
2					
## 180		Saudi Arabia	27019731	1960582	78,8
1					
## 181		Senegal	11987121	196190	40,2
2					
## 182		Serbia	9396411	88361	93,0
## 183		Seychelles	81541	455	58,0
2					
## 184		Sierra Leone	6005250	71740	31,4
2					

## 185 2	Singapore	4492150	693	92,5
## 186 3	Slovakia	5439448	48845	
## 187	Slovenia	2010347	20273	99,7
## 188 2	Solomon Islands	552438	28450	
## 189 1	Somalia	8863338	637657	37,8
## 190 1	South Africa	44187637	1219912	86,4
## 191 3	Spain	40397842	504782	97,9
## 192 2	Sri Lanka	20222240	65610	92,3
## 193 2	Sudan	41236378	2505810	61,1
## 194 2	Suriname	439117	163270	93,0
## 195 2,5	Swaziland	1136334	17363	81,6
## 196 3	Sweden	9016596	449964	99,0
## 197 3	Switzerland	7523934	41290	99,0
## 198 1	Syria	18881361	185180	76,9
## 199 2	Taiwan	23036087	35980	96,1
## 200 2	Tajikistan	7320815	143100	99,4
## 201	Tanzania	37445392	945087	78,2
## 202 2	Thailand	64631595	514000	92,6
## 203 2	Togo	5548702	56785	60,9
## 204 2	Tonga	114689	748	98,5
## 205 2	Trinidad & Tobago	1065842	5128	98,6
## 206 3	Tunisia	10175014	163610	74,2
## 207 3	Turkey	70413958	780580	86,5
## 208 1	Turkmenistan	5042920	488100	98,0
## 209 2	Turks & Caicos Is	21152	430	98,0
## 210 2	Tuvalu	11810	26	
## 211 2	Uganda	28195754	236040	69,9
## 212 3	Ukraine	46710816	603700	99,7

## 213	United Arab Emirates	2602713	82880	77,9	
1					
## 214	United Kingdom	60609153	244820	99,0	
3					
## 215	US	298444215	9631420	97,0	
3					
## 216	Uruguay	3431932	176220	98,0	
3					
## 217	Uzbekistan	27307134	447400	99,3	
1					
## 218	Vanuatu	208869	12200	53,0	
2					
## 219	Venezuela	25730435	912050	93,4	
2					
## 220	Vietnam	84402966	329560	90,3	
2					
## 221	Virgin Islands	108605	1910		
2					
## 222	Wallis and Futuna	16025	274	50,0	
2					
## 223	West Bank	2460492	5860		
3					
## 224	Western Sahara	273008	266000		
1					
## 225	Yemen	21456188	527970	50,2	
1					
## 226	Zambia	11502010	752614	80,6	
2					
## 227	Zimbabwe	12236805	390580	90,7	
2					
##	Birthrate	Deathrate	Agriculture	Industry	Service
## 1	46,6	20,34	0,38	0,24	0,38
## 2	15,11	5,22	0,232	0,188	0,579
## 3	17,14	4,61	0,101	0,6	0,298
## 4	22,46	3,27			
## 5	8,71	6,25			
## 6	45,11	24,2	0,096	0,658	0,246
## 7	14,17	5,34	0,04	0,18	0,78
## 8	16,93	5,37	0,038	0,22	0,743
## 9	16,73	7,55	0,095	0,358	0,547
## 10	12,07	8,23	0,239	0,343	0,418
## 11	11,03	6,68	0,004	0,333	0,663
## 12	12,14	7,51	0,038	0,262	0,7
## 13	8,74	9,76	0,018	0,304	0,678
## 14	20,74	9,75	0,141	0,457	0,402
## 15	17,57	9,05	0,03	0,07	0,9
## 16	17,8	4,14	0,005	0,387	0,608
## 17	29,8	8,27	0,199	0,198	0,603
## 18	12,71	8,67	0,06	0,16	0,78
## 19	11,16	14,02	0,093	0,316	0,591
## 20	10,38	10,27	0,01	0,24	0,749
## 21	28,84	5,72	0,142	0,152	0,612
## 22	38,85	12,22	0,316	0,138	0,546
## 23	11,4	7,74	0,01	0,1	0,89

## 24	33,65	12,7	0,258	0,379	0,363
## 25	23,3	7,53	0,128	0,352	0,52
## 26	8,77	8,27	0,142	0,308	0,55
## 27	23,08	29,5	0,024	0,469	0,507
## 28	16,56	6,17	0,084	0,4	0,516
## 29	14,89	4,42	0,018	0,062	0,92
## 30	18,79	3,45	0,036	0,561	0,403
## 31	9,65	14,27	0,093	0,304	0,603
## 32	45,62	15,6	0,322	0,196	0,482
## 33	17,91	9,83	0,564	0,082	0,353
## 34	42,22	13,46	0,463	0,203	0,334
## 35	26,9	9,06	0,35	0,3	0,35
## 36	33,89	13,47	0,448	0,17	0,382
## 37	10,78	7,8	0,022	0,294	0,684
## 38	24,87	6,55	0,121	0,219	0,66
## 39	12,74	4,89	0,014	0,032	0,954
## 40	33,91	18,65	0,55	0,2	0,25
## 41	45,73	16,38	0,335	0,259	0,406
## 42	15,23	5,81	0,06	0,493	0,447
## 43	13,25	6,97	0,125	0,473	0,403
## 44	20,48	5,58	0,125	0,342	0,533
## 45	36,93	8,2	0,4	0,04	0,56
## 46	43,69	13,27	0,55	0,11	0,34
## 47	42,57	12,93	0,062	0,57	0,369
## 48	21		0,151	0,096	0,753
## 49	18,32	4,36	0,088	0,299	0,614
## 50	35,11	14,84	0,279	0,171	0,55
## 51	9,61	11,48	0,07	0,308	0,622
## 52	11,89	7,22	0,055	0,261	0,684
## 53	12,56	7,68	0,037	0,198	0,765
## 54	9,02	10,59	0,034	0,393	0,573
## 55	11,13	10,36	0,018	0,246	0,735
## 56	39,53	19,31	0,179	0,225	0,596
## 57	15,27	6,73	0,177	0,328	0,495
## 58	23,22	5,73	0,112	0,306	0,582
## 59	26,99	6,24	0,085	0,231	0,684
## 60	22,29	4,23	0,07	0,312	0,618
## 61	22,94	5,23	0,149	0,357	0,493
## 62	26,61	5,78	0,099	0,302	0,599
## 63	35,59	15,06	0,03	0,906	0,062
## 64	34,33	9,6	0,102	0,254	0,643
## 65	10,04	13,25	0,04	0,294	0,666
## 66	37,98	14,86	0,475	0,099	0,426
## 67	14,05	8,7	0,27	0,11	0,62
## 68	22,55	5,65	0,089	0,135	0,776
## 69	10,45	9,86	0,028	0,295	0,676
## 70	11,99	9,14	0,022	0,214	0,764
## 71	20,46	4,88	0,066	0,156	0,778
## 72	16,68	4,69	0,031	0,19	0,769
## 73	36,16	12,25	0,061	0,592	0,348
## 74	39,37	12,25	0,308	0,142	0,549
## 75	39,45	3,8	0,03	0,283	0,687
## 76	10,41	9,23	0,172	0,275	0,553
## 77	8,25	10,62	0,009	0,296	0,695

## 78	30,52	9,72	0,366	0,246	0,387
## 79	10,74	9,31			
## 80	9,68	10,24	0,054	0,213	0,733
## 81	15,93	7,84			
## 82	22,08	6,88	0,054	0,18	0,766
## 83	15,05	6,09	0,15	0,17	0,68
## 84	18,79	4,48			
## 85	29,88	5,2	0,227	0,188	0,585
## 86	8,81	10,01	0,03	0,1	0,87
## 87	41,76	15,48	0,237	0,362	0,401
## 88	37,22	16,53	0,62	0,12	0,26
## 89	18,28	8,28	0,37	0,203	0,427
## 90	36,44	12,17	0,28	0,2	0,52
## 91	28,24	5,28	0,139	0,312	0,549
## 92	7,29	6,29	0,001	0,092	0,906
## 93	9,72	13,11	0,037	0,312	0,651
## 94	13,64	6,72	0,086	0,15	0,765
## 95	22,01	8,18	0,186	0,276	0,538
## 96	20,34	6,25	0,134	0,458	0,408
## 97	17	5,55	0,116	0,424	0,46
## 98	31,98	5,37	0,073	0,666	0,261
## 99	14,45	7,82	0,05	0,46	0,49
## 100	11,05	11,19	0,01	0,13	0,86
## 101	17,97	6,18	0,026	0,317	0,657
## 102	8,72	10,4	0,021	0,291	0,688
## 103	20,82	6,52	0,049	0,337	0,615
## 104	9,37	9,16	0,017	0,258	0,725
## 105	9,3	9,28	0,05	0,02	0,93
## 106	21,25	2,65	0,033	0,287	0,68
## 107	16	9,42	0,067	0,386	0,547
## 108	39,72	14,02	0,163	0,188	0,651
## 109	30,65	8,26	0,089	0,242	0,668
## 110	15,54	7,13	0,3	0,34	0,36
## 111	10	5,85	0,033	0,403	0,563
## 112	21,94	2,41	0,004	0,479	0,516
## 113	22,8	7,08	0,353	0,208	0,439
## 114	35,49	11,55	0,455	0,287	0,258
## 115	9,24	13,66	0,04	0,261	0,699
## 116	18,52	6,21	0,12	0,21	0,67
## 117	24,75	28,71	0,163	0,443	0,394
## 118	44,77	23,1	0,769	0,054	0,177
## 119	26,49	3,48	0,076	0,499	0,425
## 120	10,21	7,18	0,06	0,39	0,55
## 121	8,75	10,98	0,055	0,325	0,62
## 122	11,94	8,41	0,01	0,13	0,86
## 123	8,48	4,47	0,001	0,072	0,927
## 124	12,02	8,77	0,118	0,319	0,563
## 125	41,41	11,11	0,276	0,165	0,559
## 126	43,13	19,33	0,342	0,158	0,499
## 127	22,86	5,05	0,084	0,48	0,436
## 128	34,81	7,06	0,2	0,18	0,62
## 129	49,82	16,89	0,45	0,17	0,38
## 130	10,22	8,1	0,03	0,23	0,74
## 131	33,05	4,78	0,317	0,149	0,534

## 132	13,74	6,48	0,06	0,11	0,83
## 133	40,99	12,16	0,25	0,29	0,46
## 134	15,43	6,86	0,059	0,298	0,643
## 135	40,95	7,7			
## 136	20,69	4,74	0,038	0,259	0,702
## 137	24,68	4,75	0,289	0,152	0,559
## 138	15,7	12,64	0,213	0,233	0,555
## 139	9,19	12,91	0,17		
## 140	21,59	6,95	0,206	0,214	0,58
## 141	17,59	7,1			
## 142	21,98	5,58	0,217	0,357	0,426
## 143	35,18	21,35	0,262	0,348	0,39
## 144	24,32	18,86	0,097	0,315	0,588
## 145	24,76	6,7			
## 146	30,98	9,31	0,38	0,21	0,41
## 147	10,9	8,68	0,021	0,244	0,736
## 148	14,78	6,45	0,01	0,15	0,84
## 149	18,11	5,69	0,15	0,088	0,762
## 150	13,76	7,53	0,043	0,273	0,684
## 151	24,51	4,45	0,165	0,275	0,56
## 152	50,73	20,91	0,39	0,17	0,44
## 153	40,43	16,94	0,269	0,487	0,244
## 154	19,43	2,29			
## 155	11,46	9,4	0,021	0,415	0,564
## 156	36,24	3,81	0,027	0,39	0,583
## 157	29,74	8,23	0,216	0,251	0,533
## 158	18,03	6,8	0,062	0,12	0,818
## 159	21,74	5,36	0,068	0,156	0,776
## 160	29,36	7,25	0,353	0,381	0,266
## 161	29,1	4,49	0,224	0,207	0,569
## 162	20,48	6,23	0,08	0,27	0,65
## 163	24,89	5,41	0,144	0,326	0,53
## 164	9,85	9,89	0,05	0,311	0,64
## 165	10,72	10,5	0,053	0,274	0,673
## 166	12,77	7,65	0,01	0,45	0,54
## 167	15,56	4,72	0,002	0,801	0,197
## 168	18,9	5,49	0,08	0,19	0,73
## 169	10,7	11,77	0,101	0,35	0,549
## 170	9,95	14,65	0,054	0,371	0,575
## 171	40,37	16,09	0,401	0,229	0,37
## 172	12,13	6,53			
## 173	18,02	8,33	0,035	0,258	0,707
## 174	19,68	5,08	0,07	0,2	0,73
## 175	13,52	6,83			
## 176	16,18	5,98	0,1	0,26	0,64
## 177	16,43	6,62	0,114	0,584	0,302
## 178	10,02	8,17			
## 179	40,25	6,47	0,167	0,148	0,684
## 180	29,34	2,58	0,033	0,613	0,354
## 181	32,78	9,42	0,172	0,209	0,619
## 182			0,166	0,255	0,579
## 183	16,03	6,29	0,032	0,304	0,665
## 184	45,76	23,03	0,49	0,31	0,21
## 185	9,34	4,28	0	0,339	0,661

```

## 186      10,65      9,45      0,035      0,294      0,672
## 187       8,98     10,31      0,028      0,369      0,603
## 188     30,01      3,92      0,42       0,11      0,47
## 189     45,13     16,63      0,65       0,1      0,25
## 190      18,2      22      0,025      0,303      0,671
## 191     10,06      9,72      0,04      0,295      0,665
## 192     15,51      6,52      0,178      0,276      0,545
## 193     34,53      8,97      0,387      0,203      0,41
## 194     18,02      7,27      0,13      0,22      0,65
## 195     27,41     29,74      0,119      0,515      0,366
## 196     10,27     10,31      0,011      0,282      0,707
## 197       9,71      8,49      0,015      0,34      0,645
## 198     27,76      4,81      0,249      0,23      0,519
## 199     12,56      6,48      0,018      0,259      0,723
## 200     32,65      8,25      0,234      0,286      0,48
## 201     37,71     16,39      0,432      0,172      0,396
## 202     13,87      7,04      0,099      0,441      0,46
## 203     37,01      9,83      0,395      0,204      0,401
## 204     25,37      5,28      0,23      0,27      0,5
## 205      12,9     10,57      0,007      0,57      0,423
## 206     15,52      5,13      0,132      0,318      0,55
## 207     16,62      5,97      0,117      0,298      0,585
## 208     27,61      8,6      0,209      0,38      0,411
## 209     21,84      4,21
## 210     22,18      7,11      0,166      0,272      0,562
## 211     47,35     12,24      0,311      0,222      0,469
## 212       8,82     14,39      0,187      0,452      0,361
## 213     18,96      4,4      0,04      0,585      0,375
## 214     10,71     10,13      0,005      0,237      0,758
## 215     14,14      8,26      0,01      0,204      0,787
## 216     13,91      9,05      0,093      0,311      0,596
## 217     26,36      7,84      0,342      0,229      0,43
## 218     22,72      7,82      0,26      0,12      0,62
## 219     18,71      4,92      0,04      0,419      0,541
## 220     16,86      6,22      0,209      0,41      0,381
## 221     13,96      6,43      0,01      0,19      0,8
## 222
## 223     31,67      3,92      0,09      0,28      0,63
## 224
## 225     42,89      8,3      0,135      0,472      0,393
## 226       41     19,93      0,22      0,29      0,489
## 227     28,01     21,84      0,179      0,243      0,579

```

```
library(lattice)
```

```
#histogram
```

```
histogram(~Climate|Agriculture,data=df)
```

```
## Warning in extend.limits(range(as.numeric(x), finite = TRUE),
prop = 0.04): NAs
```

```
## introduced by coercion
```

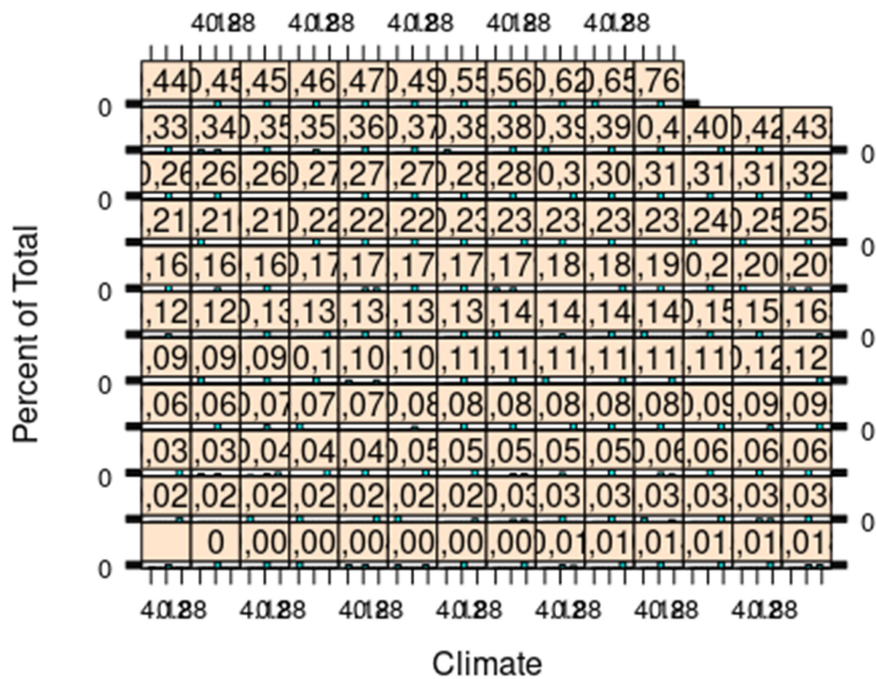
```
## Warning in hist(as.numeric(x), breaks = breaks, plot = FALSE,
include.lowest =
```

```
## include.lowest, : NAs introduced by coercion
```

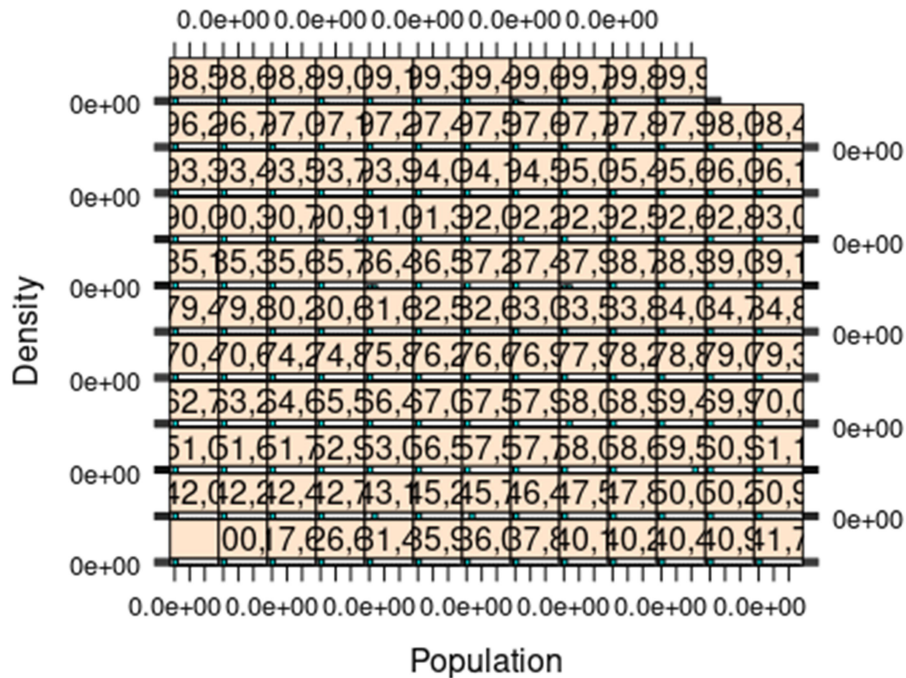


[illegible]

[illegible]



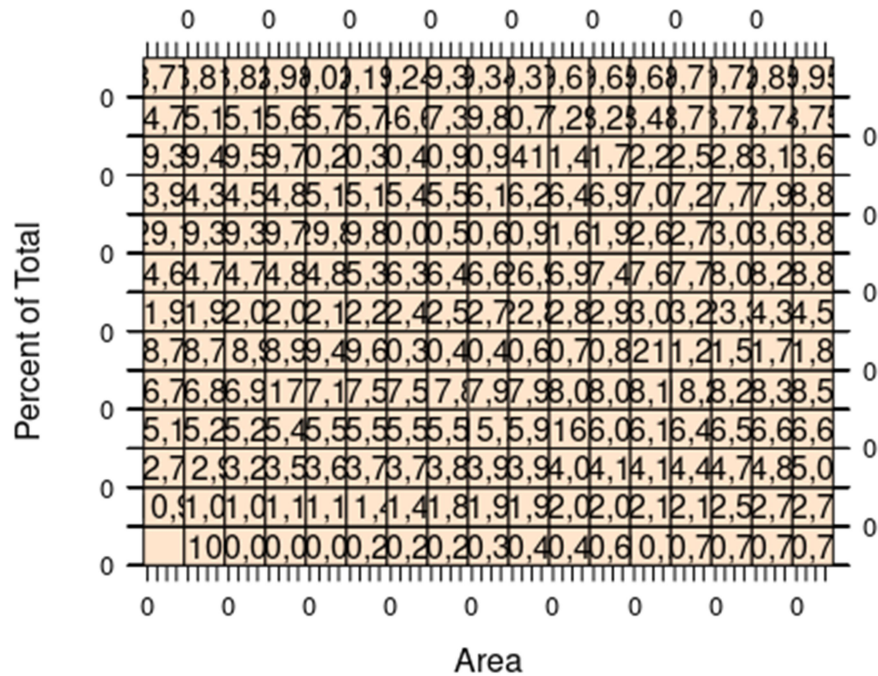
```
attach(df)
histogram(~Population|Literacy,data=df)
```



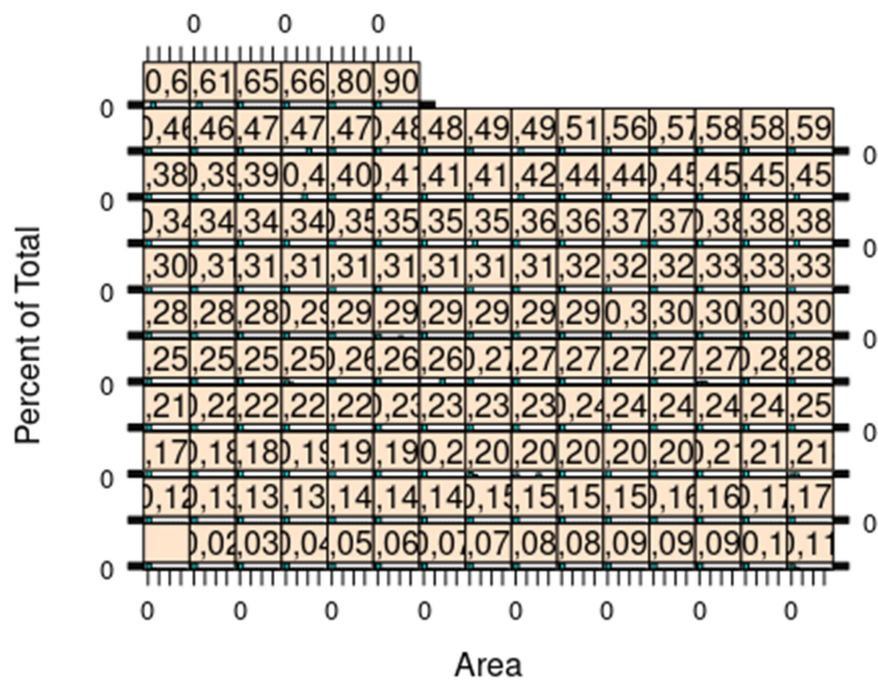
```
attach(df)

## The following objects are masked from df (pos = 3):
##
```

```
## Agriculture, Area, Birthrate, Climate, Country, Deathrate,
## Industry, Literacy, Population, Service
histogram(~Area|Birthrate,data=df)
```

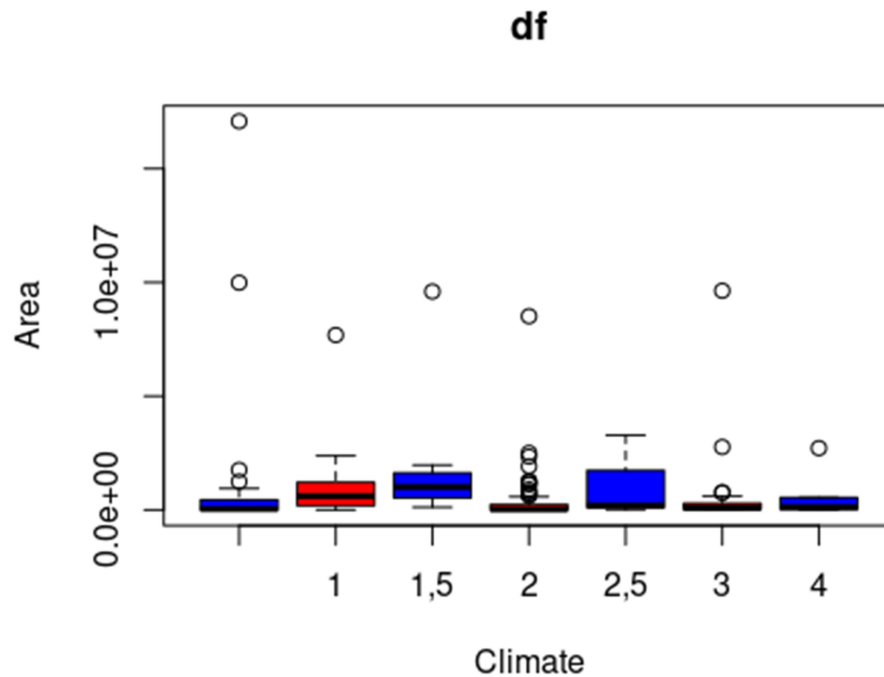


```
histogram(~Area|Industry,data=df)
```



```
hist1 = histogram(~Area|Climate,df,col = "green",breaks = 20)

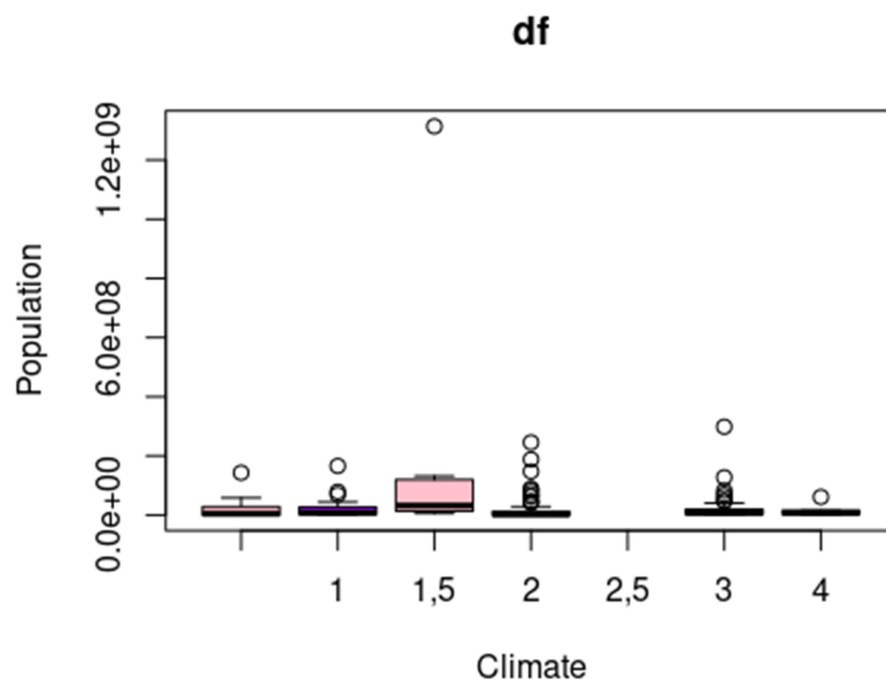
#boxplot
boxplot(Area~Climate,data=df,breaks=20,col=c('blue','red'),main='df'
)
```



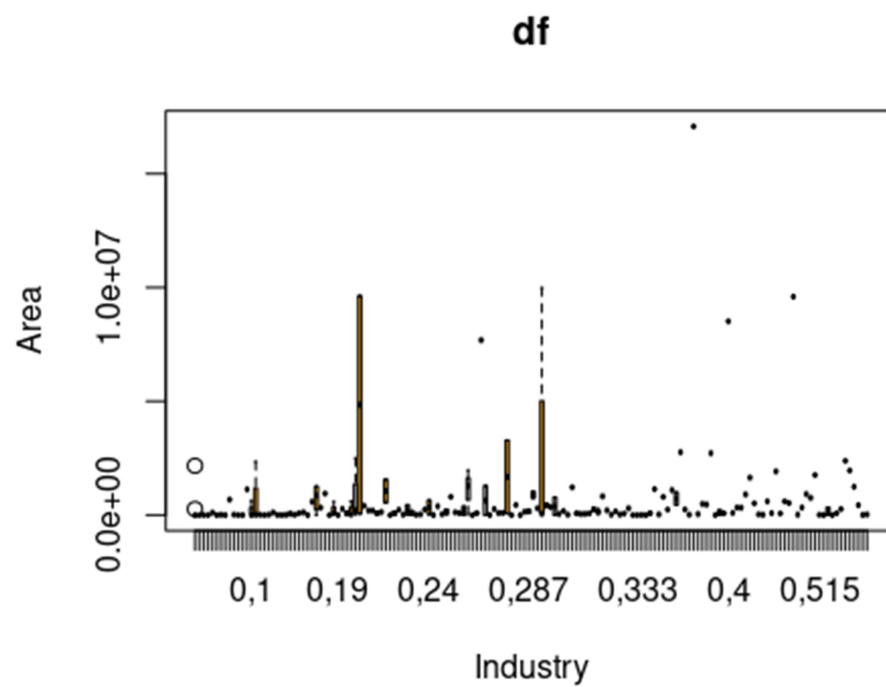
```
boxplot(Population~Climate,data=df,breaks=50,col=c('pink','purple'),
main='df')
```

```
## Warning in x[floor(d)] + x[ceiling(d)]: NAs produced by integer
overflow
```

```
## Warning in x[floor(d)] + x[ceiling(d)]: NAs produced by integer
overflow
```

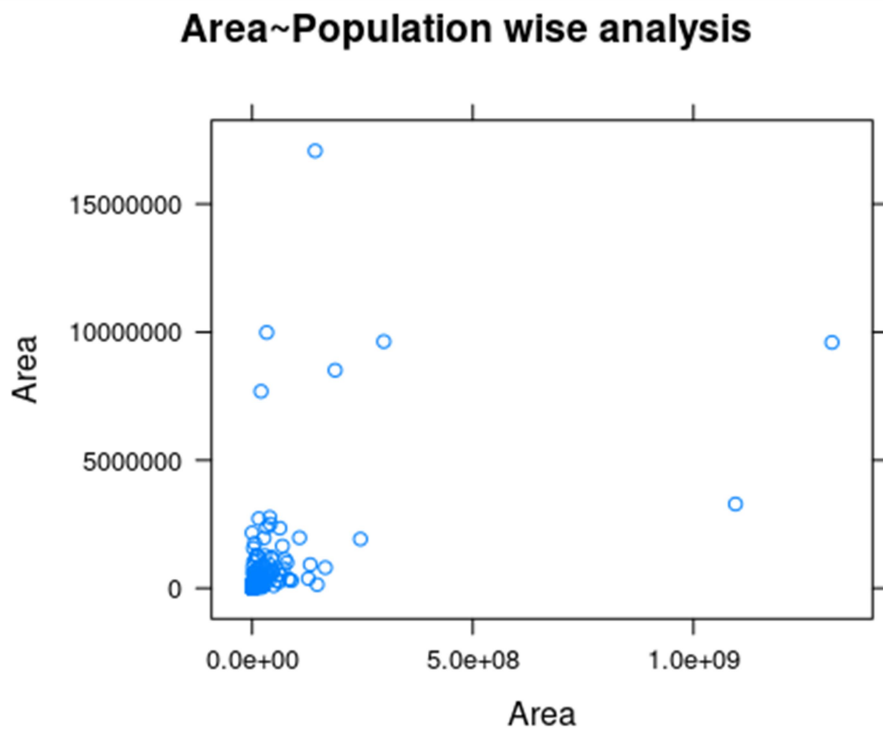


```
boxplot(Area~Industry,data=df,breaks=80,col=c('orange','grey'),main='df')
```



```
#scatterplot  
xyplot(Area~Population,main='Area~Population wise')
```

```
analysis', xlab='Area', yplot='Population', df)
```



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

## **Assumption:**

**I assumed that according to the Climate, Agriculture changes.**

**Then assumed how many literacy people are there in a population.**

**In a country, for a particular area, there are how many birthrate .**

**Then, in a particular area, there are how many Industries.**

## **Hypotheses:**

**In this dataset, there is a correlation between the climate and Agriculture. And there is a correlation between Population and Literacy.**

**There are more literacy in a population. So, there are doing Agriculture.**

**So in a particular area, there are more literacy people. And this can be analyzed by Histogram. There are more Industries, but the services are low due to literacy.**

### **Insights:**

**From the dataset, due to more literacy in a population there are doing Agriculture. Birthrate is high in some Area. So there are many literacy.**

**Agriculture changes according to the Climate.**

**Eventhough, there are many Industries, the service is very few.**

**This happens due to literacy.**

### **Inference:**

**From the dataset, There are many countries, in which some Areas there are more literacy in a population, due to high birthrate. Birthrate is equal to the Deathrate. Agriculture also make them change according to the Climatic change. Eventhough, many Industries in some Areas, the Service level is low.**