

Final-Project-Analysis

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4/1/2019

Cleaned data and setting up environment with dataset

```
#set whatever directory you have your data in  
setwd("/Users/raphaelchevallier/Documents/DATA311/DATA311Project")  
data = read.csv("Cost_of_living_index.csv", header = TRUE)  
attach(data)  
data
```

##	Rank	City	Cost.of.Living.Index
## 1	1	Hamilton, Bermuda	137.56
## 2	2	Zurich, Switzerland	128.65
## 3	3	Basel, Switzerland	126.89
## 4	4	Lausanne, Switzerland	119.62
## 5	5	Bern, Switzerland	118.42
## 6	6	Geneva, Switzerland	118.33
## 7	7	Reykjavik, Iceland	112.57
## 8	8	Lugano, Switzerland	111.88
## 9	9	Stavanger, Norway	111.00
## 10	10	Oslo, Norway	107.14
## 11	11	Bergen, Norway	102.87
## 12	12	New York, NY, United States	100.00
## 13	13	Trondheim, Norway	99.73
## 14	14	San Francisco, CA, United States	96.88
## 15	15	Honolulu, HI, United States	93.72
## 16	16	Anchorage, AK, United States	93.19
## 17	17	Brooklyn, NY, United States	90.31
## 18	18	Washington, DC, United States	88.50
## 19	19	Santa Rosa, CA, United States	88.27
## 20	20	Copenhagen, Denmark	87.91
## 21	21	Charleston, SC, United States	86.87
## 22	22	Luxembourg, Luxembourg	86.85
## 23	23	Bellevue, WA, United States	85.97
## 24	24	Seattle, WA, United States	85.51
## 25	25	Tokyo, Japan	84.78
## 26	26	Paris, France	84.68
## 27	27	Odense, Denmark	84.09
## 28	28	Berkeley, CA, United States	84.09
## 29	29	Jersey City, NJ, United States	84.08
## 30	30	Aalborg, Denmark	82.21
## 31	31	Amsterdam, Netherlands	82.14
## 32	32	Seoul, South Korea	81.96
## 33	33	Arhus, Denmark	81.94
## 34	34	London, United Kingdom	81.31
## 35	35	Oakland, CA, United States	81.18
## 36	36	Helsinki, Finland	80.60
## 37	37	Boston, MA, United States	80.46
## 38	38	Singapore, Singapore	80.40
## 39	39	Dublin, Ireland	80.28
## 40	40	Sydney, Australia	79.93
## 41	41	Hartford, CT, United States	79.85
## 42	42	Albany, NY, United States	79.38
## 43	43	Philadelphia, PA, United States	79.25
## 44	44	Tampere, Finland	79.04
## 45	45	Milton Keynes, United Kingdom	78.50
## 46	46	Grenoble, France	78.43
## 47	47	Irvine, CA, United States	78.38
## 48	48	Lyon, France	78.00
## 49	49	Long Beach, CA, United States	77.95
## 50	50	Linz, Austria	77.80
## 51	51	Los Angeles, CA, United States	77.66
## 52	52	Tel Aviv-Yafo, Israel	77.39
## 53	53	Barrie, Canada	77.37
## 54	54	Chicago, IL, United States	77.33
## 55	55	Stockholm, Sweden	77.23
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## 56	56	Florence, Italy	77.21
## 57	57	Boulder, CO, United States	77.16
## 58	58	The Hague (Den Haag), Netherlands	76.75
## 59	59	Reading, United Kingdom	76.73
## 60	60	Auckland, New Zealand	76.63
## 61	61	Jerusalem, Israel	76.62
## 62	62	Bordeaux, France	76.31
## 63	63	Utrecht, Netherlands	76.30
## 64	64	Toulouse, France	76.30
## 65	65	San Jose, CA, United States	76.28
## 66	66	Burlington, VT, United States	76.11
## 67	67	Pittsburgh, PA, United States	76.04
## 68	68	Nice, France	75.84
## 69	69	Miami, FL, United States	75.83
## 70	70	Brussels, Belgium	75.69
## 71	71	Graz, Austria	75.61
## 72	72	Santa Barbara, CA, United States	75.55
## 73	73	Sacramento, CA, United States	75.54
## 74	74	Strasbourg, France	75.47
## 75	75	Genoa, Italy	75.38
## 76	76	Gent, Belgium	75.27
## 77	77	Perth, Australia	75.09
## 78	78	Antwerp, Belgium	74.88
## 79	79	Portland, ME, United States	74.81
## 80	80	West Palm Beach, FL, United States	74.79
## 81	81	Hong Kong, Hong Kong	74.73
## 82	82	Innsbruck, Austria	74.66
## 83	83	Leuven, Belgium	74.58
## 84	84	Leiden, Netherlands	74.56
## 85	85	Osaka, Japan	74.53
## 86	86	Melbourne, Australia	74.53
## 87	87	Bath, United Kingdom	74.48
## 88	88	Everett, WA, United States	74.36
## 89	89	Saskatoon, Canada	74.26
## 90	90	Tacoma, WA, United States	74.21
## 91	91	Portland, OR, United States	74.17
## 92	92	Rotterdam, Netherlands	74.08
## 93	93	Montpellier, France	74.08
## 94	94	St. John's, NL, Canada	74.05
## 95	95	Milan, Italy	73.89
## 96	96	Maastricht, Netherlands	73.87
## 97	97	Baltimore, MD, United States	73.85
## 98	98	Munich, Germany	73.79
## 99	99	Espoo, Finland	73.78
## 100	100	New Orleans, LA, United States	73.61
## 101	101	Galway, Ireland	73.54
## 102	102	Cork, Ireland	73.53
## 103	103	Padova, Italy	73.49
## 104	104	Haifa, Israel	73.42
## 105	105	Charlotte, NC, United States	73.33
## 106	106	Burlington, Canada	73.13
## 107	107	Aberdeen, United Kingdom	73.02
## 108	108	Dusseldorf, Germany	73.00
## 109	109	Minneapolis, MN, United States	72.93
## 110	110	Adelaide, Australia	72.92
## 111	111	Eindhoven, Netherlands	72.82
## 112	112	Cambridge, United Kingdom	72.60
## 113	113	Oxford, United Kingdom	72.60
## 114	114	Darwin, Australia	72.47
## 115	115	Eugene, OR, United States	72.46
## 116	116	Nantes, France	72.37
## 117	117	Groningen, Netherlands	72.29
## 118	118	San Diego, CA, United States	72.29
## 119	119	Ramat Gan, Israel	72.15
## 120	120	Hamburg, Germany	72.15
## 121	121	Bellingham, WA, United States	72.14
## 122	122	Atlanta, GA, United States	72.05
## 123	123	Denver, CO, United States	72.02
## 124	124	Saint Paul, MN, United States	71.94
## 125	125	Hamilton, New Zealand	71.91
## 126	126	Birmingham, AL, United States	71.87
## 127	127	Frankfurt, Germany	71.64
## 128	128	Wellington, New Zealand	71.52

## 129	129	Asheville, NC, United States	71.52
## 130	130	Trieste, Italy	71.51
## 131	131	Fort Myers, FL, United States	71.50
## 132	132	Newcastle, Australia	71.42
## 133	133	Portsmouth, United Kingdom	71.04
## 134	134	Halifax, Canada	70.88
## 135	135	Vienna, Austria	70.86
## 136	136	Heidelberg, Germany	70.82
## 137	137	Indianapolis, IN, United States	70.79
## 138	138	Edinburgh, United Kingdom	70.73
## 139	139	Jacksonville, FL, United States	70.62
## 140	140	Buffalo, NY, United States	70.59
## 141	141	Olympia, WA, United States	70.57
## 142	142	Saint Petersburg, FL, United States	70.49
## 143	143	Austin, TX, United States	70.49
## 144	144	Brisbane, Australia	70.46
## 145	145	Male, Maldives	70.45
## 146	146	Sliema, Malta	70.33
## 147	147	Rochester, NY, United States	70.25
## 148	148	Christchurch, New Zealand	70.23
## 149	149	Toronto, Canada	70.19
## 150	150	Orlando, FL, United States	70.18
## 151	151	Dunedin, New Zealand	70.16
## 152	152	Turku, Finland	70.13
## 153	153	Plymouth, United Kingdom	70.02
## 154	154	Swindon, United Kingdom	69.92
## 155	155	Canberra, Australia	69.88
## 156	156	Manchester, United Kingdom	69.86
## 157	157	Peoria, IL, United States	69.84
## 158	158	Gothenburg, Sweden	69.77
## 159	159	Cleveland, OH, United States	69.65
## 160	160	Vancouver, Canada	69.63
## 161	161	Limerick, Ireland	69.63
## 162	162	Bristol, United Kingdom	69.58
## 163	163	Brighton, United Kingdom	69.54
## 164	164	Bologna, Italy	69.50
## 165	165	York, United Kingdom	69.33
## 166	166	Karlsruhe, Germany	69.26
## 167	167	Raleigh, NC, United States	69.18
## 168	168	Bonn, Germany	69.14
## 169	169	Hobart, Australia	69.10
## 170	170	Arlington, TX, United States	69.07
## 171	171	Rome, Italy	69.03
## 172	172	Saint Louis, MO, United States	69.02
## 173	173	Bremen, Germany	68.93
## 174	174	Calgary, Canada	68.93
## 175	175	Milwaukee, WI, United States	68.81
## 176	176	Brampton, Canada	68.79
## 177	177	Nashville, TN, United States	68.78
## 178	178	Uppsala, Sweden	68.75
## 179	179	Tampa, FL, United States	68.61
## 180	180	Regina, Canada	68.46
## 181	181	Mannheim, Germany	68.35
## 182	182	Leeds, United Kingdom	68.26
## 183	183	Virginia Beach, VA, United States	67.86
## 184	184	Berlin, Germany	67.75
## 185	185	Lille, France	67.73
## 186	186	Syracuse, NY, United States	67.55
## 187	187	Stuttgart, Germany	67.46
## 188	188	Coquitlam, Canada	67.43
## 189	189	Red Deer, Canada	67.42
## 190	190	Cologne, Germany	67.36
## 191	191	Aachen, Germany	67.33
## 192	192	Tallahassee, FL, United States	67.24
## 193	193	Bakersfield, CA, United States	67.11
## 194	194	Ann Arbor, MI, United States	67.06
## 195	195	Nottingham, United Kingdom	67.05
## 196	196	Edmonton, Canada	67.03
## 197	197	Las Vegas, NV, United States	66.98
## 198	198	Columbus, OH, United States	66.90
## 199	199	Turin, Italy	66.68
## 200	200	Spokane, WA, United States	66.60
## 201	201	Kelowna, Canada	66.60

## 201	201	Kelowna, Canada	66.00
## 202	202	Exeter, United Kingdom	66.56
## 203	203	Glasgow, United Kingdom	66.50
## 204	204	Memphis, TN, United States	66.49
## 205	205	Kingston, Canada	66.45
## 206	206	Nuremberg, Germany	66.44
## 207	207	Coventry, United Kingdom	66.31
## 208	208	Columbia, SC, United States	66.23
## 209	209	Victoria, Canada	66.17
## 210	210	Malmo, Sweden	66.14
## 211	211	Salem, OR, United States	66.04
## 212	212	Leipzig, Germany	66.04
## 213	213	Dresden, Germany	65.92
## 214	214	Fort Wayne, IN, United States	65.88
## 215	215	Dayton, OH, United States	65.84
## 216	216	San Juan, Puerto Rico	65.79
## 217	217	Taipei, Taiwan	65.75
## 218	218	Kansas City, MO, United States	65.74
## 219	219	Leicester, United Kingdom	65.59
## 220	220	Oshawa, Canada	65.44
## 221	221	Nanaimo, BC, Canada	65.28
## 222	222	Fort Worth, TX, United States	65.19
## 223	223	Palma de Mallorca, Spain	65.17
## 224	224	Mississauga, Canada	65.08
## 225	225	Quebec City, Canada	65.07
## 226	226	Norwich, United Kingdom	64.95
## 227	227	Burnaby, Canada	64.94
## 228	228	Fayetteville, AR, United States	64.84
## 229	229	Naples, Italy	64.82
## 230	230	Derby, United Kingdom	64.70
## 231	231	Marseille, France	64.64
## 232	232	Kingston, Jamaica	64.59
## 233	233	Hanover, Germany	64.57
## 234	234	Richmond, VA, United States	64.56
## 235	235	Gold Coast, Australia	64.53
## 236	236	Greensboro, NC, United States	64.46
## 237	237	Birmingham, United Kingdom	64.46
## 238	238	Windsor, Canada	64.42
## 239	239	Dallas, TX, United States	64.32
## 240	240	Albuquerque, NM, United States	64.32
## 241	241	Phoenix, AZ, United States	64.31
## 242	242	Southampton, United Kingdom	63.73
## 243	243	Gainesville, FL, United States	63.62
## 244	244	Montreal, Canada	63.52
## 245	245	Grand Rapids, MI, United States	63.47
## 246	246	Tucson, AZ, United States	63.35
## 247	247	Madison, WI, United States	63.30
## 248	248	Chattanooga, TN, United States	63.28
## 249	249	Fresno, CA, United States	63.25
## 250	250	Wichita, KS, United States	63.18
## 251	251	Winnipeg, Canada	63.15
## 252	252	Cagliari, Italy	63.15
## 253	253	Salt Lake City, UT, United States	62.94
## 254	254	Ottawa, Canada	62.88
## 255	255	Doha, Qatar	62.81
## 256	256	Detroit, MI, United States	62.77
## 257	257	Newcastle upon Tyne, United Kingdom	62.76
## 258	258	Tulsa, OK, United States	62.67
## 259	259	Cincinnati, OH, United States	62.65
## 260	260	Sheffield, United Kingdom	62.64
## 261	261	Belfast, United Kingdom	62.42
## 262	262	Lubbock, TX, United States	62.40
## 263	263	Taichung, Taiwan	62.23
## 264	264	Des Moines, IA, United States	62.21
## 265	265	Houston, TX, United States	62.16
## 266	266	Barcelona, Spain	62.15
## 267	267	Cardiff, United Kingdom	62.12
## 268	268	Liverpool, United Kingdom	62.00
## 269	269	Abu Dhabi, United Arab Emirates	61.94
## 270	270	Oklahoma City, OK, United States	61.72
## 271	271	Palermo, Italy	61.16
## 272	272	Moncton, Canada	61.15
## 273	273	Nicosia, Cyprus	60.97
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##	274	274	Knoxville, TN, United States	60.97
##	275	275	Beirut, Lebanon	60.79
##	276	276	Hamilton, Canada	60.75
##	277	277	Springfield, MO, United States	60.56
##	278	278	Vancouver, WA, United States	60.46
##	279	279	Athens, Greece	60.44
##	280	280	Toledo, OH, United States	60.35
##	281	281	Little Rock, AR, United States	60.31
##	282	282	Louisville, KY, United States	60.24
##	283	283	Madrid, Spain	60.12
##	284	284	Reno, NV, United States	59.84
##	285	285	Huntsville, AL, United States	59.80
##	286	286	Lexington, KY, United States	59.64
##	287	287	Port of Spain, Trinidad And Tobago	59.60
##	288	288	Boise, ID, United States	59.43
##	289	289	El Paso, TX, United States	59.37
##	290	290	Surrey, Canada	59.18
##	291	291	London, Canada	59.15
##	292	292	Abbotsford, Canada	58.95
##	293	293	Kitchener, Canada	58.93
##	294	294	San Antonio, TX, United States	58.12
##	295	295	Montevideo, Uruguay	58.05
##	296	296	Zaragoza (Saragossa), Spain	58.00
##	297	297	Thessaloniki, Greece	57.97
##	298	298	San Jose, Costa Rica	57.84
##	299	299	Limassol, Cyprus	57.71
##	300	300	Accra, Ghana	57.23
##	301	301	Kaohsiung, Taiwan	56.44
##	302	302	Ljubljana, Slovenia	56.34
##	303	303	Valencia, Spain	55.27
##	304	304	Manama, Bahrain	55.23
##	305	305	Tallinn, Estonia	55.23
##	306	306	Panama City, Panama	54.91
##	307	307	Amman, Jordan	54.72
##	308	308	Seville (Sevilla), Spain	54.70
##	309	309	Larnaca, Cyprus	54.31
##	310	310	Lisbon, Portugal	54.16
##	311	311	Alicante, Spain	53.90
##	312	312	Split, Croatia	53.62
##	313	313	Bangkok, Thailand	53.61
##	314	314	Sharjah, United Arab Emirates	53.45
##	315	315	Dubai, United Arab Emirates	53.32
##	316	316	Rijeka, Croatia	52.96
##	317	317	Zagreb, Croatia	52.20
##	318	318	Makati, Philippines	51.07
##	319	319	Coimbra, Portugal	51.07
##	320	320	Muscat, Oman	51.04
##	321	321	Al Khobar, Saudi Arabia	51.03
##	322	322	Funchal, Portugal	50.90
##	323	323	Riga, Latvia	50.82
##	324	324	Porto, Portugal	50.43
##	325	325	Shanghai, China	50.41
##	326	326	Granada, Spain	50.41
##	327	327	Malaga, Spain	50.38
##	328	328	Santiago, Chile	50.37
##	329	329	Jeddah (Jiddah), Saudi Arabia	49.99
##	330	330	Addis Ababa, Ethiopia	49.96
##	331	331	Tartu, Estonia	49.65
##	332	332	Havana, Cuba	49.52
##	333	333	Quito, Ecuador	49.42
##	334	334	Maribor, Slovenia	49.30
##	335	335	Santa Cruz de Tenerife, Spain	48.69
##	336	336	Riyadh, Saudi Arabia	48.68
##	337	337	Bratislava, Slovakia	48.64
##	338	338	Braga, Portugal	48.55
##	339	339	Ad Dammam, Saudi Arabia	48.43
##	340	340	Vilnius, Lithuania	48.31
##	341	341	Prague, Czech Republic	48.02
##	342	342	Bandar Seri Begawan, Brunei	48.01
##	343	343	Harare, Zimbabwe	47.78
##	344	344	Las Palmas de Gran Canaria, Spain	47.39
##	345	345	San Salvador, El Salvador	47.22
##	346	346	Guayaquil, Ecuador	47.21

## 347	347	Baghdad, Iraq	47.17
## 348	348	Phuket, Thailand	46.98
## 349	349	Klaipeda, Lithuania	46.98
## 350	350	Kosice, Slovakia	46.27
## 351	351	Pretoria, South Africa	45.89
## 352	352	Santo Domingo, Dominican Republic	45.88
## 353	353	Kaunas, Lithuania	45.88
## 354	354	Windhoek, Namibia	45.84
## 355	355	Phnom Penh, Cambodia	45.67
## 356	356	Johannesburg, South Africa	45.51
## 357	357	Osijek, Croatia	44.95
## 358	358	Brno, Czech Republic	44.59
## 359	359	Moscow, Russia	44.54
## 360	360	Selangor, Malaysia	44.53
## 361	361	Campinas, Brazil	44.45
## 362	362	Guatemala City, Guatemala	44.39
## 363	363	Dar es Salaam, Tanzania	44.33
## 364	364	Petaling Jaya, Malaysia	44.31
## 365	365	Sao Paulo, Brazil	44.16
## 366	366	Rio de Janeiro, Brazil	44.12
## 367	367	Brasilia, Brazil	44.02
## 368	368	Penang, Malaysia	43.98
## 369	369	Beijing, China	43.88
## 370	370	Budapest, Hungary	43.74
## 371	371	Gdansk, Poland	42.82
## 372	372	Johor Bahru, Malaysia	42.59
## 373	373	Pattaya, Thailand	42.53
## 374	374	Irbil, Iraq	42.51
## 375	375	Kuala Lumpur, Malaysia	42.44
## 376	376	Warsaw, Poland	42.32
## 377	377	Shenzhen, China	42.21
## 378	378	Kuching, Malaysia	42.15
## 379	379	Kota Kinabalu, Malaysia	42.15
## 380	380	Peterborough, United Kingdom	41.93
## 381	381	Nairobi, Kenya	41.76
## 382	382	Jakarta, Indonesia	41.60
## 383	383	Cape Town, South Africa	41.58
## 384	384	Bali, Indonesia	41.48
## 385	385	Lima, Peru	41.47
## 386	386	Olomouc, Czech Republic	41.27
## 387	387	Gdynia, Poland	41.22
## 388	388	Recife, Brazil	40.67
## 389	389	Porto Alegre, Brazil	40.56
## 390	390	Ostrava, Czech Republic	40.55
## 391	391	Chiang Mai, Thailand	40.53
## 392	392	Belo Horizonte, Brazil	40.48
## 393	393	Durban, South Africa	40.48
## 394	394	Bucharest, Romania	40.39
## 395	395	Sofia, Bulgaria	40.36
## 396	396	Guangzhou, China	40.29
## 397	397	Florianopolis, Brazil	40.26
## 398	398	Belgrade, Serbia	40.10
## 399	399	Wroclaw, Poland	40.00
## 400	400	Podgorica, Montenegro	39.83
## 401	401	Krakow (Cracow), Poland	39.53
## 402	402	Port Elizabeth, South Africa	39.41
## 403	403	Saint Petersburg, Russia	39.25
## 404	404	Sarajevo, Bosnia And Herzegovina	39.25
## 405	405	Varna, Bulgaria	39.13
## 406	406	Poznan, Poland	38.99
## 407	407	Constanta, Romania	38.89
## 408	408	Rabat, Morocco	38.59
## 409	409	Buenos Aires, Argentina	38.57
## 410	410	Bydgoszcz, Poland	38.54
## 411	411	Szeged, Hungary	38.41
## 412	412	Hanoi, Vietnam	38.34
## 413	413	Curitiba, Brazil	38.34
## 414	414	Timisoara, Romania	38.19
## 415	415	Cluj-Napoca, Romania	38.13
## 416	416	Debrecen, Hungary	38.05
## 417	417	Suzhou, China	37.95
## 418	418	Manila, Philippines	37.95
## 419	419	Istanbul, Turkey	37.85

##	420	420	Tourism, Turkey	37.00
##	421	421	Ho Chi Minh City, Vietnam	37.82
##	422	422	Katowice, Poland	37.48
##	423	423	Szczecin, Poland	37.35
##	424	424	Chelyabinsk, Russia	37.29
##	425	425	Tirana, Albania	37.25
##	426	426	Lodz, Poland	37.13
##	427	427	Brasov, Romania	37.13
##	428	428	Banja Luka, Bosnia And Herzegovina	36.54
##	429	429	Iasi, Romania	36.54
##	430	430	Plovdiv, Bulgaria	36.45
##	431	431	Cebu, Philippines	36.41
##	432	432	Yekaterinburg, Russia	36.41
##	433	433	Burgas, Bulgaria	36.26
##	434	434	Chengdu, China	36.16
##	435	435	Cuenca, Ecuador	36.13
##	436	436	Lublin, Poland	36.12
##	437	437	Colombo, Sri Lanka	36.00
##	438	438	Samara, Russia	35.96
##	439	439	Arad, Romania	35.84
##	440	440	Surabaya, Indonesia	35.72
##	441	441	Casablanca, Morocco	35.68
##	442	442	Sibiu, Romania	35.63
##	443	443	Bandung, Indonesia	35.58
##	444	444	Paramaribo, Suriname	35.45
##	445	445	Kaliningrad, Russia	35.40
##	446	446	Novi Sad, Serbia	35.36
##	447	447	Bogota, Colombia	35.05
##	448	448	Yogyakarta, Indonesia	34.91
##	449	449	Astana, Kazakhstan	34.90
##	450	450	Ankara, Turkey	34.77
##	451	451	Skopje, Macedonia	34.68
##	452	452	Oradea, Romania	34.35
##	453	453	Nis, Serbia	34.20
##	454	454	Tehran, Iran	34.19
##	455	455	Mexico City, Mexico	34.18
##	456	456	Ulaanbaatar, Mongolia	34.16
##	457	457	Monterrey, Mexico	34.12
##	458	458	Minsk, Belarus	34.07
##	459	459	Nizhny Novgorod, Russia	34.04
##	460	460	Barranquilla, Colombia	34.04
##	461	461	Izmir, Turkey	34.03
##	462	462	Medellin, Colombia	33.82
##	463	463	Antalya, Turkey	33.78
##	464	464	Chisinau, Moldova	33.75
##	465	465	Bursa, Turkey	33.72
##	466	466	Kazan, Russia	33.67
##	467	467	Novosibirsk, Russia	33.65
##	468	468	Davao, Philippines	33.57
##	469	469	Asuncion, Paraguay	33.49
##	470	470	Algiers, Algeria	33.44
##	471	471	Lagos, Nigeria	33.33
##	472	472	Dumaguete, Philippines	33.21
##	473	473	Yerevan, Armenia	33.16
##	474	474	Tijuana, Mexico	32.70
##	475	475	Almaty, Kazakhstan	32.51
##	476	476	Rostov-na-donu, Russia	32.40
##	477	477	Krasnodar, Russia	32.37
##	478	478	Kathmandu, Nepal	31.89
##	479	479	Craiova, Romania	31.78
##	480	480	Voronezh, Russia	31.74
##	481	481	Quezon City, Philippines	31.66
##	482	482	Dhaka, Bangladesh	31.57
##	483	483	Kampala, Uganda	31.51
##	484	484	Guadalajara, Mexico	31.46
##	485	485	Cancun, Mexico	31.35
##	486	486	Queretaro, Mexico	31.01
##	487	487	Gurgaon, India	30.71
##	488	488	Cali, Colombia	30.48
##	489	489	Tbilisi, Georgia	30.22
##	490	490	Odessa, Ukraine	30.13
##	491	491	Tashkent, Uzbekistan	29.94
##	492	492	Puerto Vallarta, Mexico	29.82

##	492	492	Kiev, Ukraine	29.42
##	493	493	Baku, Azerbaijan	29.41
##	494	494	Merida, Mexico	29.39
##	495	495	Mumbai, India	29.03
##	496	496	Puebla, Mexico	28.89
##	497	497	Delhi, India	28.67
##	498	498	Noida, India	28.55
##	499	499	Dnipro, Ukraine	27.96
##	500	500	Caracas, Venezuela	27.82
##	501	501	Pune, India	27.41
##	502	502	Lviv, Ukraine	27.24
##	503	503	Ludhiana, India	27.17
##	504	504	Bangalore, India	26.83
##	505	505	Kharkiv, Ukraine	26.71
##	506	506	Tunis, Tunisia	26.53
##	507	507	Pristina, Kosovo (Disputed Territory)	26.24
##	508	508	Chandigarh, India	26.00
##	509	509	Islamabad, Pakistan	25.86
##	510	510	Lahore, Pakistan	25.83
##	511	511	Cairo, Egypt	25.68
##	512	512	Jaipur, India	25.46
##	513	513	Indore, India	25.40
##	514	514	Thane, India	25.31
##	515	515	Chennai, India	25.20
##	516	516	Kolkata, India	24.80
##	517	517	Lucknow (Lakhnau), India	24.75
##	518	518	Goa, India	24.34
##	519	519	Ahmedabad, India	24.24
##	520	520	Alexandria, Egypt	23.92
##	521	521	Karachi, Pakistan	23.90
##	522	522	Sumy, Ukraine	23.84
##	523	523	Surat, India	23.77
##	524	524	Hyderabad, India	23.59
##	525	525	Nagpur, India	22.76
##	526	526	Guwahati, India	22.68
##	527	527	Mysore, India	22.41
##	528	528	Bhubaneswar, India	22.40
##	529	529	Mangalore, India	22.40
##	530	530	Coimbatore, India	22.38
##	531	531	Bhopal, India	22.37
##	532	532	Vadodara, India	22.28
##	533	533	Kochi, India	21.73
##	534	534	Visakhapatnam, India	21.52
##	535	535	Navi Mumbai, India	19.30
##	536	536	Thiruvananthapuram, India	19.26
##			Rent.Index Cost.of.Living.Plus.Rent.Index Groceries.Index	
##	1	103.03	121.21	126.56
##	2	62.62	97.39	127.35
##	3	46.14	88.66	120.44
##	4	50.35	86.83	116.35
##	5	39.22	80.93	114.54
##	6	69.16	95.06	112.08
##	7	57.40	86.45	98.53
##	8	49.58	82.39	104.85
##	9	38.85	76.85	95.97
##	10	48.58	79.42	93.81
##	11	39.38	72.82	87.02
##	12	100.00	100.00	100.00
##	13	39.87	71.39	82.31
##	14	106.49	101.43	101.93
##	15	63.96	79.63	96.32
##	16	39.45	67.75	96.74
##	17	81.02	85.91	83.16
##	18	70.28	79.87	86.63
##	19	56.69	73.32	84.35
##	20	47.84	68.94	64.59
##	21	46.12	67.58	90.86
##	22	61.31	74.76	70.75
##	23	61.20	74.24	78.24
##	24	64.70	75.66	83.72
##	25	36.41	61.89	81.72
##	26	47.60	67.13	73.77
##	27	23.31	55.32	65.29

## 28	76.39	80.45	81.99
## 29	61.58	73.43	86.08
## 30	24.92	55.09	62.32
## 31	54.65	69.13	62.35
## 32	33.01	58.79	93.57
## 33	31.71	58.16	61.47
## 34	70.30	76.10	57.74
## 35	77.14	79.27	77.54
## 36	35.69	59.34	61.31
## 37	76.09	78.39	75.71
## 38	60.38	70.92	66.82
## 39	60.12	70.73	60.82
## 40	62.58	71.72	68.63
## 41	41.58	61.73	83.41
## 42	31.01	56.48	77.50
## 43	49.35	65.10	74.58
## 44	26.21	54.03	68.46
## 45	34.45	57.65	71.63
## 46	23.34	52.35	73.56
## 47	65.75	72.40	73.87
## 48	27.34	54.02	69.55
## 49	55.18	67.17	74.93
## 50	26.66	53.59	67.39
## 51	70.45	74.25	71.59
## 52	40.57	59.96	62.34
## 53	29.08	54.51	73.87
## 54	55.53	67.01	70.69
## 55	40.18	59.69	64.74
## 56	29.07	54.42	63.10
## 57	53.54	65.98	76.79
## 58	35.79	57.36	58.82
## 59	39.11	58.92	63.73
## 60	42.90	60.67	66.39
## 61	34.34	56.60	60.65
## 62	26.10	52.54	67.34
## 63	37.46	57.92	58.34
## 64	23.03	51.09	66.45
## 65	76.61	76.43	71.10
## 66	41.81	59.87	73.17
## 67	38.23	58.15	71.89
## 68	29.77	54.03	69.04
## 69	57.81	67.30	67.27
## 70	32.03	55.02	63.45
## 71	23.23	50.82	71.92
## 72	68.66	72.29	67.52
## 73	44.29	60.75	69.09
## 74	23.02	50.64	65.79
## 75	20.01	49.17	63.25
## 76	25.78	51.85	57.88
## 77	33.44	55.38	65.24
## 78	25.38	51.45	61.20
## 79	42.40	59.47	72.45
## 80	42.16	59.34	70.55
## 81	78.33	76.44	74.88
## 82	30.67	53.84	61.87
## 83	28.04	52.55	59.51
## 84	33.80	55.26	56.34
## 85	22.37	49.84	68.32
## 86	42.73	59.48	67.10
## 87	34.60	55.60	61.79
## 88	43.44	59.72	72.61
## 89	26.16	51.49	72.37
## 90	38.62	57.36	71.42
## 91	50.67	63.05	69.19
## 92	33.42	54.83	53.99
## 93	24.82	50.76	62.71
## 94	21.80	49.32	70.28
## 95	39.56	57.63	59.19
## 96	32.10	54.10	59.93
## 97	42.89	59.20	68.71
## 98	45.18	60.25	56.28
## 99	31.47	53.75	58.58
## 100	41.21	58.27	67.00

##
# # 101	34.02	54.83	61.77
# # 102	37.58	56.51	57.77
# # 103	21.74	48.99	60.51
# # 104	19.47	47.88	55.23
# # 105	41.65	58.33	69.21
# # 106	32.42	53.86	64.86
# # 107	27.95	51.69	57.21
# # 108	32.84	53.99	53.33
# # 109	46.18	60.27	68.29
# # 110	31.99	53.54	67.23
# # 111	34.10	54.49	56.19
# # 112	43.84	58.99	54.62
# # 113	48.82	61.34	51.41
# # 114	35.59	55.01	64.71
# # 115	30.44	52.57	78.36
# # 116	21.78	48.42	62.75
# # 117	28.84	51.72	58.44
# # 118	61.06	66.97	64.11
# # 119	33.39	53.80	54.27
# # 120	35.25	54.68	54.35
# # 121	34.17	54.17	68.93
# # 122	46.89	60.14	66.94
# # 123	54.09	63.53	67.92
# # 124	45.24	59.30	70.22
# # 125	23.11	48.81	61.23
# # 126	34.03	53.96	69.40
# # 127	34.99	54.29	53.12
# # 128	39.68	56.45	63.85
# # 129	37.19	55.27	71.47
# # 130	19.64	46.96	64.67
# # 131	33.45	53.49	68.78
# # 132	37.63	55.43	63.56
# # 133	31.44	52.29	51.81
# # 134	28.05	50.60	72.43
# # 135	32.48	52.70	63.61
# # 136	33.51	53.16	53.85
# # 137	34.81	53.76	67.20
# # 138	33.44	53.08	58.75
# # 139	31.36	52.04	69.00
# # 140	29.30	51.04	62.31
# # 141	40.40	56.28	60.02
# # 142	40.59	56.33	66.03
# # 143	50.35	60.96	65.81
# # 144	39.13	55.63	60.45
# # 145	31.96	52.23	71.79
# # 146	35.72	53.94	55.05
# # 147	30.81	51.58	69.88
# # 148	26.28	49.42	61.00
# # 149	44.28	57.92	64.15
# # 150	38.43	55.15	68.50
# # 151	21.81	47.27	60.78
# # 152	22.11	47.40	53.18
# # 153	20.31	46.49	58.63
# # 154	29.46	50.77	49.50
# # 155	40.63	56.03	63.26
# # 156	30.37	51.17	52.69
# # 157	25.55	48.88	68.44
# # 158	29.33	50.62	60.31
# # 159	28.24	50.05	62.06
# # 160	49.26	59.98	66.65
# # 161	28.14	49.99	60.78
# # 162	36.53	53.93	52.44
# # 163	42.42	56.70	52.95
# # 164	24.03	47.98	54.96
# # 165	28.87	50.18	55.98
# # 166	21.71	46.75	52.43
# # 167	36.18	53.56	71.88
# # 168	27.28	49.32	52.20
# # 169	27.95	49.62	64.66
# # 170	30.98	51.04	64.58
# # 171	36.69	53.72	55.28
# # 172	29.42	50.28	65.14
.. ..	---	---	---

## 173	21.86	46.65	53.13
## 174	29.85	50.43	60.75
## 175	35.57	53.07	63.74
## 176	28.91	49.91	68.60
## 177	49.17	59.50	64.10
## 178	25.43	48.24	58.12
## 179	39.54	54.85	65.38
## 180	28.00	49.31	66.75
## 181	22.17	46.49	52.00
## 182	28.05	49.23	53.36
## 183	35.84	52.70	62.06
## 184	31.64	50.65	52.31
## 185	22.98	46.55	52.70
## 186	33.60	51.48	63.81
## 187	33.30	51.29	49.06
## 188	35.02	52.09	66.05
## 189	23.58	46.66	55.68
## 190	29.64	49.51	51.53
## 191	22.76	46.23	52.03
## 192	26.47	47.94	71.30
## 193	28.95	49.05	63.16
## 194	47.59	57.84	60.70
## 195	23.63	46.50	54.03
## 196	29.22	49.13	60.51
## 197	29.55	49.27	59.56
## 198	36.92	52.71	58.94
## 199	20.97	45.04	52.98
## 200	28.33	48.49	59.19
## 201	33.08	50.73	62.58
## 202	29.55	49.04	48.27
## 203	27.49	48.04	51.88
## 204	26.58	47.60	59.36
## 205	26.88	47.72	64.50
## 206	24.08	46.39	50.10
## 207	26.92	47.66	52.61
## 208	27.73	48.01	65.60
## 209	38.10	52.88	65.05
## 210	26.09	47.18	56.60
## 211	28.93	48.48	61.63
## 212	19.98	44.24	50.44
## 213	21.68	44.98	50.52
## 214	21.74	44.98	70.07
## 215	21.97	45.07	62.60
## 216	24.43	46.21	59.19
## 217	22.74	45.39	73.78
## 218	30.53	49.07	58.43
## 219	22.41	45.15	51.01
## 220	27.37	47.42	55.97
## 221	24.29	45.88	68.45
## 222	35.53	51.15	56.86
## 223	27.12	47.16	50.72
## 224	35.79	51.22	58.39
## 225	16.10	41.89	62.78
## 226	23.69	45.42	48.98
## 227	40.95	53.59	58.52
## 228	25.90	46.41	61.15
## 229	18.34	42.82	56.22
## 230	19.76	43.43	51.11
## 231	23.63	45.23	54.31
## 232	15.89	41.54	64.91
## 233	22.82	44.80	53.06
## 234	35.24	50.68	63.54
## 235	37.37	51.68	59.94
## 236	27.34	46.89	63.03
## 237	30.50	48.38	48.03
## 238	21.98	44.33	51.65
## 239	43.15	54.30	58.50
## 240	27.29	46.79	64.42
## 241	33.65	49.79	56.58
## 242	31.44	48.45	48.32
## 243	29.02	47.24	60.52
## 244	25.25	45.40	60.69
## 245	31.04	48.12	55.26

## 246	23.63	44.55	52.48
## 247	37.52	51.09	56.66
## 248	29.58	47.33	57.19
## 249	30.12	47.57	54.68
## 250	23.45	44.38	57.30
## 251	23.70	44.48	57.33
## 252	19.23	42.36	55.09
## 253	35.80	50.10	55.93
## 254	30.26	47.44	54.70
## 255	56.39	59.77	51.33
## 256	34.22	49.25	56.21
## 257	22.89	43.89	45.04
## 258	26.87	45.72	59.49
## 259	31.03	47.68	52.40
## 260	23.00	43.88	49.09
## 261	22.62	43.58	50.78
## 262	24.28	44.35	56.80
## 263	13.02	38.94	72.88
## 264	33.57	48.66	57.09
## 265	43.11	53.14	54.36
## 266	32.44	48.09	48.06
## 267	28.79	46.34	52.30
## 268	24.72	44.35	44.70
## 269	58.43	60.28	50.11
## 270	25.72	44.68	60.18
## 271	16.75	40.14	50.93
## 272	17.69	40.58	54.08
## 273	17.72	40.50	46.70
## 274	28.75	45.72	59.45
## 275	32.31	47.31	42.01
## 276	26.34	44.46	53.08
## 277	18.66	40.73	60.68
## 278	35.97	48.87	50.54
## 279	12.73	37.85	44.92
## 280	21.26	41.84	50.89
## 281	26.40	44.26	55.44
## 282	26.86	44.44	53.87
## 283	31.59	46.62	45.69
## 284	38.03	49.51	51.96
## 285	28.65	45.06	58.83
## 286	24.86	43.17	54.50
## 287	19.73	40.73	55.83
## 288	30.85	45.90	50.93
## 289	22.16	41.76	54.07
## 290	30.36	45.54	51.61
## 291	23.08	42.08	47.61
## 292	25.01	42.89	54.08
## 293	25.38	43.05	51.13
## 294	31.26	45.41	55.20
## 295	17.98	39.09	44.97
## 296	18.18	39.15	45.42
## 297	11.28	35.86	43.49
## 298	18.15	39.05	54.00
## 299	25.14	42.29	44.64
## 300	36.27	47.31	50.61
## 301	9.66	34.30	63.90
## 302	19.10	38.71	44.61
## 303	19.30	38.24	43.85
## 304	28.59	42.62	47.89
## 305	17.81	37.51	37.57
## 306	30.02	43.13	48.72
## 307	12.29	34.63	43.18
## 308	20.25	38.39	43.86
## 309	11.52	34.06	41.24
## 310	29.92	42.69	42.20
## 311	15.68	35.81	42.74
## 312	13.41	34.59	42.31
## 313	25.72	40.41	52.65
## 314	27.86	41.34	42.29
## 315	49.32	51.42	37.47
## 316	11.34	33.26	41.96
## 317	14.69	34.44	41.94
## 318	23.04	37.80	53.50

" "	"--"	"--"	"--"
## 319	13.59	33.33	40.31
## 320	24.72	38.58	41.46
## 321	14.18	33.58	43.30
## 322	17.76	35.21	38.92
## 323	13.56	33.18	36.36
## 324	21.87	36.91	39.50
## 325	34.08	42.68	51.66
## 326	14.72	33.52	37.44
## 327	20.51	36.24	40.51
## 328	17.21	34.68	40.37
## 329	12.25	32.12	37.48
## 330	28.77	39.93	39.26
## 331	13.67	32.62	37.77
## 332	9.56	30.60	35.26
## 333	14.79	33.03	45.13
## 334	10.80	31.08	38.45
## 335	17.39	33.87	37.32
## 336	14.06	32.30	38.42
## 337	22.28	36.16	39.84
## 338	12.92	31.69	38.22
## 339	12.46	31.40	40.41
## 340	17.05	33.51	35.05
## 341	23.87	36.59	39.22
## 342	24.00	36.64	46.01
## 343	13.31	31.46	40.14
## 344	19.71	34.29	39.00
## 345	15.92	32.40	45.60
## 346	14.87	31.90	39.27
## 347	14.09	31.51	37.22
## 348	15.25	31.96	47.75
## 349	10.79	29.85	36.30
## 350	15.30	31.61	36.56
## 351	13.92	30.75	34.99
## 352	11.73	29.72	35.34
## 353	11.73	29.71	34.52
## 354	20.34	33.77	40.21
## 355	17.63	32.40	45.08
## 356	17.34	32.18	35.68
## 357	7.51	27.23	35.73
## 358	18.20	32.10	36.98
## 359	29.31	37.33	33.29
## 360	8.87	27.65	40.31
## 361	12.25	29.21	30.99
## 362	14.77	30.37	39.08
## 363	22.22	33.87	30.77
## 364	12.11	29.07	48.95
## 365	16.59	31.11	32.25
## 366	16.19	30.89	29.67
## 367	13.90	29.76	34.36
## 368	10.13	27.96	45.30
## 369	31.50	38.02	37.61
## 370	16.04	30.63	33.14
## 371	16.42	30.32	30.83
## 372	9.83	27.09	50.21
## 373	19.18	31.48	43.07
## 374	11.69	27.92	36.73
## 375	16.70	30.25	41.63
## 376	20.60	32.04	31.63
## 377	25.64	34.37	39.71
## 378	5.74	24.92	42.98
## 379	12.08	27.92	42.93
## 380	19.52	31.32	22.53
## 381	13.17	28.23	36.97
## 382	15.80	29.39	41.08
## 383	27.38	34.86	32.79
## 384	8.45	25.84	44.51
## 385	15.51	29.18	36.03
## 386	12.42	27.61	36.53
## 387	13.91	28.29	30.93
## 388	8.17	25.29	30.60
## 389	10.49	26.32	28.08
## 390	9.60	25.90	33.62
-- --	-- --	-- --	-- --

## 391	11.04	26.57	46.11
## 392	9.86	25.99	26.77
## 393	13.43	27.67	31.46
## 394	12.86	27.36	30.96
## 395	12.36	27.10	33.08
## 396	18.96	30.19	37.63
## 397	12.08	26.92	28.90
## 398	11.54	26.58	28.17
## 399	17.35	29.27	31.51
## 400	9.68	25.56	29.54
## 401	17.33	29.02	29.92
## 402	11.43	26.17	31.14
## 403	17.55	28.98	30.71
## 404	9.22	25.03	29.94
## 405	8.49	24.63	32.69
## 406	13.25	26.81	30.18
## 407	8.44	24.48	27.69
## 408	13.42	26.67	32.89
## 409	11.75	25.87	29.66
## 410	14.65	27.23	29.79
## 411	9.60	24.77	30.26
## 412	13.06	26.37	35.91
## 413	9.68	24.77	25.26
## 414	10.74	25.20	30.87
## 415	13.27	26.36	31.34
## 416	9.29	24.44	29.62
## 417	15.78	27.45	36.03
## 418	15.80	27.46	31.73
## 419	11.20	25.24	31.34
## 420	16.41	27.69	36.25
## 421	11.36	25.11	27.90
## 422	12.27	25.48	26.88
## 423	7.64	23.25	32.57
## 424	10.18	24.43	28.33
## 425	11.67	25.08	27.34
## 426	10.76	24.65	28.62
## 427	7.47	22.78	28.38
## 428	9.89	23.92	29.24
## 429	7.86	22.92	29.56
## 430	10.52	24.16	34.29
## 431	11.45	24.60	29.43
## 432	7.32	22.56	29.78
## 433	11.63	24.55	33.43
## 434	10.63	24.06	31.13
## 435	17.45	27.28	27.87
## 436	10.87	24.11	37.80
## 437	11.23	24.26	28.06
## 438	8.62	22.96	28.54
## 439	7.03	22.14	38.13
## 440	15.30	26.03	28.81
## 441	8.99	23.02	28.98
## 442	7.38	22.23	37.78
## 443	6.88	21.93	37.34
## 444	7.58	22.23	28.28
## 445	7.06	21.97	26.62
## 446	12.63	24.44	26.09
## 447	7.32	21.85	38.34
## 448	12.00	24.06	27.81
## 449	6.56	21.42	29.59
## 450	9.00	22.52	26.04
## 451	7.01	21.41	27.89
## 452	5.61	20.66	25.56
## 453	18.48	26.75	28.27
## 454	17.94	26.49	29.88
## 455	9.46	22.47	31.33
## 456	11.28	23.31	29.17
## 457	10.95	23.13	26.58
## 458	10.46	22.88	27.39
## 459	9.54	22.44	25.05
## 460	7.94	21.68	28.41
## 461	11.16	23.09	27.87
## 462	6.01	20.64	31.25
## 463	8.66	21.87	25.05

## 464	5.74	20.48	26.98
## 465	11.02	22.95	26.46
## 466	10.85	22.86	28.36
## 467	7.28	21.13	30.27
## 468	10.53	22.62	26.16
## 469	8.93	21.84	33.22
## 470	30.24	31.86	27.68
## 471	7.35	20.97	35.44
## 472	9.67	22.04	25.40
## 473	10.75	22.31	27.50
## 474	11.68	22.65	24.50
## 475	10.43	22.00	24.78
## 476	10.48	22.01	25.66
## 477	5.15	19.23	27.07
## 478	7.23	20.16	25.59
## 479	7.40	20.22	26.77
## 480	8.34	20.62	26.12
## 481	6.03	19.48	28.10
## 482	9.36	21.02	25.60
## 483	9.49	21.06	28.92
## 484	10.30	21.39	26.75
## 485	9.26	20.72	28.38
## 486	9.96	20.89	26.63
## 487	7.55	19.62	24.69
## 488	10.46	20.87	23.36
## 489	10.22	20.70	21.03
## 490	9.43	20.23	24.99
## 491	14.71	22.67	26.85
## 492	14.53	22.37	23.17
## 493	9.30	19.89	24.32
## 494	5.72	18.19	26.53
## 495	20.31	24.90	26.63
## 496	6.88	18.47	24.07
## 497	8.73	19.23	25.80
## 498	6.18	17.96	25.14
## 499	7.41	18.23	20.28
## 500	8.43	18.64	28.40
## 501	7.38	17.93	26.76
## 502	9.92	19.04	21.17
## 503	4.40	16.39	25.51
## 504	8.60	18.20	26.53
## 505	8.80	18.23	19.40
## 506	6.83	17.21	24.26
## 507	8.36	17.78	22.23
## 508	5.70	16.39	25.46
## 509	7.48	17.16	23.37
## 510	5.27	16.10	22.76
## 511	5.24	16.01	21.31
## 512	4.98	15.76	23.87
## 513	4.40	15.46	25.73
## 514	9.89	18.01	24.18
## 515	6.90	16.53	25.91
## 516	6.00	15.90	23.35
## 517	4.44	15.14	23.21
## 518	6.21	15.76	24.63
## 519	5.19	15.22	24.89
## 520	3.67	14.33	21.09
## 521	6.15	15.50	20.89
## 522	3.75	14.33	18.01
## 523	3.78	14.31	23.78
## 524	5.99	15.26	23.02
## 525	4.50	14.12	21.62
## 526	4.04	13.85	22.91
## 527	4.32	13.85	23.87
## 528	4.40	13.88	23.66
## 529	5.05	14.19	22.21
## 530	5.21	14.25	22.45
## 531	3.43	13.41	20.13
## 532	3.78	13.52	22.26
## 533	5.45	14.02	21.93
## 534	4.26	13.35	21.09
## 535	4.70	12.39	19.21
## 536	4.69	12.36	18.14

	Restaurant.Price.Index	Local.Purchasing.Power.Index
## 1	151.77	114.19
## 2	127.14	142.39
## 3	129.10	141.48
## 4	122.83	132.58
## 5	114.86	115.48
## 6	119.78	133.47
## 7	127.87	94.21
## 8	120.62	131.26
## 9	134.55	112.62
## 10	114.42	104.30
## 11	116.35	108.19
## 12	100.00	100.00
## 13	120.45	113.08
## 14	94.58	125.95
## 15	86.72	113.58
## 16	78.76	138.38
## 17	95.27	87.05
## 18	86.23	131.53
## 19	82.55	116.47
## 20	113.18	114.05
## 21	73.48	106.06
## 22	99.49	120.25
## 23	82.29	186.00
## 24	80.27	140.00
## 25	54.41	113.09
## 26	88.11	95.38
## 27	112.90	114.26
## 28	87.60	119.03
## 29	81.44	120.46
## 30	97.34	113.36
## 31	87.71	98.88
## 32	50.34	102.63
## 33	95.15	116.80
## 34	91.85	100.22
## 35	78.55	137.74
## 36	94.99	108.83
## 37	83.08	124.57
## 38	59.40	99.15
## 39	87.98	89.32
## 40	69.34	128.25
## 41	72.82	84.71
## 42	77.64	108.77
## 43	74.75	109.34
## 44	79.47	114.89
## 45	78.53	93.47
## 46	72.47	108.39
## 47	73.72	135.16
## 48	72.77	96.07
## 49	77.97	128.82
## 50	80.73	99.34
## 51	81.71	114.51
## 52	85.86	93.67
## 53	83.57	99.44
## 54	78.52	133.70
## 55	85.51	115.83
## 56	88.19	70.47
## 57	68.35	112.76
## 58	84.91	102.30
## 59	84.93	125.69
## 60	65.02	103.52
## 61	85.41	85.39
## 62	77.60	83.45
## 63	88.94	103.12
## 64	74.72	105.57
## 65	83.14	170.91
## 66	78.69	76.97
## 67	66.74	114.28
## 68	84.70	112.81
## 69	81.89	89.99
## 70	87.07	100.24
## 71	60.92	100.33

## 72	91.99	124.41
## 73	77.91	145.88
## 74	75.80	100.44
## 75	77.18	77.62
## 76	88.45	94.77
## 77	79.28	139.93
## 78	86.36	97.30
## 79	85.71	122.77
## 80	82.50	119.13
## 81	54.05	76.49
## 82	71.50	95.54
## 83	80.36	96.92
## 84	84.44	93.41
## 85	46.37	102.10
## 86	70.76	131.85
## 87	81.23	125.99
## 88	73.78	119.38
## 89	65.25	103.89
## 90	71.47	130.05
## 91	71.60	126.03
## 92	81.15	111.02
## 93	70.81	94.37
## 94	81.11	96.78
## 95	84.57	74.87
## 96	72.83	104.75
## 97	77.01	127.77
## 98	80.50	114.57
## 99	90.89	121.22
## 100	86.02	106.74
## 101	75.27	94.56
## 102	74.67	109.85
## 103	72.30	80.96
## 104	86.23	100.60
## 105	76.67	142.25
## 106	72.71	119.67
## 107	90.52	128.24
## 108	67.20	115.58
## 109	75.64	133.75
## 110	68.26	127.17
## 111	83.88	121.84
## 112	86.14	106.28
## 113	77.46	87.88
## 114	78.11	122.21
## 115	67.68	99.50
## 116	71.65	104.62
## 117	81.94	96.13
## 118	79.21	144.91
## 119	79.83	112.68
## 120	70.09	113.28
## 121	71.96	114.33
## 122	73.06	150.38
## 123	76.90	130.34
## 124	74.59	111.58
## 125	71.79	114.79
## 126	69.34	107.87
## 127	74.50	132.91
## 128	64.54	116.39
## 129	70.69	104.81
## 130	71.20	91.24
## 131	77.88	104.54
## 132	79.19	142.12
## 133	87.08	107.73
## 134	61.05	99.86
## 135	67.94	104.56
## 136	66.51	135.30
## 137	71.87	109.93
## 138	80.86	110.16
## 139	67.63	132.56
## 140	72.75	111.16
## 141	78.68	135.82
## 142	72.96	127.77
## 143	78.34	151.25
## 144	69.33	134.54

## 145	39.36	28.32
## 146	82.28	70.43
## 147	71.98	91.12
## 148	70.54	111.52
## 149	67.53	99.45
## 150	69.67	130.10
## 151	64.07	112.89
## 152	81.05	126.99
## 153	71.32	111.90
## 154	81.79	128.46
## 155	70.06	153.77
## 156	80.84	107.70
## 157	63.92	118.14
## 158	75.49	122.33
## 159	69.68	105.12
## 160	67.35	94.65
## 161	67.61	98.85
## 162	87.30	117.20
## 163	78.93	87.36
## 164	78.34	85.60
## 165	78.14	113.55
## 166	74.86	161.95
## 167	66.40	155.96
## 168	67.80	112.56
## 169	76.92	124.03
## 170	62.75	141.64
## 171	78.14	72.99
## 172	71.31	149.05
## 173	67.53	126.88
## 174	71.93	138.51
## 175	71.41	107.87
## 176	58.42	99.86
## 177	76.79	136.29
## 178	76.33	122.17
## 179	72.99	140.97
## 180	59.29	112.05
## 181	66.93	141.04
## 182	80.41	119.62
## 183	71.73	161.28
## 184	58.53	112.36
## 185	66.87	97.87
## 186	68.60	94.96
## 187	64.14	130.11
## 188	58.84	124.45
## 189	65.18	140.16
## 190	66.42	133.27
## 191	59.44	134.85
## 192	59.97	128.82
## 193	70.58	151.58
## 194	58.50	128.99
## 195	66.60	106.22
## 196	69.57	129.45
## 197	72.20	144.40
## 198	66.04	128.77
## 199	72.24	86.70
## 200	68.65	124.45
## 201	61.82	108.98
## 202	78.62	87.24
## 203	75.35	121.47
## 204	70.42	125.07
## 205	60.41	113.98
## 206	66.17	120.91
## 207	68.35	138.99
## 208	67.08	124.84
## 209	59.95	106.89
## 210	72.21	107.14
## 211	63.28	125.24
## 212	57.36	90.74
## 213	56.77	131.77
## 214	63.82	124.37
## 215	64.97	91.21
## 216	56.46	110.36
## 217	32.95	95.59

## 218	68.12	138.60
## 219	71.76	107.34
## 220	68.51	119.92
## 221	58.51	100.45
## 222	70.27	140.43
## 223	66.04	78.81
## 224	60.01	112.72
## 225	60.07	140.18
## 226	76.45	92.06
## 227	59.61	151.02
## 228	67.22	109.58
## 229	59.15	68.80
## 230	67.14	146.98
## 231	63.64	92.65
## 232	41.79	29.03
## 233	60.00	152.96
## 234	62.47	132.62
## 235	64.12	129.83
## 236	61.80	133.53
## 237	80.25	106.94
## 238	68.38	109.87
## 239	68.02	153.42
## 240	63.21	128.27
## 241	72.47	146.15
## 242	70.79	139.02
## 243	58.47	106.34
## 244	61.07	117.12
## 245	71.44	129.66
## 246	63.98	122.68
## 247	65.73	144.61
## 248	60.41	124.02
## 249	76.08	120.12
## 250	64.33	135.99
## 251	58.50	115.79
## 252	64.01	88.55
## 253	66.10	150.76
## 254	62.10	144.70
## 255	61.18	139.76
## 256	51.65	97.41
## 257	70.56	133.83
## 258	62.36	129.54
## 259	63.41	137.31
## 260	71.97	119.46
## 261	77.19	100.69
## 262	64.34	135.19
## 263	28.17	65.41
## 264	63.36	128.68
## 265	72.49	155.88
## 266	60.42	80.46
## 267	67.16	116.48
## 268	67.48	121.31
## 269	63.20	116.42
## 270	56.84	136.21
## 271	59.39	80.13
## 272	60.71	112.73
## 273	70.81	74.05
## 274	59.43	116.61
## 275	64.39	54.43
## 276	62.20	127.16
## 277	61.21	102.88
## 278	61.81	153.07
## 279	62.38	52.48
## 280	55.69	125.57
## 281	63.52	144.07
## 282	66.45	123.93
## 283	64.44	91.36
## 284	62.27	136.81
## 285	60.20	162.04
## 286	60.08	141.91
## 287	53.74	51.20
## 288	63.79	120.44
## 289	59.41	131.70
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## 290	57.55	93.91
## 291	63.25	118.79
## 292	59.78	111.27
## 293	58.73	129.74
## 294	52.09	150.96
## 295	56.33	50.08
## 296	55.82	83.22
## 297	58.35	49.84
## 298	50.33	53.97
## 299	61.39	77.56
## 300	35.26	14.15
## 301	25.32	110.16
## 302	50.53	78.01
## 303	52.36	90.32
## 304	54.77	72.63
## 305	60.44	74.16
## 306	56.33	43.49
## 307	53.30	45.41
## 308	53.13	83.49
## 309	61.99	80.84
## 310	48.79	55.01
## 311	53.97	80.73
## 312	50.28	51.11
## 313	29.92	44.50
## 314	40.54	102.11
## 315	54.61	153.68
## 316	42.72	54.56
## 317	43.99	66.88
## 318	26.37	44.96
## 319	39.91	72.57
## 320	53.53	94.38
## 321	35.34	118.44
## 322	37.82	54.47
## 323	47.56	56.56
## 324	42.58	59.38
## 325	38.61	72.16
## 326	51.53	92.40
## 327	53.00	87.90
## 328	50.49	51.83
## 329	34.96	117.30
## 330	25.06	11.84
## 331	44.56	83.33
## 332	28.80	2.24
## 333	37.30	40.02
## 334	41.88	90.05
## 335	53.01	90.92
## 336	34.25	125.38
## 337	42.14	71.93
## 338	34.80	64.30
## 339	32.03	133.28
## 340	48.83	61.08
## 341	37.83	77.71
## 342	33.42	105.16
## 343	34.75	27.70
## 344	47.20	91.00
## 345	35.92	32.08
## 346	36.69	35.23
## 347	40.60	44.10
## 348	28.58	58.71
## 349	43.53	58.45
## 350	34.18	61.88
## 351	42.21	83.65
## 352	43.65	32.05
## 353	41.31	61.43
## 354	43.45	55.74
## 355	25.71	22.53
## 356	42.93	108.84
## 357	33.88	60.74
## 358	32.93	75.09
## 359	48.98	59.51
## 360	25.83	91.05
## 361	42.79	52.58
## 362	34.49	39.76

## 363	32.43	29.36
## 364	22.16	73.49
## 365	38.79	41.16
## 366	40.01	36.57
## 367	42.56	63.24
## 368	24.70	76.04
## 369	35.68	79.45
## 370	35.79	57.49
## 371	38.37	76.20
## 372	23.81	59.51
## 373	27.58	28.42
## 374	30.83	51.76
## 375	25.04	82.84
## 376	39.89	76.34
## 377	29.22	86.03
## 378	18.94	40.85
## 379	22.28	41.36
## 380	42.75	139.17
## 381	35.98	30.62
## 382	24.79	28.95
## 383	43.81	73.59
## 384	24.08	27.20
## 385	31.08	39.34
## 386	30.38	79.20
## 387	38.21	70.10
## 388	32.84	27.96
## 389	32.38	48.63
## 390	30.99	84.10
## 391	20.17	33.13
## 392	33.38	35.94
## 393	40.72	98.98
## 394	39.75	58.57
## 395	32.60	61.94
## 396	27.12	82.93
## 397	36.15	40.22
## 398	35.39	41.02
## 399	34.82	76.70
## 400	34.44	52.16
## 401	33.78	70.68
## 402	36.24	76.26
## 403	40.88	57.01
## 404	29.14	49.70
## 405	34.34	52.57
## 406	33.34	77.35
## 407	38.34	53.50
## 408	26.71	46.21
## 409	37.47	59.76
## 410	30.29	66.32
## 411	28.58	47.26
## 412	21.05	44.08
## 413	32.27	38.94
## 414	35.35	55.46
## 415	33.54	56.94
## 416	30.17	56.37
## 417	30.16	94.00
## 418	24.11	40.04
## 419	27.85	50.13
## 420	19.56	30.36
## 421	32.27	77.78
## 422	30.21	61.98
## 423	35.96	45.00
## 424	31.35	35.89
## 425	31.56	71.81
## 426	32.52	60.25
## 427	23.94	50.19
## 428	32.88	53.70
## 429	30.19	60.20
## 430	21.53	24.37
## 431	32.23	53.01
## 432	30.88	53.02
## 433	28.20	82.62
## 434	25.89	44.63
## 435	28.86	59.11

" "	" "	" "
# # 436	21.20	27.54
# # 437	40.12	42.96
# # 438	28.06	61.04
# # 439	16.96	37.81
# # 440	28.35	40.76
# # 441	29.59	56.52
# # 442	15.10	28.81
# # 443	28.82	25.91
# # 444	36.72	41.50
# # 445	27.80	50.21
# # 446	27.92	37.44
# # 447	13.44	30.83
# # 448	37.00	41.22
# # 449	25.13	64.55
# # 450	28.69	41.45
# # 451	26.30	51.30
# # 452	29.16	40.99
# # 453	29.54	40.89
# # 454	30.51	51.40
# # 455	24.29	33.64
# # 456	33.07	79.87
# # 457	38.05	46.29
# # 458	34.16	40.78
# # 459	24.07	42.73
# # 460	23.59	56.87
# # 461	24.50	34.02
# # 462	27.42	61.79
# # 463	30.43	32.92
# # 464	21.44	57.91
# # 465	39.27	51.62
# # 466	31.16	49.09
# # 467	20.52	26.40
# # 468	26.26	37.30
# # 469	21.35	36.42
# # 470	27.83	19.41
# # 471	16.61	15.06
# # 472	33.31	33.43
# # 473	30.98	57.98
# # 474	31.66	43.40
# # 475	33.68	41.38
# # 476	31.59	49.19
# # 477	20.72	26.48
# # 478	24.92	59.11
# # 479	29.60	50.01
# # 480	17.97	27.91
# # 481	20.73	41.15
# # 482	25.09	24.38
# # 483	28.03	64.69
# # 484	31.52	53.68
# # 485	27.45	57.83
# # 486	27.52	113.89
# # 487	23.02	39.31
# # 488	29.22	39.57
# # 489	25.50	31.26
# # 490	21.66	25.17
# # 491	29.38	54.23
# # 492	23.51	39.37
# # 493	31.25	34.29
# # 494	24.44	40.29
# # 495	26.36	67.69
# # 496	24.36	44.80
# # 497	25.30	77.75
# # 498	24.53	89.48
# # 499	24.78	36.44
# # 500	23.63	4.18
# # 501	22.68	86.55
# # 502	20.42	30.39
# # 503	21.18	68.43
# # 504	18.70	96.51
# # 505	21.91	31.62
# # 506	15.87	35.51
# # 507	21.10	68.94
" " - - -	- - -	- - -

```

## 508          19.17          64.37
## 509          19.20          50.11
## 510          23.12          39.75
## 511          23.26          26.31
## 512          18.29          77.10
## 513          15.97          50.73
## 514          20.97          81.00
## 515          15.97          67.87
## 516          21.09          60.41
## 517          19.82          76.50
## 518          20.14          54.97
## 519          17.40          70.18
## 520          19.02          23.06
## 521          18.57          36.66
## 522          15.53          28.43
## 523          17.75          66.45
## 524          17.35          78.00
## 525          16.99          98.45
## 526          13.70          71.26
## 527          13.38          45.78
## 528          13.42          67.00
## 529          15.92          79.58
## 530          14.39          56.46
## 531          15.56          68.22
## 532          14.43          74.59
## 533          12.20          73.42
## 534          17.09          55.47
## 535          12.55          138.06
## 536          11.93          68.15

```

```
set.seed(450)
```

Basic Visualization of the data and getting acquainted with it

```
dim(data) #get the dimensionality of dataset
```

```
## [1] 536   8
```

```
sapply(data, class) #get the class of the dataset
```

```

##                      Rank                  City
##                      "integer"                "factor"
## Cost.of.Living.Index           Rent.Index
##                      "numeric"                "numeric"
## Cost.of.Living.Plus.Rent.Index Groceries.Index
##                      "numeric"                "numeric"
## Restaurant.Price.Index       Local.Purchasing.Power.Index
##                      "numeric"                "numeric"

```

```
levels(data$City) #see all the different factors in the City variable
```

```

## [1] "Aachen, Germany"
## [2] "Aalborg, Denmark"
## [3] "Abbotsford, Canada"
## [4] "Aberdeen, United Kingdom"
## [5] "Abu Dhabi, United Arab Emirates"
## [6] "Accra, Ghana"
## [7] "Ad Dammam, Saudi Arabia"
## [8] "Addis Ababa, Ethiopia"
## [9] "Adelaide, Australia"
## [10] "Ahmedabad, India"
## [11] "Al Khobar, Saudi Arabia"
## [12] "Albany, NY, United States"
## [13] "Albuquerque, NM, United States"
## [14] "Alexandria, Egypt"

```

```
## [15] "Algiers, Algeria"
## [16] "Alicante, Spain"
## [17] "Almaty, Kazakhstan"
## [18] "Amman, Jordan"
## [19] "Amsterdam, Netherlands"
## [20] "Anchorage, AK, United States"
## [21] "Ankara, Turkey"
## [22] "Ann Arbor, MI, United States"
## [23] "Antalya, Turkey"
## [24] "Antwerp, Belgium"
## [25] "Arad, Romania"
## [26] "Arhus, Denmark"
## [27] "Arlington, TX, United States"
## [28] "Asheville, NC, United States"
## [29] "Astana, Kazakhstan"
## [30] "Asuncion, Paraguay"
## [31] "Athens, Greece"
## [32] "Atlanta, GA, United States"
## [33] "Auckland, New Zealand"
## [34] "Austin, TX, United States"
## [35] "Baghdad, Iraq"
## [36] "Bakersfield, CA, United States"
## [37] "Baku, Azerbaijan"
## [38] "Bali, Indonesia"
## [39] "Baltimore, MD, United States"
## [40] "Bandar Seri Begawan, Brunei"
## [41] "Bandung, Indonesia"
## [42] "Bangalore, India"
## [43] "Bangkok, Thailand"
## [44] "Banja Luka, Bosnia And Herzegovina"
## [45] "Barcelona, Spain"
## [46] "Barranquilla, Colombia"
## [47] "Barrie, Canada"
## [48] "Basel, Switzerland"
## [49] "Bath, United Kingdom"
## [50] "Beijing, China"
## [51] "Beirut, Lebanon"
## [52] "Belfast, United Kingdom"
## [53] "Belgrade, Serbia"
## [54] "Bellevue, WA, United States"
## [55] "Bellingham, WA, United States"
## [56] "Belo Horizonte, Brazil"
## [57] "Bergen, Norway"
## [58] "Berkeley, CA, United States"
## [59] "Berlin, Germany"
## [60] "Bern, Switzerland"
## [61] "Bhopal, India"
## [62] "Bhubaneswar, India"
## [63] "Birmingham, AL, United States"
## [64] "Birmingham, United Kingdom"
## [65] "Bogota, Colombia"
## [66] "Boise, ID, United States"
## [67] "Bologna, Italy"
## [68] "Bonn, Germany"
## [69] "Bordeaux, France"
## [70] "Boston, MA, United States"
## [71] "Boulder, CO, United States"
## [72] "Braga, Portugal"
## [73] "Brampton, Canada"
## [74] "Brasilia, Brazil"
## [75] "Brasov, Romania"
## [76] "Bratislava, Slovakia"
## [77] "Bremen, Germany"
## [78] "Brighton, United Kingdom"
## [79] "Brisbane, Australia"
## [80] "Bristol, United Kingdom"
## [81] "Brno, Czech Republic"
## [82] "Brooklyn, NY, United States"
## [83] "Brussels, Belgium"
## [84] "Bucharest, Romania"
## [85] "Budapest, Hungary"
## [86] "Buenos Aires, Argentina"
## [87] "Buffalo, NY, United States"
```

```
## [88] "Burgas, Bulgaria"
## [89] "Burlington, Canada"
## [90] "Burlington, VT, United States"
## [91] "Burnaby, Canada"
## [92] "Bursa, Turkey"
## [93] "Bydgoszcz, Poland"
## [94] "Cagliari, Italy"
## [95] "Cairo, Egypt"
## [96] "Calgary, Canada"
## [97] "Cali, Colombia"
## [98] "Cambridge, United Kingdom"
## [99] "Campinas, Brazil"
## [100] "Canberra, Australia"
## [101] "Cancun, Mexico"
## [102] "Cape Town, South Africa"
## [103] "Caracas, Venezuela"
## [104] "Cardiff, United Kingdom"
## [105] "Casablanca, Morocco"
## [106] "Cebu, Philippines"
## [107] "Chandigarh, India"
## [108] "Charleston, SC, United States"
## [109] "Charlotte, NC, United States"
## [110] "Chattanooga, TN, United States"
## [111] "Chelyabinsk, Russia"
## [112] "Chengdu, China"
## [113] "Chennai, India"
## [114] "Chiang Mai, Thailand"
## [115] "Chicago, IL, United States"
## [116] "Chisinau, Moldova"
## [117] "Christchurch, New Zealand"
## [118] "Cincinnati, OH, United States"
## [119] "Cleveland, OH, United States"
## [120] "Cluj-Napoca, Romania"
## [121] "Coimbatore, India"
## [122] "Coimbra, Portugal"
## [123] "Cologne, Germany"
## [124] "Colombo, Sri Lanka"
## [125] "Columbia, SC, United States"
## [126] "Columbus, OH, United States"
## [127] "Constanta, Romania"
## [128] "Copenhagen, Denmark"
## [129] "Coquitlam, Canada"
## [130] "Cork, Ireland"
## [131] "Coventry, United Kingdom"
## [132] "Craiova, Romania"
## [133] "Cuenca, Ecuador"
## [134] "Curitiba, Brazil"
## [135] "Dallas, TX, United States"
## [136] "Dar es Salaam, Tanzania"
## [137] "Darwin, Australia"
## [138] "Davao, Philippines"
## [139] "Dayton, OH, United States"
## [140] "Debrecen, Hungary"
## [141] "Delhi, India"
## [142] "Denver, CO, United States"
## [143] "Derby, United Kingdom"
## [144] "Des Moines, IA, United States"
## [145] "Detroit, MI, United States"
## [146] "Dhaka, Bangladesh"
## [147] "Dnipro, Ukraine"
## [148] "Doha, Qatar"
## [149] "Dresden, Germany"
## [150] "Dubai, United Arab Emirates"
## [151] "Dublin, Ireland"
## [152] "Dumaguete, Philippines"
## [153] "Dunedin, New Zealand"
## [154] "Durban, South Africa"
## [155] "Dusseldorf, Germany"
## [156] "Edinburgh, United Kingdom"
## [157] "Edmonton, Canada"
## [158] "Eindhoven, Netherlands"
## [159] "El Paso, TX, United States"
## [160] "Enugu, Nigeria"
```

```
## [160] "Espoo, Finland"
## [161] "Eugene, OR, United States"
## [162] "Everett, WA, United States"
## [163] "Exeter, United Kingdom"
## [164] "Fayetteville, AR, United States"
## [165] "Florence, Italy"
## [166] "Florianopolis, Brazil"
## [167] "Fort Myers, FL, United States"
## [168] "Fort Wayne, IN, United States"
## [169] "Fort Worth, TX, United States"
## [170] "Frankfurt, Germany"
## [171] "Fresno, CA, United States"
## [172] "Funchal, Portugal"
## [173] "Gainesville, FL, United States"
## [174] "Galway, Ireland"
## [175] "Gdansk, Poland"
## [176] "Gdynia, Poland"
## [177] "Geneva, Switzerland"
## [178] "Genoa, Italy"
## [179] "Gent, Belgium"
## [180] "Glasgow, United Kingdom"
## [181] "Goa, India"
## [182] "Gold Coast, Australia"
## [183] "Gothenburg, Sweden"
## [184] "Granada, Spain"
## [185] "Grand Rapids, MI, United States"
## [186] "Graz, Austria"
## [187] "Greensboro, NC, United States"
## [188] "Grenoble, France"
## [189] "Groningen, Netherlands"
## [190] "Guadalajara, Mexico"
## [191] "Guangzhou, China"
## [192] "Guatemala City, Guatemala"
## [193] "Guayaquil, Ecuador"
## [194] "Gurgaon, India"
## [195] "Guwahati, India"
## [196] "Haifa, Israel"
## [197] "Halifax, Canada"
## [198] "Hamburg, Germany"
## [199] "Hamilton, Bermuda"
## [200] "Hamilton, Canada"
## [201] "Hamilton, New Zealand"
## [202] "Hanoi, Vietnam"
## [203] "Hanover, Germany"
## [204] "Harare, Zimbabwe"
## [205] "Hartford, CT, United States"
## [206] "Havana, Cuba"
## [207] "Heidelberg, Germany"
## [208] "Helsinki, Finland"
## [209] "Ho Chi Minh City, Vietnam"
## [210] "Hobart, Australia"
## [211] "Hong Kong, Hong Kong"
## [212] "Honolulu, HI, United States"
## [213] "Houston, TX, United States"
## [214] "Huntsville, AL, United States"
## [215] "Hyderabad, India"
## [216] "Iasi, Romania"
## [217] "Indianapolis, IN, United States"
## [218] "Indore, India"
## [219] "Innsbruck, Austria"
## [220] "Irbil, Iraq"
## [221] "Irvine, CA, United States"
## [222] "Islamabad, Pakistan"
## [223] "Istanbul, Turkey"
## [224] "Izmir, Turkey"
## [225] "Jacksonville, FL, United States"
## [226] "Jaipur, India"
## [227] "Jakarta, Indonesia"
## [228] "Jeddah (Jiddah), Saudi Arabia"
## [229] "Jersey City, NJ, United States"
## [230] "Jerusalem, Israel"
## [231] "Johannesburg, South Africa"
## [232] "Johor Bahru, Malaysia"
```

```
## [233] "Kalininograd, Russia"
## [234] "Kampala, Uganda"
## [235] "Kansas City, MO, United States"
## [236] "Kaohsiung, Taiwan"
## [237] "Karachi, Pakistan"
## [238] "Karlsruhe, Germany"
## [239] "Kathmandu, Nepal"
## [240] "Katowice, Poland"
## [241] "Kaunas, Lithuania"
## [242] "Kazan, Russia"
## [243] "Kelowna, Canada"
## [244] "Kharkiv, Ukraine"
## [245] "Kiev, Ukraine"
## [246] "Kingston, Canada"
## [247] "Kingston, Jamaica"
## [248] "Kitchener, Canada"
## [249] "Klaipeda, Lithuania"
## [250] "Knoxville, TN, United States"
## [251] "Kochi, India"
## [252] "Kolkata, India"
## [253] "Kosice, Slovakia"
## [254] "Kota Kinabalu, Malaysia"
## [255] "Krakow (Cracow), Poland"
## [256] "Krasnodar, Russia"
## [257] "Kuala Lumpur, Malaysia"
## [258] "Kuching, Malaysia"
## [259] "Lagos, Nigeria"
## [260] "Lahore, Pakistan"
## [261] "Larnaca, Cyprus"
## [262] "Las Palmas de Gran Canaria, Spain"
## [263] "Las Vegas, NV, United States"
## [264] "Lausanne, Switzerland"
## [265] "Leeds, United Kingdom"
## [266] "Leicester, United Kingdom"
## [267] "Leiden, Netherlands"
## [268] "Leipzig, Germany"
## [269] "Leuven, Belgium"
## [270] "Lexington, KY, United States"
## [271] "Lille, France"
## [272] "Lima, Peru"
## [273] "Limassol, Cyprus"
## [274] "Limerick, Ireland"
## [275] "Linz, Austria"
## [276] "Lisbon, Portugal"
## [277] "Little Rock, AR, United States"
## [278] "Liverpool, United Kingdom"
## [279] "Ljubljana, Slovenia"
## [280] "Lodz, Poland"
## [281] "London, Canada"
## [282] "London, United Kingdom"
## [283] "Long Beach, CA, United States"
## [284] "Los Angeles, CA, United States"
## [285] "Louisville, KY, United States"
## [286] "Lubbock, TX, United States"
## [287] "Lublin, Poland"
## [288] "Lucknow (Lakhnau), India"
## [289] "Ludhiana, India"
## [290] "Lugano, Switzerland"
## [291] "Luxembourg, Luxembourg"
## [292] "Lviv, Ukraine"
## [293] "Lyon, France"
## [294] "Maastricht, Netherlands"
## [295] "Madison, WI, United States"
## [296] "Madrid, Spain"
## [297] "Makati, Philippines"
## [298] "Malaga, Spain"
## [299] "Male, Maldives"
## [300] "Malmo, Sweden"
## [301] "Manama, Bahrain"
## [302] "Manchester, United Kingdom"
## [303] "Mangalore, India"
## [304] "Manila, Philippines"
## [305] "Mannheim, Germany"
```

```
## [306] "Maribor, Slovenia"
## [307] "Marseille, France"
## [308] "Medellin, Colombia"
## [309] "Melbourne, Australia"
## [310] "Memphis, TN, United States"
## [311] "Merida, Mexico"
## [312] "Mexico City, Mexico"
## [313] "Miami, FL, United States"
## [314] "Milan, Italy"
## [315] "Milton Keynes, United Kingdom"
## [316] "Milwaukee, WI, United States"
## [317] "Minneapolis, MN, United States"
## [318] "Minsk, Belarus"
## [319] "Mississauga, Canada"
## [320] "Moncton, Canada"
## [321] "Monterrey, Mexico"
## [322] "Montevideo, Uruguay"
## [323] "Montpellier, France"
## [324] "Montreal, Canada"
## [325] "Moscow, Russia"
## [326] "Mumbai, India"
## [327] "Munich, Germany"
## [328] "Muscat, Oman"
## [329] "Mysore, India"
## [330] "Nagpur, India"
## [331] "Nairobi, Kenya"
## [332] "Nanaimo, BC, Canada"
## [333] "Nantes, France"
## [334] "Naples, Italy"
## [335] "Nashville, TN, United States"
## [336] "Navi Mumbai, India"
## [337] "New Orleans, LA, United States"
## [338] "New York, NY, United States"
## [339] "Newcastle upon Tyne, United Kingdom"
## [340] "Newcastle, Australia"
## [341] "Nice, France"
## [342] "Nicosia, Cyprus"
## [343] "Nis, Serbia"
## [344] "Nizhny Novgorod, Russia"
## [345] "Noida, India"
## [346] "Norwich, United Kingdom"
## [347] "Nottingham, United Kingdom"
## [348] "Novi Sad, Serbia"
## [349] "Novosibirsk, Russia"
## [350] "Nuremberg, Germany"
## [351] "Oakland, CA, United States"
## [352] "Odense, Denmark"
## [353] "Odessa, Ukraine"
## [354] "Oklahoma City, OK, United States"
## [355] "Olomouc, Czech Republic"
## [356] "Olympia, WA, United States"
## [357] "Oradea, Romania"
## [358] "Orlando, FL, United States"
## [359] "Osaka, Japan"
## [360] "Oshawa, Canada"
## [361] "Osijek, Croatia"
## [362] "Oslo, Norway"
## [363] "Ostrava, Czech Republic"
## [364] "Ottawa, Canada"
## [365] "Oxford, United Kingdom"
## [366] "Padova, Italy"
## [367] "Palermo, Italy"
## [368] "Palma de Mallorca, Spain"
## [369] "Panama City, Panama"
## [370] "Paramaribo, Suriname"
## [371] "Paris, France"
## [372] "Pattaya, Thailand"
## [373] "Penang, Malaysia"
## [374] "Peoria, IL, United States"
## [375] "Perth, Australia"
## [376] "Petaling Jaya, Malaysia"
## [377] "Peterborough, United Kingdom"
## [378] "Pittsburgh, PA, United States"
```

```
## [378] "Philadelphia, PA, United States"
## [379] "Phnom Penh, Cambodia"
## [380] "Phoenix, AZ, United States"
## [381] "Phuket, Thailand"
## [382] "Pittsburgh, PA, United States"
## [383] "Plovdiv, Bulgaria"
## [384] "Plymouth, United Kingdom"
## [385] "Podgorica, Montenegro"
## [386] "Port Elizabeth, South Africa"
## [387] "Port of Spain, Trinidad And Tobago"
## [388] "Portland, ME, United States"
## [389] "Portland, OR, United States"
## [390] "Porto Alegre, Brazil"
## [391] "Porto, Portugal"
## [392] "Portsmouth, United Kingdom"
## [393] "Poznan, Poland"
## [394] "Prague, Czech Republic"
## [395] "Pretoria, South Africa"
## [396] "Pristina, Kosovo (Disputed Territory)"
## [397] "Puebla, Mexico"
## [398] "Puerto Vallarta, Mexico"
## [399] "Pune, India"
## [400] "Quebec City, Canada"
## [401] "Queretaro, Mexico"
## [402] "Quezon City, Philippines"
## [403] "Quito, Ecuador"
## [404] "Rabat, Morocco"
## [405] "Raleigh, NC, United States"
## [406] "Ramat Gan, Israel"
## [407] "Reading, United Kingdom"
## [408] "Recife, Brazil"
## [409] "Red Deer, Canada"
## [410] "Regina, Canada"
## [411] "Reno, NV, United States"
## [412] "Reykjavik, Iceland"
## [413] "Richmond, VA, United States"
## [414] "Riga, Latvia"
## [415] "Rijeka, Croatia"
## [416] "Rio de Janeiro, Brazil"
## [417] "Riyadh, Saudi Arabia"
## [418] "Rochester, NY, United States"
## [419] "Rome, Italy"
## [420] "Rostov-na-donu, Russia"
## [421] "Rotterdam, Netherlands"
## [422] "Sacramento, CA, United States"
## [423] "Saint Louis, MO, United States"
## [424] "Saint Paul, MN, United States"
## [425] "Saint Petersburg, FL, United States"
## [426] "Saint Petersburg, Russia"
## [427] "Salem, OR, United States"
## [428] "Salt Lake City, UT, United States"
## [429] "Samara, Russia"
## [430] "San Antonio, TX, United States"
## [431] "San Diego, CA, United States"
## [432] "San Francisco, CA, United States"
## [433] "San Jose, CA, United States"
## [434] "San Jose, Costa Rica"
## [435] "San Juan, Puerto Rico"
## [436] "San Salvador, El Salvador"
## [437] "Santa Barbara, CA, United States"
## [438] "Santa Cruz de Tenerife, Spain"
## [439] "Santa Rosa, CA, United States"
## [440] "Santiago, Chile"
## [441] "Santo Domingo, Dominican Republic"
## [442] "Sao Paulo, Brazil"
## [443] "Sarajevo, Bosnia And Herzegovina"
## [444] "Saskatoon, Canada"
## [445] "Seattle, WA, United States"
## [446] "Selangor, Malaysia"
## [447] "Seoul, South Korea"
## [448] "Seville (Sevilla), Spain"
## [449] "Shanghai, China"
## [450] "Sharjah, United Arab Emirates"
```

```
## [451] "Sheffield, United Kingdom"
## [452] "Shenzhen, China"
## [453] "Sibiu, Romania"
## [454] "Singapore, Singapore"
## [455] "Skopje, Macedonia"
## [456] "Sliema, Malta"
## [457] "Sofia, Bulgaria"
## [458] "Southampton, United Kingdom"
## [459] "Split, Croatia"
## [460] "Spokane, WA, United States"
## [461] "Springfield, MO, United States"
## [462] "St. John's, NL, Canada"
## [463] "Stavanger, Norway"
## [464] "Stockholm, Sweden"
## [465] "Strasbourg, France"
## [466] "Stuttgart, Germany"
## [467] "Sumy, Ukraine"
## [468] "Surabaya, Indonesia"
## [469] "Surat, India"
## [470] "Surrey, Canada"
## [471] "Suzhou, China"
## [472] "Swindon, United Kingdom"
## [473] "Sydney, Australia"
## [474] "Syracuse, NY, United States"
## [475] "Szczecin, Poland"
## [476] "Szeged, Hungary"
## [477] "Tacoma, WA, United States"
## [478] "Taichung, Taiwan"
## [479] "Taipei, Taiwan"
## [480] "Tallahassee, FL, United States"
## [481] "Tallinn, Estonia"
## [482] "Tampa, FL, United States"
## [483] "Tampere, Finland"
## [484] "Tartu, Estonia"
## [485] "Tashkent, Uzbekistan"
## [486] "Tbilisi, Georgia"
## [487] "Tehran, Iran"
## [488] "Tel Aviv-Yafo, Israel"
## [489] "Thane, India"
## [490] "The Hague (Den Haag), Netherlands"
## [491] "Thessaloniki, Greece"
## [492] "Thiruvananthapuram, India"
## [493] "Tijuana, Mexico"
## [494] "Timisoara, Romania"
## [495] "Tirana, Albania"
## [496] "Tokyo, Japan"
## [497] "Toledo, OH, United States"
## [498] "Toronto, Canada"
## [499] "Toulouse, France"
## [500] "Trieste, Italy"
## [501] "Trondheim, Norway"
## [502] "Tucson, AZ, United States"
## [503] "Tulsa, OK, United States"
## [504] "Tunis, Tunisia"
## [505] "Turin, Italy"
## [506] "Turku, Finland"
## [507] "Ulaanbaatar, Mongolia"
## [508] "Uppsala, Sweden"
## [509] "Utrecht, Netherlands"
## [510] "Vadodara, India"
## [511] "Valencia, Spain"
## [512] "Vancouver, Canada"
## [513] "Vancouver, WA, United States"
## [514] "Varna, Bulgaria"
## [515] "Victoria, Canada"
## [516] "Vienna, Austria"
## [517] "Vilnius, Lithuania"
## [518] "Virginia Beach, VA, United States"
## [519] "Visakhapatnam, India"
## [520] "Voronezh, Russia"
## [521] "Warsaw, Poland"
## [522] "Washington, DC, United States"
## [523] "Wellington, New Zealand"
```

```

## [524] "West Palm Beach, FL, United States"
## [525] "Wichita, KS, United States"
## [526] "Windhoek, Namibia"
## [527] "Windsor, Canada"
## [528] "Winnipeg, Canada"
## [529] "Wroclaw, Poland"
## [530] "Yekaterinburg, Russia"
## [531] "Yerevan, Armenia"
## [532] "Yogyakarta, Indonesia"
## [533] "York, United Kingdom"
## [534] "Zagreb, Croatia"
## [535] "Zaragoza (Saragossa), Spain"
## [536] "Zurich, Switzerland"

```

```
summary(data) #get the basic summary of the whole dataset
```

```

##      Rank                               City
## Min.   : 1.0   Aachen, Germany           : 1
## 1st Qu.:134.8  Aalborg, Denmark         : 1
## Median :268.5 Abbotsford, Canada        : 1
## Mean   :268.5 Aberdeen, United Kingdom  : 1
## 3rd Qu.:402.2 Abu Dhabi, United Arab Emirates: 1
## Max.   :536.0 Accra, Ghana             : 1
##          (Other)                      :530
## Cost.of.Living.Index   Rent.Index     Cost.of.Living.Plus.Rent.Index
## Min.   : 19.26      Min.   : 3.43      Min.   : 12.36
## 1st Qu.: 39.37      1st Qu.: 11.69    1st Qu.: 26.65
## Median : 61.97      Median : 23.09    Median : 44.45
## Mean   : 57.19      Mean   : 25.21    Mean   : 42.05
## 3rd Qu.: 70.86      3rd Qu.: 33.44    3rd Qu.: 53.09
## Max.   :137.56      Max.   :106.49    Max.   :121.21
##
## Groceries.Index Restaurant.Price.Index Local.Purchasing.Power.Index
## Min.   : 18.01      Min.   : 11.93      Min.   : 2.24
## 1st Qu.: 31.50      1st Qu.: 31.55      1st Qu.: 56.79
## Median : 51.57      Median : 59.41      Median : 94.11
## Mean   : 49.76      Mean   : 54.68      Mean   : 89.49
## 3rd Qu.: 62.76      3rd Qu.: 72.34      3rd Qu.:119.50
## Max.   :127.35      Max.   :151.77      Max.   :186.00
##

```

Variable Selection with Linear Regression Analysis

```
#we will perform a linear regression to predict rank based on all other variables
```

```
#We just have to get rid of the numerical predictor ()
```

```
CL=data.frame(data$Rank,data$Cost.of.Living.Index,data$Rent.Index,data$Cost.of.Living.Plus.Rent.Index,data$Groceries.Index,data$Restaurant.Price.Index,data$Local.Purchasing.Power.Index)
head(CL)
```

```

##   data.Rank data.Cost.of.Living.Index data.Rent.Index
## 1          1            137.56        103.03
## 2          2            128.65        62.62
## 3          3            126.89        46.14
## 4          4            119.62        50.35
## 5          5            118.42        39.22
## 6          6            118.33        69.16
##   data.Cost.of.Living.Plus.Rent.Index data.Groceries.Index
## 1                      121.21        126.56
## 2                      97.39         127.35
## 3                      88.66         120.44
## 4                      86.83         116.35
## 5                      80.93         114.54
## 6                      95.06         112.08
##   data.Restaurant.Price.Index data.Local.Purchasing.Power.Index
## 1                  151.77        114.19
## 2                  127.14        142.39
## 3                  129.10        141.48
## 4                  122.83        132.58
## 5                  114.86        115.48
## 6                  119.78        133.47

```

```

lm<- lm(Rank ~ ., data=CL)
summary(lm)

```

```

## Warning in summary.lm(lm): essentially perfect fit: summary may be
## unreliable

```

```

##
## Call:
## lm(formula = Rank ~ ., data = CL)
##
## Residuals:
##      Min       1Q     Median       3Q      Max
## -1.792e-13 -1.077e-14 -2.080e-15  9.100e-15  1.061e-12
##
## Coefficients:
##                               Estimate Std. Error t value
## (Intercept)             -2.357e-13  3.979e-14 -5.923e+00
## data.Rank                 1.000e+00  5.520e-17  1.812e+16
## data.Cost.of.Living.Index 4.260e-13  3.204e-13  1.330e+00
## data.Rent.Index            3.804e-13  2.880e-13  1.321e+00
## data.Cost.of.Living.Plus.Rent.Index -8.039e-13  6.084e-13 -1.321e+00
## data.Groceries.Index       4.225e-16  4.815e-16  8.770e-01
## data.Restaurant.Price.Index -1.969e-16  3.409e-16 -5.780e-01
## data.Local.Purchasing.Power.Index -4.706e-18  8.500e-17 -5.500e-02
##                               Pr(>|t|)
## (Intercept)             5.69e-09 ***
## data.Rank                < 2e-16 ***
## data.Cost.of.Living.Index 0.184
## data.Rent.Index           0.187
## data.Cost.of.Living.Plus.Rent.Index 0.187
## data.Groceries.Index      0.381
## data.Restaurant.Price.Index 0.564
## data.Local.Purchasing.Power.Index 0.956
## ---
## Signif. codes:  0 '****' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 5.033e-14 on 528 degrees of freedom
## Multiple R-squared:      1, Adjusted R-squared:      1
## F-statistic: 7.237e+32 on 7 and 528 DF,  p-value: < 2.2e-16

```

This won't tell us too much with all the predictors (some of which may be not significant predictors)

We will backward selection manually using alpha = 0.05 as a threshold. We will go one-by-one removing all the predictors with p-values > 0.05.

```

summary(lm(Rank ~ ., data=CL))

```

```

## Warning in summary.lm(lm(Rank ~ ., data = CL)): essentially perfect fit:
## summary may be unreliable

## 
## Call:
## lm(formula = Rank ~ ., data = CL)
## 
## Residuals:
##      Min       1Q   Median       3Q      Max 
## -1.792e-13 -1.077e-14 -2.080e-15  9.100e-15  1.061e-12 
## 
## Coefficients:
##                               Estimate Std. Error t value
## (Intercept)           -2.357e-13  3.979e-14 -5.923e+00
## data.Rank              1.000e+00  5.520e-17  1.812e+16
## data.Cost.of.Living.Index 4.260e-13  3.204e-13  1.330e+00
## data.Rent.Index         3.804e-13  2.880e-13  1.321e+00
## data.Cost.of.Living.Plus.Rent.Index -8.039e-13  6.084e-13 -1.321e+00
## data.Groceries.Index    4.225e-16  4.815e-16  8.770e-01
## data.Restaurant.Price.Index -1.969e-16  3.409e-16 -5.780e-01
## data.Local.Purchasing.Power.Index -4.706e-18  8.500e-17 -5.500e-02
##                               Pr(>|t|)    
## (Intercept)           5.69e-09 ***
## data.Rank             < 2e-16 ***
## data.Cost.of.Living.Index 0.184
## data.Rent.Index        0.187
## data.Cost.of.Living.Plus.Rent.Index 0.187
## data.Groceries.Index   0.381
## data.Restaurant.Price.Index 0.564
## data.Local.Purchasing.Power.Index 0.956
## --- 
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 
## Residual standard error: 5.033e-14 on 528 degrees of freedom
## Multiple R-squared:      1, Adjusted R-squared:      1
## F-statistic: 7.237e+32 on 7 and 528 DF,  p-value: < 2.2e-16

```

The predictor with the greatest p-value is Local Purchasing Power Index (with a p-value of 0.956), so we will remove that one

```
summary(lm(Rank ~ CL$data.Cost.of.Living.Index+CL$data.Rent.Index+CL$data.Cost.of.Living.Plus.Rent.Index+CL$data.Groceries.Index+CL$data.Restaurant.Price.Index, data=CL))
```

```

## 
## Call:
## lm(formula = Rank ~ CL$data.Cost.of.Living.Index + CL$data.Rent.Index +
##     CL$data.Cost.of.Living.Plus.Rent.Index + CL$data.Groceries.Index +
##     CL$data.Restaurant.Price.Index, data = CL)
##
## Residuals:
##    Min      1Q Median      3Q     Max
## -78.47 -19.63   3.21  16.34 346.69
##
## Coefficients:
##                               Estimate Std. Error t value
## (Intercept)               693.6673   6.8777 100.858
## CL$data.Cost.of.Living.Index    77.7586  253.8245   0.306
## CL$data.Rent.Index            76.6571  228.1565   0.336
## CL$data.Cost.of.Living.Plus.Rent.Index -163.4072  482.0143  -0.339
## CL$data.Groceries.Index        1.1048   0.3725   2.966
## CL$data.Restaurant.Price.Index  0.2171   0.2592   0.838
##                               Pr(>|t|)
## (Intercept) < 2e-16 ***
## CL$data.Cost.of.Living.Index  0.75946
## CL$data.Rent.Index           0.73702
## CL$data.Cost.of.Living.Plus.Rent.Index  0.73474
## CL$data.Groceries.Index       0.00315 **
## CL$data.Restaurant.Price.Index 0.40256
## ---
## Signif. codes:  0 '****' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 39.9 on 530 degrees of freedom
## Multiple R-squared:  0.9342, Adjusted R-squared:  0.9336
## F-statistic:  1506 on 5 and 530 DF,  p-value: < 2.2e-16

```

The remaining predictor with the greatest p-value is Cost of Living Index (with a p-value of 0.75946), so we will remove that one.

#This is interesting as one would assume cost of living would be highly related to the rank of the city.

```
summary(lm(Rank ~ CL$data.Rent.Index+CL$data.Cost.of.Living.Plus.Rent.Index+CL$data.Groceries.Index+CL$data.Restaurant.Price.Index, data=CL))
```

```

## 
## Call:
## lm(formula = Rank ~ CL$data.Rent.Index + CL$data.Cost.of.Living.Plus.Rent.Index +
##     CL$data.Groceries.Index + CL$data.Restaurant.Price.Index,
##     data = CL)
##
## Residuals:
##    Min      1Q Median      3Q     Max
## -78.23 -19.37   3.10  16.21 347.22
##
## Coefficients:
##                               Estimate Std. Error t value
## (Intercept)               693.6202   6.8701 100.963
## CL$data.Rent.Index          6.7621   0.5432  12.450
## CL$data.Cost.of.Living.Plus.Rent.Index -15.7435   1.0769 -14.619
## CL$data.Groceries.Index      1.0953   0.3709   2.953
## CL$data.Restaurant.Price.Index  0.2182   0.2589   0.843
##                               Pr(>|t|)
## (Intercept) < 2e-16 ***
## CL$data.Rent.Index < 2e-16 ***
## CL$data.Cost.of.Living.Plus.Rent.Index < 2e-16 ***
## CL$data.Groceries.Index  0.00328 **
## CL$data.Restaurant.Price.Index 0.39982
## ---
## Signif. codes:  0 '****' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 39.87 on 531 degrees of freedom
## Multiple R-squared:  0.9342, Adjusted R-squared:  0.9337
## F-statistic:  1886 on 4 and 531 DF,  p-value: < 2.2e-16

```

```
# The remaining predictor with the greatest p-value is Restaurant Price Index (with a p-value of 0.39982), so we will remove that one
```

```
summary(lm(Rank ~ CL$data.Rent.Index+CL$data.Cost.of.Living.Plus.Rent.Index+CL$data.Groceries.Index, data=CL))
```

```
##  
## Call:  
## lm(formula = Rank ~ CL$data.Rent.Index + CL$data.Cost.of.Living.Plus.Rent.Index +  
##       CL$data.Groceries.Index, data = CL)  
##  
## Residuals:  
##    Min      1Q  Median      3Q     Max  
## -78.20 -18.41    2.91   16.44  347.39  
##  
## Coefficients:  
##                               Estimate Std. Error t value  
## (Intercept)                690.4663    5.7593 119.89  
## CL$data.Rent.Index          6.4237    0.3657 17.57  
## CL$data.Cost.of.Living.Plus.Rent.Index -14.9792    0.5803 -25.81  
## CL$data.Groceries.Index      0.9240    0.3101   2.98  
##                               Pr(>|t|)  
## (Intercept) < 2e-16 ***  
## CL$data.Rent.Index < 2e-16 ***  
## CL$data.Cost.of.Living.Plus.Rent.Index < 2e-16 ***  
## CL$data.Groceries.Index      0.00302 **  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Residual standard error: 39.85 on 532 degrees of freedom  
## Multiple R-squared:  0.9342, Adjusted R-squared:  0.9338  
## F-statistic:  2516 on 3 and 532 DF,  p-value: < 2.2e-16
```

```
#all significant (p-values < 0.05)
```

```
finalLinearMod= (lm(Rank ~ CL$data.Rent.Index+CL$data.Cost.of.Living.Plus.Rent.Index+CL$data.Groceries.Index , data=CL))
```

The remaining 3 predictors (Rent Index, Cost of Living Plus Rent Index, Groceries Index), now have p-values < alpha = 0.05, so these predictors will remain in our final linear model.

To clarify, this analysis was not done to actually predict the rank based on factors (as will be done in the majority of our analyses) but to explore the predictors (Which are significant and which are not? Why might this be the case?)

This process of variable selection helps to show us the most significant predictors in determining Rank of a city (a high rank corresponds to high overall cost to live in that city).

This gives us an equation of the line of Rank= $6.4237 \text{Rent.Index} - 14.9792\text{Cost.of.Living.Plus.Rent.Index} + 0.9240*\text{Groceries.Index} + 690.4663$

It was unsurprising to see Rent Index was a significant predictor of overall cost of living as rent is the largest expense for most people.

At first, it was surprising that Cost of Living Index (excludes rent) by itself wasn't a significant predictor of rank. One may think this would be significant, as it seems in direct relation to overall cost to live in that city (and thus, its rank). However, it appears that cost of living index only becomes significant when rent index is considered along with it. This makes sense with the large magnitude of rent - even if other living expenses are cheap, if housing is expensive, the overall price to live will still likely be high (and vice-versa).

Groceries Index is the only non-rent related significant predictor. This is a bit surprising but a potential explanation is certain cities due to isolation from other cities (relatively small islands for example) have very high grocery prices due to shipping costs. These additional costs could be very significant (and has no relation to rent as rent could be low with high grocery prices). To exemplify this, the number 1 ranked city (most expensive to live in overall) has a high Groceries Index of 126.56 (26.56% higher than New York City), and is located on a (relatively) small island.

Overall, this linear regression variable selection gives us an idea on which variables are most significant predictors in determining Rank. This is important for interpretability. It becomes difficult to interpret linear regression (and other methods) when there are many variables (as there may be lots of interaction effect and noise). This interaction effect will be discussed in the multiple linear regression analysis.

Multiple Linear Regression

```
fit <- lm(data$Rank ~ data$Cost.of.Living.Index + data$Rent.Index + data$Cost.of.Living.Plus.Rent.Index + data$Groceries.Index + data$Restaurant.Price.Index + data$Local.Purchasing.Power.Index)
summary(fit)
```

```
## 
## Call:
## lm(formula = data$Rank ~ data$Cost.of.Living.Index + data$Rent.Index +
##     data$Cost.of.Living.Plus.Rent.Index + data$Groceries.Index +
##     data$Restaurant.Price.Index + data$Local.Purchasing.Power.Index)
## 
## Residuals:
##    Min      1Q  Median      3Q     Max 
## -82.70 -17.50    2.81   15.48  330.46 
## 
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)    
## (Intercept)                700.98819  7.31348  95.849 < 2e-16 ***
## data$Cost.of.Living.Index      53.49352 252.33816   0.212 0.832195    
## data$Rent.Index                  55.09453 226.81745   0.243 0.808175    
## data$Cost.of.Living.Plus.Rent.Index -117.73226 479.18684  -0.246 0.806016    
## data$Groceries.Index             1.27808  0.37521   3.406 0.000709 ***
## data$Restaurant.Price.Index       0.42486  0.26790   1.586 0.113354    
## data$Local.Purchasing.Power.Index -0.18669  0.06646  -2.809 0.005152 **  
## 
## (Intercept) *** 
## data$Cost.of.Living.Index
## data$Rent.Index
## data$Cost.of.Living.Plus.Rent.Index
## data$Groceries.Index ***
## data$Restaurant.Price.Index
## data$Local.Purchasing.Power.Index ** 
## --- 
## Signif. codes:  0 '****' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 
## 
## Residual standard error: 39.64 on 529 degrees of freedom
## Multiple R-squared:  0.9352, Adjusted R-squared:  0.9345 
## F-statistic:  1273 on 6 and 529 DF,  p-value: < 2.2e-16
```

By performing a Multiple Linear Regression on this dataset, with “Rank” being the response variable, we are able to determine how much of an influence each predictor has on the response variable “Rank”. This measure of significance is expressed in the above summary output of the data where we can see that the “Rank” increases relative to the estimate values for the predictor variables. Using this method of analysis we can determine that, for instance, as the “Cost of Living Index” increases, the rate at which rank will increase by is 53.49352. The influence of the “Rent Index” is also very similar with a estimate of 55.09453. An interesting predictor that has a negative correlation with respect to rank is the “Cost of Living Plus Rent Index” where the rank of the city increases as the predictor decreases at a rate estimate of -117.73226. Lastly the “Groceries Index”, “Restaurant Price Index”, and “Local Purchasing Power Index” predictors are less significant predictors with respect to the ranking of countries compared to the “Cost of Living Index” and “Rent Index”. Therefore, the cost of living index, rank index and cost of living plus rent index have the greatest influence on the rank of the countries within this dataset and are the most significant predictors with respect to the rank of a country. While the remaining predictors are far less significant in comparison. We are able to draw this inference since our Adjusted R-squared is equal to 0.9345 which tells us there is minor variation as the independent variables explain our response variable.

Regression Tree

```
library(tree)
```

```
## Warning: package 'tree' was built under R version 3.4.4
```

```
library(gclus)
```

```
## Warning: package 'gclus' was built under R version 3.4.4
```

```
## Loading required package: cluster
```

```
## Warning: package 'cluster' was built under R version 3.4.4
```

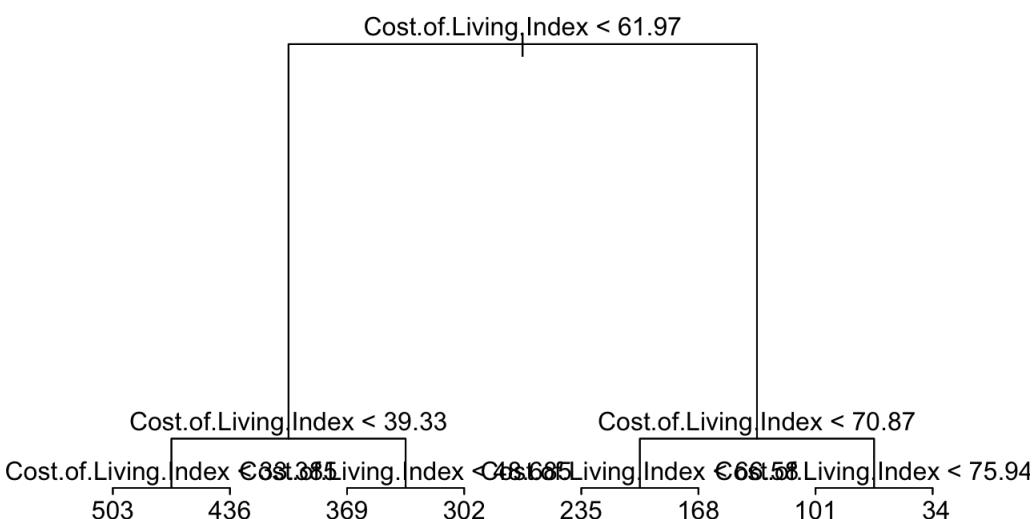
```
data1 <- data[,-2]
head(data1)
```

```
##   Rank Cost.of.Living.Index Rent.Index Cost.of.Living.Plus.Rent.Index
## 1     1       137.56      103.03        121.21
## 2     2       128.65       62.62         97.39
## 3     3       126.89       46.14         88.66
## 4     4       119.62       50.35         86.83
## 5     5       118.42       39.22         80.93
## 6     6       118.33       69.16         95.06
##   Groceries.Index Restaurant.Price.Index Local.Purchasing.Power.Index
## 1       126.56           151.77        114.19
## 2       127.35           127.14        142.39
## 3       120.44           129.10        141.48
## 4       116.35           122.83        132.58
## 5       114.54           114.86        115.48
## 6       112.08           119.78        133.47
```

```
simtree <- tree(Rank~Cost.of.Living.Index+Rent.Index+Cost.of.Living.Plus.Rent.Index+Groceries.Index+Restaurant.Price.Index+Local.Purchasing.Power.Index, data = data1)
summary(simtree)
```

```
##
## Regression tree:
## tree(formula = Rank ~ Cost.of.Living.Index + Rent.Index + Cost.of.Living.Plus.Rent.Index +
##       Groceries.Index + Restaurant.Price.Index + Local.Purchasing.Power.Index,
##       data = data1)
## Variables actually used in tree construction:
## [1] "Cost.of.Living.Index"
## Number of terminal nodes:  8
## Residual mean deviance:  379.7 = 200500 / 528
## Distribution of residuals:
##    Min. 1st Qu. Median Mean 3rd Qu. Max.
## -33     -17      0     0     17     33
```

```
plot(simtree)
text(simtree, pretty=0)
```



After performing a Regression

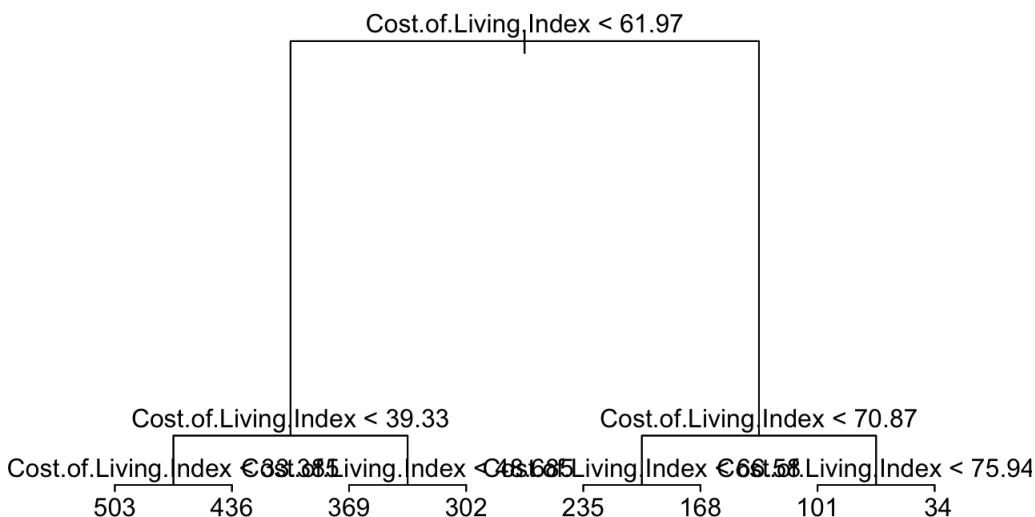
Tree analysis of the dataset we are presented with the tree above. At first glance we notice that all tree splitting is done with respect to "Cost of Living Index" and this can be because of many things. In this case the splitting happens on this predictor variable due to the fact that it is greatly correlated to the rank of a country. This characteristic was also observed in our Multiple Linear Regression Analysis proving that the "Cost of Living Index" significantly influences a countries given rank. Another noticeable trait is that there is a linear relation such that as the

"Cost of Living Index" increases, the rank of a country increases along with it. In other words a country that is expensive to live in with respect to taxes, food, rent, etc. will also be a very successful and thriving country nonetheless. This may not come off as a surprise, but as a given person within their respective country is spending more than the average person on living costs, their quality of living is often higher than average as well. Notice that the Regression Tree summary provides us with an absurdly large MSE of 379.7. This is to be expected as we are indeed overfitting the data and also the fact that the rank is greatly influenced by the "Cost of Living Index". Although this analysis does not help us draw any real inference as to how the other predictor variables affect the rank, we have proved that the "Cost of Living Index" is the most significant.

```
simtree1 <- tree(Rank ~ ., data=data1)
summary(simtree1)
```

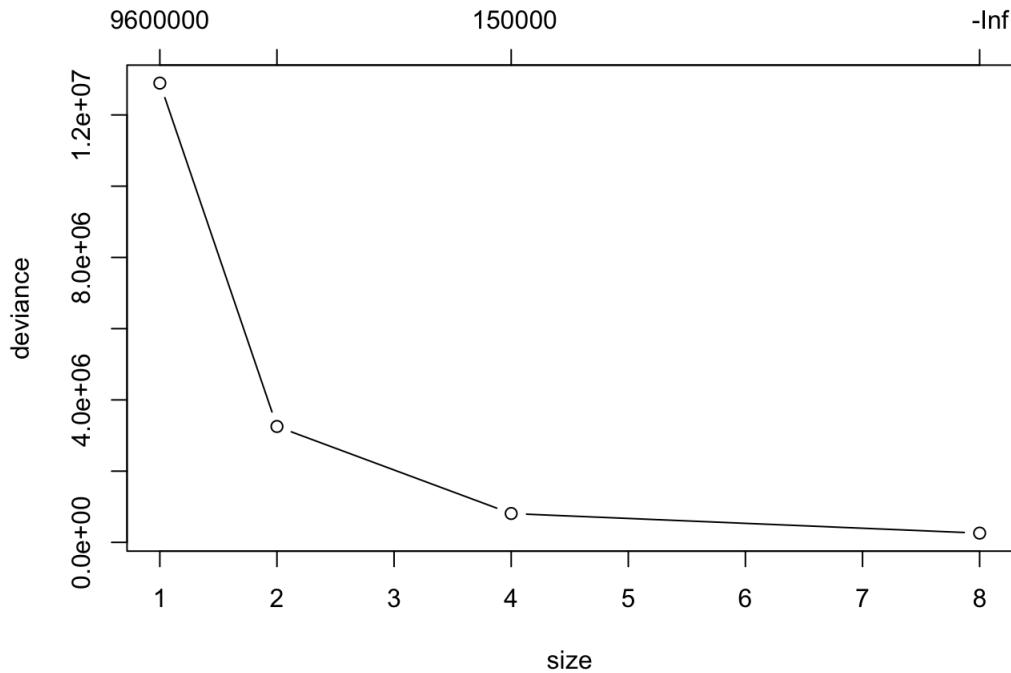
```
##
## Regression tree:
## tree(formula = Rank ~ ., data = data1)
## Variables actually used in tree construction:
## [1] "Cost.of.Living.Index"
## Number of terminal nodes:  8
## Residual mean deviance:  379.7 = 200500 / 528
## Distribution of residuals:
##      Min. 1st Qu. Median Mean 3rd Qu. Max.
## -33     -17      0     0     17    33
```

```
plot(simtree1)
text(simtree1, pretty=0)
```

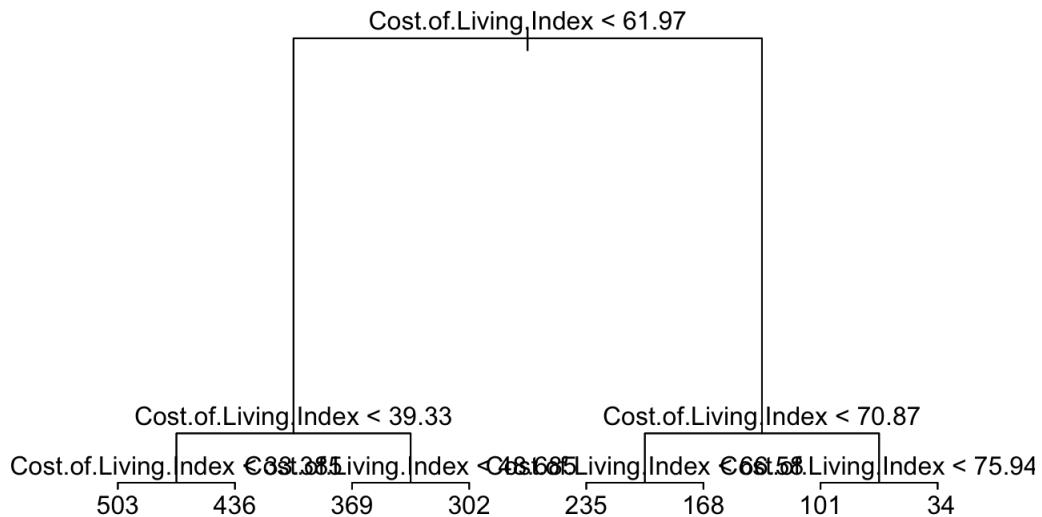


Living Index" from the Regression Tree Analysis we see that the splitting occurs with respect to the "Cost of Living Plus Rent Index". This proves that the second most significant predictor variable is indeed "Cost of Living Plus Rent Index". It also becomes evident that as the "Cost of Living Plus Rent Index" increases, the rank decreases, showing that there is a negative correlation between the two variables. This was also determined in the Multiple Linear Regression Analysis and has become solidified as a result of this analysis. Removing a predictor variable has resulted in a larger MSE of 1938 which is also expected.

```
library(tree)
cvsimtree <- cv.tree(simtree, FUN=prune.tree, K=10)
plot(cvsimtree, type="b")
```



```
newtree <- prune.tree(simtree, best=7)
plot(newtree)
text(newtree, pretty=0)
```



```
test_predict<-predict(newtree,data1)
mean((data1$Rank-test_predict)^2)
```

```
## [1] 374
```

KNN-Classification

splitting data

```
library(caret)
```

```
## Warning: package 'caret' was built under R version 3.4.4
```

```
## Loading required package: lattice
```

```
## Warning: package 'lattice' was built under R version 3.4.4
```

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

```
## Warning: package 'ggplot2' was built under R version 3.4.4
```

```
## Warning in as.POSIXlt.POSIXct(Sys.time()): unknown timezone 'zone/tz/2018i'.
## 1.0/zoneinfo/America/Vancouver'
```

```
train<-createDataPartition(y=data$Rank,p=.7,list=F)
training<-data[train,]
testing<-data[-train,]
```

10 fold cross validation repeated three times

```
control<-trainControl(method="repeatedcv",number = 10,repeats=3)
knn<-train(Rank~.,data=training,method="knn",trControl=control,preProcess=c("center","scale"),tuneLength=20)
```

```
## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19,
## uniqueCut = 10, : These variables have zero variances: CityAd Dammam,
## Saudi Arabia, CityAddis Ababa, Ethiopia, CityAhmedabad, India, CityAlbany,
## NY, United States, CityAlmaty, Kazakhstan, CityAnchorage, AK, United
## States, CityAnkara, Turkey, CityAntwerp, Belgium, CityArad, Romania,
## CityAsheville, NC, United States, CityAthens, Greece, CityAtlanta,
## GA, United States, CityAuckland, New Zealand, CityBakersfield, CA,
## United States, CityBarranquilla, Colombia, CityBelfast, United Kingdom,
## CityBellevue, WA, United States, CityBellingham, WA, United States,
## CityBergen, Norway, CityBogota, Colombia, CityBoise, ID, United States,
## CityBologna, Italy, CityBonn, Germany, CityBraga, Portugal, CityBrasov,
## Romania, CityBrighton, United Kingdom, CityBristol, United Kingdom,
## CityBrooklyn, NY, United States, CityBuffalo, NY, United States, CityBursa,
## Turkey, CityCalgary, Canada, CityCali, Colombia, CityCambridge, United
## Kingdom, CityCanberra, Australia, CityCancun, Mexico, CityCardiff, United
## Kingdom, CityChattanooga, TN, United States, CityChelyabinsk, Russia,
## CityChengdu, China, CityCluj-Napoca, Romania, CityCoimbatore, India,
## CityColombo, Sri Lanka, CityColumbus, OH, United States, CityConstanta,
## Romania, CityCopenhagen, Denmark, CityCork, Ireland, CityDar es Salaam,
## Tanzania, CityDavao, Philippines, CityDelhi, India, CityDes Moines,
## IA, United States, CityDetroit, MI, United States, CityDnipro, Ukraine,
## CityDoha, Qatar, CityDresden, Germany, CityDubai, United Arab Emirates,
## CityDublin, Ireland, CityEdinburgh, United Kingdom, CityEdmonton, Canada,
## CityEspoo, Finland, CityExeter, United Kingdom, CityFayetteville, AR,
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## Cyprus, CityVienna, Ireland, CityLondon, Portugal, CityBerlin
## Rock, AR, United States, CityLjubljana, Slovenia, CityLondon, Canada,
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## CityDUBLIN Ireland CityEdinburgh United Kingdom CityEdmonton Canada

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## Romania, CityCopenhagen, Denmark, CityCork, Ireland, CityDavao to Sarawak,
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## CityDoha, Qatar, CityDresden, Germany, CityDubai, United Arab Emirates,
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## CityKolkata, India, CityKosice, Slovakia, CityKota Kinabalu, Malaysia,
## CityKrakow (Cracow), Poland, CityLagos, Nigeria, CityLahore, Pakistan,
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## Cyprus, CityLimerick, Ireland, CityLisbon, Portugal, CityLittle
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## CityShanghai China CityShenzhen China CitySingapore Singapore

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## CitySanta Rosa, CA, United States, CitySanto Domingo, Dominican Republic,
## CityShanghai, China, CityShenzhen, China, CitySingapore, Singapore,
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## CityQueretaro, Mexico, CityQuito, Ecuador, CityReading, United Kingdom,

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## CityKrakow (Cracow) Poland CityKrasnodar Russia CityLagos Nigeria

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## Canada CityCali Colombia CityCambridge United Kingdom CityCanberra

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## CityZaragoza (Saragossa), Spain

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## CityZaragoza (Saragossa), Spain

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## Beach, VA, United States, CityVolgograd, Russia, CityWarsaw, Poland,
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## Italy, CityParamaribo, Suriname, CityParis, France, CityPerth, Australia,
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## Italy, CityParamaribo, Suriname, CityParis, France, CityPerth, Australia,
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## KS, United States, CityZaragoza (Saragossa), Spain

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## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19,
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## Saudi Arabia CityAddis Ababa Ethiopia CityAhmedabad India CityAlbania

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## Russia, CityZaragoza (Saragossa), Spain, CityZurich, Switzerland

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## Canada, CityRegina, Canada, CityRichmond, VA, United States, CityRijeka,

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## Mexico City, Ecuador, CityReading, United Kingdom, CityRed Deer

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## CityPerth, Australia, CityPeterborough, United Kingdom, CityPhiladelphia,
## PA United States CityPhuket Thailand CityPortland ME United States

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## LA, United States, CityNakas, Thailand, CityOrlando, FL, United States,
## CityPortsmouth, United Kingdom, CityPoznan, Poland, CityPrague, Czech
## Republic, CityPretoria, South Africa, CityPristina, Kosovo (Disputed
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## Croatia, CityRiyadh, Saudi Arabia, CitySaint Petersburg, Russia, CitySalem,
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## United States, CityBraga, Portugal, CityBrampton, Canada, CityBrasov,
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## United Kingdom, CityChattanooga, TN, United States, CityChelyabinsk,
## Russia, CityChengdu, China, CityChristchurch, New Zealand, CityCoimbatore,
## India, CityColombo, Sri Lanka, CityColumbus, OH, United States,
## CityCopenhagen, Denmark, CityCoquitlam, Canada, CityCuritiba, Brazil,
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## Ukraine, CityOslo, Norway, CityOstrava, Czech Republic, CityPadova,
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## CityNorwich, United Kingdom, CityNottingham, United Kingdom, CityNuremberg,
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## Belgium CityLima Col CityLisbon Portugal CityLittle Rock AR

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## City, NJ, United States, CityJohor Bahru, Malaysia, CityKarachi,
## Pakistan, CityKaunas, Lithuania, CityKazan, Russia, CityKitchener, Canada,
## CityKolkata, India, CityKosice, Slovakia, CityKota Kinabalu, Malaysia,
## CityKrakow (Cracow), Poland, CityLagos, Nigeria, CityLahore, Pakistan,
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## CityMilan, Italy, CityMilton Keynes, United Kingdom, CityMilwaukee, WI,
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## Norway, CityOstrava, Czech Republic, CityPadova, Italy, CityPalermo,
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## United Kingdom, CityChattanooga, TN, United States, CityChelyabinsk,
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## CityColumbus, OH, United States, CityCopenhagen, Denmark, CityDelhi, India,
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## India CityHaifa Israel CityHamilton Bermuda CityHamilton Canada

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## CitySan Salvador, El Salvador, CitySanta Barbara, CA, United States,
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## CitySumy, Ukraine, CitySurrey, Canada, CitySwindon, United Kingdom,
## CitySzeged, Hungary, CityTaichung, Taiwan, CityTaipei, Taiwan,
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## CityTijuana, Mexico, CityTirana, Albania, CityToledo, OH, United States,
## CityTrieste, Italy, CityUlaanbaatar, Mongolia, CityUtrecht, Netherlands,
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## States, CityZaragoza (Saragossa), Spain

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## CityCardiff, United Kingdom, CityChandigarh, India, CityChattanooga, TN,
## United States, CityChelyabinsk, Russia, CityChengdu, China, CityChicago,
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## CityColumbus, OH, United States, CityCopenhagen, Denmark, CityDelhi, India,
## CityDenver, CO, United States, CityDetroit, MI, United States, CityDhaka,
## Bangladesh, CityDnipro, Ukraine, CityDoha, Qatar, CityDresden, Germany,
## CityDubai, United Arab Emirates, CityDunedin, New Zealand, CityDusseldorf,
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## United States, CityFort Worth, TX, United States, CityFunchal, Portugal,
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## CityDubai, United Arab Emirates, CityDunedin, New Zealand, CityDusseldorf,
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## New Zealand, CityBakersfield, CA, United States, CityBanja Luka, Bosnia
## And Herzegovina, CityBarranquilla, Colombia, CityBasel, Switzerland,
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## Portugal, CityBrasov, Romania, CityBremen, Germany, CityBrighton, United
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## India, CityChattanooga, TN, United States, CityChelyabinsk, Russia,
## # CityChengdu, China, CityCoimbatore, India, CityColombo, Sri Lanka,
## # CityColumbus, OH, United States, CityCopenhagen, Denmark, CityCraiova,
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## And Herzegovina, CityBarranquilla, Colombia, CityBasel, Switzerland,
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## REPUBLIC, CITYOSLO, NORWAY, CITYPRAGUE, CZECH REPUBLIC, CITYRAUVA,
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## CityMalmo, Sweden, CityManchester, United Kingdom, CityManila, Philippines,
## CityMarseille, France, CityMedellin, Colombia, CityMilan, Italy, CityMilton
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## India, CityNewcastle, Australia, CityNice, France, CityNicosia, Cyprus,
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## CitySingapore, Singapore, CitySkopje, Macedonia, CitySplit, Croatia,
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## Ukraine, CitySurrey, Canada, CitySwindon, United Kingdom, CitySzeged,
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## CityCuenca, Ecuador, CityDarwin, Australia, CityDelhi, India, CityDenver,
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## France CityMala Maldives CityMalmo Sweden CityManila Philippines

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## Russland, CityNicosia, Canada, CityOrkana, India, CityOsice, Slovakia,
## # CityKota Kinabalu, Malaysia, CityKrakow (Cracow), Poland, CityLagos,
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## CityRijeka, Croatia, CityRiyadh, Saudi Arabia, CitySaint Petersburg,
## Russia, CitySamara, Russia, CitySan Diego, CA, United States, CitySan
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## Rosa, CA, United States, CityShanghai, China, CitySheffield, United
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## Malta, CityStuttgart, Germany, CitySumy, Ukraine, CitySurrey, Canada,
## CitySwindon, United Kingdom, CitySzczecin, Poland, CitySzeged, Hungary,
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## Netherlands, CityThessaloniki, Greece, CityTijuana, Mexico, CityToledo, OH,
## United States, CityTrieste, Italy, CityUlaanbaatar, Mongolia, CityUtrecht,
## Netherlands, CityVadodara, India, CityVancouver, Canada, CityVancouver,
## WA, United States, CityVictoria, Canada, CityVienna, Austria, CityVirginia
## Beach, VA, United States, CityVoronezh, Russia, CityWichita, KS, United
## States, CityWindhoek, Namibia, CityZaragoza (Saragossa), Spain

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## Greece, CityAtlanta, GA, United States, CityAuckland, New Zealand,
## CityBakersfield, CA, United States, CityBaku, Azerbaijan, CityBali,
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## United States, CityBergen, Norway, CityBogota, Colombia, CityBoise, ID,
## United States, CityBologna, Italy, CityBonn, Germany, CityBraga, Portugal,
## CityBrasilia, Brazil, CityBrasov, Romania, CityBrighton, United Kingdom,
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## Belgium, CityBuffalo, NY, United States, CityCalgary, Canada, CityCali,
## Colombia, CityCambridge, United Kingdom, CityCanberra, Australia,
## CityCancun, Mexico, CityCardiff, United Kingdom, CityCharleston, SC,
## United States, CityChattanooga, TN, United States, CityChelyabinsk, Russia,
## CityChengdu, China, CityChennai, India, CityCoimbatore, India, CityColombo,
## Sri Lanka, CityColumbus, OH, United States, CityCopenhagen, Denmark,

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## CityCuenca, Ecuador, CityDarwin, Australia, CityDelhi, India, CityDenver,
## CO, United States, CityDetroit, MI, United States, CityDnipro, Ukraine,
## CityDoha, Qatar, CityDresden, Germany, CityDubai, United Arab Emirates,
## CityDunedin, New Zealand, CityEdinburgh, United Kingdom, CityEspoo,
## Finland, CityExeter, United Kingdom, CityFayetteville, AR, United States,
## CityFort Wayne, IN, United States, CityFrankfurt, Germany, CityFunchal,
## Portugal, CityGdansk, Poland, CityGdynia, Poland, CityGlasgow, United
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## CityChengdu, China, CityChennai, India, CityCoimbatore, India, CityColombo

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## Colombia CityCambridge United Kingdom CityCanberra Australia

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## Colombia, CityCanberra, United Kingdom, CityCanberra, Australia,
## CityCancun, Mexico, CityCardiff, United Kingdom, CityChattanooga, TN,
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## Moldova, CityCluj-Napoca, Romania, CityCoimbatore, India, CityColombo,
## Sri Lanka, CityColumbus, OH, United States, CityConstanta, Romania,
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## Taiwan, CityTallahassee, FL, United States, CityThane, India, CityThe Hague
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## Australia, CityHuntsville, AL, United States, CityIndore, India,
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## United Kingdom, CityOdense, Denmark, CityOshawa, Canada, CityOsijek,
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## Italy, CityPalermo, Italy, CityParamaribo, Suriname, CityParis, France,
## CityPerth, Australia, CityPhiladelphia, PA, United States, CityPhuket,
## Thailand, CityPortland, ME, United States, CityPortsmouth, United Kingdom,
## CityPoznan, Poland, CityPrague, Czech Republic, CityPristina, Kosovo
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## Warning: in preProcess default thresh = 0.95  v = 5  freqCut = 10

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## CityCancun, Mexico, CityCardiff, United Kingdom, CityChattanooga, TN,
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## Moldova, CityCluj-Napoca, Romania, CityCoimbatore, India, CityColombo,
## Sri Lanka, CityColumbus, OH, United States, CityConstanta, Romania,
## CityCopenhagen, Denmark, CityDelhi, India, CityDetroit, MI, United States,
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## CityEspoo, Finland, CityExeter, United Kingdom, CityFayetteville,
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## KS, United States, CityZaragoza (Saragossa), Spain, CityZurich, Switzerland
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## uniqueCut = 10, : These variables have zero variances: CityAccra, Ghana,
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## KS, United States, CityZaragoza (Saragossa), Spain, CityZurich, Switzerland

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## CityVancouver, WA, United States, CityVarna, Bulgaria, CityVienna, Austria,
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## Czech Republic, CityPristina, Kosovo (Disputed Territory), CityPune

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## United States, CityMississauga, Canada, CityMoncton, Canada, CityMonterrey,
## Mexico CityNanaimo BC Canada CityNaples Italy CityNavi Mumbai

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## CityHuntsville, AL, United States, CityIasi, Romania, CityIndore, India,
## CityJeddah (Tiddah) Saudi Arabia, CityKeswick City, N.T. United States

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## CityLyon, France, CityMale, Maldives, CityMalmo, Sweden, CityManila,
## Philippines, CityMarseille, France, CityMedellin, Colombia, CityMilan,
## Italy, CityMilton Keynes, United Kingdom, CityMilwaukee, WI, United
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## CityMoscow, Russia, CityMumbai, India, CityMysore, India, CityNagpur,
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## India, CityNewcastle, Australia, CityNice, France, CityNicosia, Cyprus,
## CityNizhny Novgorod, Russia, CityNorwich, United Kingdom, CityNottingham,
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## CityOlympia, WA, United States, CityOsaka, Japan, CityOslo, Norway,
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## CityPalma de Mallorca, Spain, CityParamaribo, Suriname, CityParis, France,
## CityPerth, Australia, CityPhiladelphia, PA, United States, CityPhuket,
## Thailand, CityPortland, ME, United States, CityPortsmouth, United Kingdom,
## CityPoznan, Poland, CityPrague, Czech Republic, CityPristina, Kosovo
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## Ecuador, CityReading, United Kingdom, CityRegina, Canada, CityRichmond,
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## CitySao Paulo, Brazil, CityShanghai, China, CitySingapore, Singapore,
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## Poland, CityWest Palm Beach, FL, United States, CityWichita, KS, United
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## India, CityAlbany, NY, United States, CityAlmaty, Kazakhstan,
## CityAnchorage AK United States, CityAnkara Turkey, CityAnn Arbor MT

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## CityBangalore, India, CityBarranquilla, Colombia, CityBelfast, United
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## CityHuntsville, AL, United States, CityIndore, India, CityInnsbruck,
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## Lithuania, CityKazan, Russia, CityKitchener, Canada, CityKolkata, India,
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## = 10, : These variables have zero variances: CityAbbotsford, Canada,

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## Austria, CityJersey City, NJ, United States, CityJohannesburg, South
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## Warning: In preProcess default (thresh = 0.95, v = 5, freqCut = 10, uniqueCut
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warning in predictprocess: nclust(cities) = 0.0, k = 0, nrepeat = 10, uniqueclus
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## Tbilisi, CityParamaribo, Suriname, CityParis, France, CityPerth, Australia

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## CityBraga, Portugal, CityBrasov, Romania, CityBrighton, United Kingdom,
## CityBrooklyn, NY, United States, CityBuffalo, NY, United States,
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## City Guatemala, CityGwadar, India, CityHamburg, Germany, CityHamilton

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## City, Guatemala, CityGuwahati, India, CityHamburg, Germany, CityHamilton,
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## United States, CityVienna, Austria, CityVirginia Beach, VA, United States,
## CityVoronezh, Russia, CityWichita, KS, United States, CityWroclaw, Poland,
## CityZaragoza (Saragossa), Spain

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## CityEdinburgh, United Kingdom, CityEindhoven, Netherlands, CityEl Paso,
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## City

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## United Kingdom, CityGranada, Spain, CityGraz, Austria, CityGreensboro,
## NC, United States, CityGroningen, Netherlands, CityGuadalajara, Mexico,
## CityGuangzhou, China, CityGuatemala City, Guatemala, CityGuwahati,
## India, CityHamilton, Bermuda, CityHamilton, Canada, CityHanoi, Vietnam,
## CityHanover, Germany, CityHartford, CT, United States, CityHavana, Cuba,
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## India, CityJersey City, NJ, United States, CityJohor Bahru, Malaysia,
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## CityMalmo, Sweden, CityManila, Philippines, CityMarseille, France,
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## Singapore, CityStuttgart, Germany, CitySumy, Ukraine, CitySurabaya,
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## # CityFayetteville, AR, United States, CityFort Wayne, IN, United States,
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## Colombia, CityMelbourne, Australia, CityMilan, Italy, CityMilton
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## India, CityNewcastle, Australia, CityNice, France, CityNicosia, Cyprus,
## CityNizhny Novgorod, Russia, CityNorwich, United Kingdom, CityNottingham,
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## CityStuttgart, Germany, CitySumy, Ukraine, CitySurrey, Canada, CitySwindon,

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## United States, CityVienna, Austria, CityVirginia Beach, VA, United States,
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## States, CityZaragoza (Saragossa), Spain

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## CityPoznan, Poland, CityPrague, Czech Republic, CityPristina, Kosovo
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## City, Philippines, CityQuito, Ecuador, CityReading, United Kingdom,
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## CityPoznan, Poland, CityPrague, Czech Republic, CityPristina, Kosovo
## (Disputed Territory) CityPune, India, CityQuerétaro, Mexico, CityQuerétaro

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## Disputed territory, CityIrvine, India, CityQueretaro, Mexico, CityVancouver
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## Bulgaria, CityPortland, ME, United States, CityPortsmouth, United Kingdom,
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## # Kingdom, CitySzeged, Hungary, CityTaichung, Taiwan, CityTaipei, Taiwan,
## # CityTallahassee, FL, United States, CityTampere, Finland, CityTel Aviv-
## # Yafo, Israel, CityThe Hague (Den Haag), Netherlands, CityThessaloniki,
## # Greece, CityTijuana, Mexico, CityToledo, OH, United States, CityToronto,
## # Canada, CityTrieste, Italy, CityUlaanbaatar, Mongolia, CityUtrecht,
## # Netherlands, CityVadodara, India, CityVancouver, WA, United States,
## # CityVienna, Austria, CityVirginia Beach, VA, United States, CityVoronezh,
## # Russia, CityWichita, KS, United States, CityZaragoza (Saragossa), Spain

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## CityAnkara, Turkey, CityAntwerp, Belgium, CityAsheville, NC, United States,
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## States, CityBarranquilla, Colombia, CityBeijing, China, CityBelfast,
## United Kingdom, CityBellevue, WA, United States, CityBellingham, WA,
## United States, CityBergen, Norway, CityBogota, Colombia, CityBoise,
## ID, United States, CityBologna, Italy, CityBonn, Germany, CityBordeaux,
## France, CityBraga, Portugal, CityBrasov, Romania, CityBrighton, United
## Kingdom, CityBrooklyn, NY, United States, CityBuffalo, NY, United
## States, CityBydgoszcz, Poland, CityCalgary, Canada, CityCali, Colombia,
## CityCambridge, United Kingdom, CityCanberra, Australia, CityCancun,
## Mexico, CityCape Town, South Africa, CityCardiff, United Kingdom,
## CityChattanooga, TN, United States, CityChelyabinsk, Russia, CityChengdu,
## China, CityChiang Mai, Thailand, CityChicago, IL, United States,
## CityCoimbatore, India, CityColombo, Sri Lanka, CityColumbus, OH, United
## States, CityCopenhagen, Denmark, CityCuritiba, Brazil, CityDelhi, India,
## CityDerby, United Kingdom, CityDes Moines, IA, United States, CityDetroit,
## MI, United States, CityDnipro, Ukraine, CityDoha, Qatar, CityDresden,
## Germany, CityDubai, United Arab Emirates, CityEdinburgh, United Kingdom,
## CityEspoo, Finland, CityExeter, United Kingdom, CityFayetteville, AR,
## United States, CityFort Wayne, IN, United States, CityFunchal, Portugal,
## CityGdansk, Poland, CityGdynia, Poland, CityGlasgow, United Kingdom,
## CityGoa, India, CityGold Coast, Australia, CityGranada, Spain, CityGraz,
## Austria, CityGroningen, Netherlands, CityGuangzhou, China, CityGuatemala
## # City, Guatemala, CityGuwahati, India, CityHamilton, Bermuda, CityHamilton,
## # Canada, CityHanoi, Vietnam, CityHartford, CT, United States, CityHobart,
## # Australia, CityHouston, TX, United States, CityHuntsville, AL, United
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## # City, NJ, United States, CityJerusalem, Israel, CityJohor Bahru, Malaysia,
## # CityKansas City, MO, United States, CityKarachi, Pakistan, CityKaunas,
## Lithuania, CityKazan, Russia, CityKitchener, Canada, CityKolkata, India,
## # CityKosice, Slovakia, CityKota Kinabalu, Malaysia, CityKrakow (Cracow),
## # Poland, CityKuching, Malaysia, CityLagos, Nigeria, CityLahore, Pakistan,
## # CityLas Vegas, NV, United States, CityLeuven, Belgium, CityLille, France,
## # CityLimassol, Cyprus, CityLisbon, Portugal, CityLittle Rock, AR, United

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## States, CityLjubljana, Slovenia, CityLondon, Canada, CityLouisville,
## KY, United States, CityLucknow (Lakhnau), India, CityLudhiana, India,
## CityLuxembourg, Luxembourg, CityLyon, France, CityMaastricht, Netherlands,
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## CityManila, Philippines, CityMarseille, France, CityMedellin, Colombia,
## CityMilan, Italy, CityMilton Keynes, United Kingdom, CityMilwaukee, WI,
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## Australia, CityNice, France, CityNicosia, Cyprus, CityNizhny Novgorod,
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## Mexico, CityCape Town, South Africa, CityCardiff, United Kingdom,
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## CityLas Vegas, NV, United States, CityLeuven, Belgium, CityLille, France,

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## CityBonn, Germany, CityBoston, MA, United States, CityBraga, Portugal,
## CityBrasov, Romania, CityBrighton, United Kingdom, CityBrooklyn, NY,
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## CityBuffalo, NY, United States, CityCalgary, Canada, CityCali, Colombia,
## CityCambridge, United Kingdom, CityCanberra, Australia, CityCancun,
## Mexico, CityCardiff, United Kingdom, CityChattanooga, TN, United
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## Romania, CityCoimbatore, India, CityColombo, Sri Lanka, CityColumbus,
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## United Kingdom, CityDetroit, MI, United States, CityDnipro, Ukraine,
## CityDoha, Qatar, CityDresden, Germany, CityDubai, United Arab Emirates,
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## Wayne, IN, United States, CityFunchal, Portugal, CityGdansk, Poland,
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## CityKosice, Slovakia, CityKota Kinabalu, Malaysia, CityKrakow (Cracow),

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## Poland, CityLagos, Nigeria, CityLahore, Pakistan, CityLas Vegas, NV,
## United States, CityLeuven, Belgium, CityLimassol, Cyprus, CityLisbon,
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## CitySan Jose, Costa Rica, CitySanta Barbara, CA, United States, CitySanto
## Domingo, Dominican Republic, CitySao Paulo, Brazil, CityShanghai, China,
## CitySharjah, United Arab Emirates, CitySingapore, Singapore, CityStuttgart,
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## States, CityTrieste, Italy, CityTrondheim, Norway, CityTucson, AZ, United
## States, CityUlaanbaatar, Mongolia, CityUppsala, Sweden, CityUtrecht,
## Netherlands, CityVadodara, India, CityVancouver, WA, United States,
## CityVienna, Austria, CityVirginia Beach, VA, United States, CityVoronezh,
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## CityYerevan, Armenia, CityZaragoza (Saragossa), Spain

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## United States, CityBaku, Azerbaijan, CityBaltimore, MD, United States,
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## BiHudan, CityKazan, Russia, CityKitchener, Canada, CityKuala, India,
## # CityKosice, Slovakia, CityKota Kinabalu, Malaysia, CityKrakow (Cracow),
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## States, CityTrieste, Italy, CityTrondheim, Norway, CityTucson, AZ, United
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## Netherlands, CityVadodara, India, CityVancouver, WA, United States,
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## CityBuffalo, NY, United States, CityCalgary, Canada, CityCali, Colombia

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## CityExeter, United Kingdom, CityFayetteville, AR, United States, CityFort
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## United States, CityJacksonville, FL, United States, CityJersey City,
## NJ, United States, CityJohor Bahru, Malaysia, CityKarachi, Pakistan,
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## Russia, CityNorwich, United Kingdom, CityNottingham, United Kingdom,
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## Italy, CityPalermo, Italy, CityParamaribo, Suriname, CityParis, France,
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## Thailand, CityPittsburgh, PA, United States, CityPlymouth, United
## Kingdom, CityPortland, ME, United States, CityPortsmouth, United Kingdom,
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## Warning: in preProcess default thresh = 0.95  v = 5  freqCut = 10

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## China, CityCoimbatore, India, CityColombo, Sri Lanka, CityColumbus, OH,
## United States, CityCopenhagen, Denmark, CityCork, Ireland, CityDar es
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## CityWichita, KS, United States, CityZaragoza (Saragossa), Spain
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## CityWichita, KS, United States, CityZaragoza (Saragossa), Spain

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## Spain CityShanghai China CityShenzhen China CitySingapore Singapore

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## Italy, CityUlaanbaatar, Mongolia, CityUtrecht, Netherlands, CityVadodara,
## India, CityVancouver, WA, United States, CityVienna, Austria, CityVirginia
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## CityWichita, KS, United States, CityZaragoza (Saragossa), Spain

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## AK, United States, CityAnkara, Turkey, CityAntwerp, Belgium, CityAsheville,
## NC, United States, CityAthens, Greece, CityAtlanta, GA, United
## States, CityAuckland, New Zealand, CityBakersfield, CA, United States,
## CityBarranquilla, Colombia, CityBelfast, United Kingdom, CityBellevue,
## WA, United States, CityBellingham, WA, United States, CityBergen, Norway,
## CityBogota, Colombia, CityBoise, ID, United States, CityBologna, Italy,
## CityBonn, Germany, CityBraga, Portugal, CityBrasov, Romania, CityBrighton,
## United Kingdom, CityBrooklyn, NY, United States, CityBrussels, Belgium,
## CityBuffalo, NY, United States, CityBursa, Turkey, CityCalgary, Canada,
## CityCali, Colombia, CityCambridge, United Kingdom, CityCanberra, Australia,
## CityCancun, Mexico, CityCardiff, United Kingdom, CityCasablanca, Morocco,
## CityChattanooga, TN, United States, CityChelyabinsk, Russia, CityChengdu,
## China, CityCoimbatore, India, CityColombo, Sri Lanka, CityColumbus, OH,
## United States, CityCopenhagen, Denmark, CityCork, Ireland, CityDar es
## Salaam, Tanzania, CityDavao, Philippines, CityDayton, OH, United States,
## CityDebrecen, Hungary, CityDelhi, India, CityDetroit, MI, United States,
## CityDnipro, Ukraine, CityDoha, Qatar, CityDresden, Germany, CityDubai,
## United Arab Emirates, CityEdinburgh, United Kingdom, CityEspoo, Finland,
## CityExeter, United Kingdom, CityFayetteville, AR, United States, CityFort
## Wayne, IN, United States, CityFunchal, Portugal, CityGdansk, Poland,
## CityGdynia, Poland, CityGlasgow, United Kingdom, CityGranada, Spain,
## CityGraz, Austria, CityGroningen, Netherlands, CityGuangzhou, China,
## CityGuatemala City, Guatemala, CityGuayaquil, Ecuador, CityGuwahati,
## India, CityHamilton, Bermuda, CityHamilton, Canada, CityHanoi, Vietnam,
## CityHartford, CT, United States, CityHeidelberg, Germany, CityHobart,
## Australia, CityHuntsville, AL, United States, CityHyderabad, India,
## CityIndianapolis, IN, United States, CityIndore, India, CityIrvine, CA,
## United States, CityJacksonville, FL, United States, CityJersey City,
## NJ, United States, CityJohor Bahru, Malaysia, CityKarachi, Pakistan,
## CityKaunas, Lithuania, CityKazan, Russia, CityKingston, Jamaica,
## CityKitchener, Canada, CityKolkata, India, CityKosice, Slovakia,
## CityKota Kinabalu, Malaysia, CityKrakow (Cracow), Poland, CityLagos,
## Nigeria, CityLahore, Pakistan, CityLarnaca, Cyprus, CityLas Vegas, NV,
## United States, CityLeuven, Belgium, CityLimassol, Cyprus, CityLimerick,
## Ireland, CityLisbon, Portugal, CityLittle Rock, AR, United States,
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## Italy, CityPalermo, Italy, CityParamaribo, Suriname, CityParis, France,
## CityPerth, Australia, CityPhiladelphia, PA, United States, CityPhuket,
## Thailand, CityPittsburgh, PA, United States, CityPlymouth, United
## Kingdom, CityPortland, ME, United States, CityPortsmouth, United Kingdom,
## CityPoznan, Poland, CityPrague, Czech Republic, CityPristina, Kosovo

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## (Disputed Territory), CityPuebla, Mexico, CityPune, India, CityQueretaro,
## Mexico, CityQuito, Ecuador, CityRabat, Morocco, CityReading, United
## Kingdom, CityRegina, Canada, CityRichmond, VA, United States, CityRijeka,
## Croatia, CityRiyadh, Saudi Arabia, CityRotterdam, Netherlands, CitySaint
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## United States, CitySanta Barbara, CA, United States, CitySeville (Sevilla),
## Spain, CityShanghai, China, CityShenzhen, China, CitySingapore, Singapore,
## CitySplit, Croatia, CityStuttgart, Germany, CitySumy, Ukraine, CitySurrey,
## Canada, CitySwindon, United Kingdom, CitySzeged, Hungary, CityTacoma, WA,
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## Romania, CityCopenhagen, Denmark, CityDelhi, India, CityDetroit, MI,
## United States, CityDnipro, Ukraine, CityDoha, Qatar, CityDresden,
## Germany, CityDubai, United Arab Emirates, CityDusseldorf, Germany,
## CityEdinburgh, United Kingdom, CityEindhoven, Netherlands, CityEspoo,
## Finland, CityEugene, OR, United States, CityExeter, United Kingdom,
## CityFayetteville, AR, United States, CityFort Wayne, IN, United States,
## CityFunchal, Portugal, CityGdansk, Poland, CityGdynia, Poland, CityGlasgow,
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## City, Guatemala, CityGuwahati, India, CityHamilton, Bermuda, CityHamilton,
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## Australia, CityHuntsville, AL, United States, CityIndore, India, CityJersey
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## CityKazan, Russia, CityKitchener, Canada, CityKnoxville, TN, United States,
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## CityPortland, Oregon, United States

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## ME, United States, CityPortsmouth, United Kingdom, CityPoznan, Poland,
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## France, CityPerth, Australia, CityPhiladelphia, PA, United States,
## CityPhuket Thailand CityPort of Spain Trinidad And Tobago CityPortland

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## CityBarcelona, Thailand, CityBordeaux, Spain, CityBuenos Aires, Argentina, CityCopenhagen,
## ME, United States, CityPortsmouth, United Kingdom, CityPoznan, Poland,
## CityPrague, Czech Republic, CityPristina, Kosovo (Disputed Territory),
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## CA, United States, CitySanta Barbara, CA, United States, CityShanghai,
## China, CitySibiu, Romania, CitySingapore, Singapore, CitySouthampton,
## United Kingdom, CitySpokane, WA, United States, CityStrasbourg, France,
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## Mongolia, CityUtrecht, Netherlands, CityVadodara, India, CityVancouver,
## Canada, CityVancouver, WA, United States, CityVienna, Austria, CityVirginia
## Beach, VA, United States, CityVoronezh, Russia, CityWichita, KS, United
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## Greece, CityAtlanta, GA, United States, CityAuckland, New Zealand,
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## Romania, CityCopenhagen, Denmark, CityDelhi, India, CityDetroit, MI,
## United States, CityDnipro, Ukraine, CityDoha, Qatar, CityDresden,
## Germany, CityDubai, United Arab Emirates, CityDusseldorf, Germany,
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## CityPhuket, Thailand, CityPort of Spain, Trinidad And Tobago, CityPortland,
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## CityKochi, India, CityKolkata, India, CityKosice, Slovakia, CityKota
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## CityLahore, Pakistan, CityLas Vegas, NV, United States, CityLeuven,
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## Russia, CityNorwich, United Kingdom, CityNottingham, United Kingdom,
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## CityPadova, Italy, CityPalermo, Italy, CityParamaribo, Suriname, CityParis,
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## Canada, CityMonterrey, Mexico, CityMontpellier, France, CityNanaimo,
## BC Canada CityNaples Italy CityNavi Mumbai India CityNewcastle

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## CityNanaimo BC Canada CityNaples Italy CityNavi Mumbai India

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## CityNanaimo, BC, Canada, CityNaples, Italy, CityNavi Mumbai, India,
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## Russia, CityNorwich, United Kingdom, CityNottingham, United Kingdom,
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## REPUBLIC, CITYFAUOVA, ITALY, CITYFALEIMO, ITALY, CITYFALAMALDO, SURINAME,
## CityParis, France, CityPerth, Australia, CityPhiladelphia, PA, United
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## United Kingdom, CityRed Deer, Canada, CityRegina, Canada, CityRichmond,
## VA, United States, CityRijeka, Croatia, CityRiyadh, Saudi Arabia, CitySaint
## Petersburg, Russia, CitySan Diego, CA, United States, CitySanta Barbara,
## CA, United States, CitySanta Cruz de Tenerife, Spain, CityShanghai, China,
## CitySingapore, Singapore, CitySt. John's, NL, Canada, CityStuttgart,
## Germany, CitySumy, Ukraine, CitySurrey, Canada, CitySuzhou, China,
## CitySwindon, United Kingdom, CitySzeged, Hungary, CityTaichung, Taiwan,
## CityTaipei, Taiwan, CityTallahassee, FL, United States, CityThe Hague
## (Den Haag), Netherlands, CityThessaloniki, Greece, CityTijuana, Mexico,
## CityToledo, OH, United States, CityToronto, Canada, CityTrieste, Italy,
## CityUlaanbaatar, Mongolia, CityUtrecht, Netherlands, CityVadodara, India,
## CityVancouver, WA, United States, CityVienna, Austria, CityVirginia
## Beach, VA, United States, CityVoronezh, Russia, CityWarsaw, Poland,
## CityWashington, DC, United States, CityWichita, KS, United States,
## CityYork, United Kingdom, CityZaragoza (Saragossa), Spain

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## CityAlmaty, Kazakhstan, CityAmsterdam, Netherlands, CityAnchorage, AK,
## United States, CityAnkara, Turkey, CityAnn Arbor, MI, United States,
## CityAntwerp, Belgium, CityArad, Romania, CityAsheville, NC, United
## States, CityAthens, Greece, CityAtlanta, GA, United States, CityAuckland,
## New Zealand, CityBakersfield, CA, United States, CityBangkok, Thailand,
## CityBarranquilla, Colombia, CityBasel, Switzerland, CityBeijing,

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## China, CityBelfast, United Kingdom, CityBellevue, WA, United States,
## CityBellingham, WA, United States, CityBelo Horizonte, Brazil, CityBergen,
## Norway, CityBogota, Colombia, CityBoise, ID, United States, CityBologna,
## Italy, CityBonn, Germany, CityBraga, Portugal, CityBrasilia, Brazil,
## CityBrasov, Romania, CityBrighton, United Kingdom, CityBrooklyn, NY, United
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## Canada, CityCali, Colombia, CityCambridge, United Kingdom, CityCanberra,
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## United Kingdom, CityChattanooga, TN, United States, CityChelyabinsk,
## Russia, CityChengdu, China, CityCoimbatore, India, CityCoimbra, Portugal,
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## Denmark, CityDelhi, India, CityDetroit, MI, United States, CityDnipro,
## Ukraine, CityDoha, Qatar, CityDresden, Germany, CityDubai, United Arab
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## United Kingdom, CityFayetteville, AR, United States, CityFlorianopolis,
## Brazil, CityFort Wayne, IN, United States, CityFrankfurt, Germany,
## CityFunchal, Portugal, CityGalway, Ireland, CityGdansk, Poland,
## CityGdynia, Poland, CityGent, Belgium, CityGlasgow, United Kingdom,
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## AL, United States, CityIndore, India, CityIzmir, Turkey, CityJakarta,
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## New Zealand, CityBakersfield, CA, United States, CityBangkok, Thailand,
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## Stales, CityAthens, Greece, CityAtlanta, GA, United States, CityAuckland,
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## Czech Republic, CityPristina, Kosovo (Disputed Territory), CityPune, India,
## CityQuito, Ecuador, CityQuito, Ecuador, CityQuito, Ecuador, United Kingdom
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## CityJersey City, NJ, United States, CityJohor Bahru, Malaysia, CityKarachi,
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## Austria, CityVilnius, Lithuania, CityVirginia Beach, VA, United States,
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## Namibia, CityYekaterinburg, Russia, CityZaragoza (Saragossa), Spain

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## CityLouisville, KY, United States, CityLudhiana, India, CityLuxembourg,
## Luxembourg, CityLyon, France, CityMale, Maldives, CityMalmo, Sweden,
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## United Kingdom, CityOdense, Denmark, CityOslo, Norway, CityOstrava,
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## Begawan, Brunei, CityBarranquilla, Colombia, CityBelfast, United Kingdom,
## CityBellevue, WA, United States, CityBellingham, WA, United States,
## CityBergen, Norway, CityBogota, Colombia, CityBoise, ID, United States,
## CityBologna, Italy, CityBonn, Germany, CityBraga, Portugal, CityBrasov,
## Romania, CityBratislava, Slovakia, CityBremen, Germany, CityBrighton,
## United Kingdom, CityBrooklyn, NY, United States, CityBudapest, Hungary,
## CityBuffalo, NY, United States, CityCalgary, Canada, CityCali, Colombia,
## CityCambridge, United Kingdom, CityCanberra, Australia, CityCancun, Mexico,
## CityCardiff, United Kingdom, CityCebu, Philippines, CityChattanooga, TN,
## United States, CityChelyabinsk, Russia, CityChengdu, China, CityChiang
## Mai, Thailand, CityChicago, IL, United States, CityCincinnati, OH, United
## States, CityCoimbatore, India, CityColombo, Sri Lanka, CityColumbus, OH,
## United States, CityCopenhagen, Denmark, CityDelhi, India, CityDetroit, MI,
## United States, CityDhaka, Bangladesh, CityDnipro, Ukraine, CityDoha, Qatar,
## CityDresden, Germany, CityDubai, United Arab Emirates, CityEdinburgh,
## United Kingdom, CityEdmonton, Canada, CityEspoo, Finland, CityExeter,
## United Kingdom, CityFayetteville, AR, United States, CityFort Wayne, IN,
## United States, CityFort Worth, TX, United States, CityFunchal, Portugal,
## CityGdansk, Poland, CityGdynia, Poland, CityGlasgow, United Kingdom,
## CityGranada, Spain, CityGraz, Austria, CityGroningen, Netherlands,
## CityGuangzhou, China, CityGuatemala City, Guatemala, CityGurgaon,
## India, CityGuwahati, India, CityHamburg, Germany, CityHamilton, Bermuda,
## CityHamilton, Canada, CityHanoi, Vietnam, CityHartford, CT, United States,
## CityHobart, Australia, CityHong Kong, Hong Kong, CityHuntsville, AL, United
## States, CityIndore, India, CityIstanbul, Turkey, CityJersey City, NJ,
## United States, CityJohor Bahru, Malaysia, CityKampala, Uganda, CityKansas
## City, MO, United States, CityKarachi, Pakistan, CityKaunas, Lithuania,
## CityKazan, Russia, CityKitchener, Canada, CityKolkata, India, CityKosice,
## Slovakia, CityKota Kinabalu, Malaysia, CityKrakow (Cracow), Poland,
## CityKuching, Malaysia, CityLagos, Nigeria, CityLahore, Pakistan, CityLas
## Vegas, NV, United States, CityLeicester, United Kingdom, CityLeuven,
## Belgium, CityLexington, KY, United States, CityLimassol, Cyprus,
## CityLisbon, Portugal, CityLittle Rock, AR, United States, CityLjubljana,
## Slovenia, CityLondon, Canada, CityLos Angeles, CA, United States,
## CityLouisville, KY, United States, CityLudhiana, India, CityLuxembourg,
## Luxembourg, CityLyon, France, CityMale, Maldives, CityMalmo, Sweden,
## CityManila, Philippines, CityMarseille, France, CityMedellin, Colombia,
## CityMilan, Italy, CityMilton Keynes, United Kingdom, CityMilwaukee,
## WI, United States, CityMinneapolis, MN, United States, CityMonterrey,
## Mexico, CityNanaimo, BC, Canada, CityNaples, Italy, CityNavi Mumbai,
## India, CityNewcastle, Australia, CityNice, France, CityNicosia, Cyprus,
## CityNizhny Novgorod, Russia, CityNorwich, United Kingdom, CityNottingham,
## United Kingdom, CityOdense, Denmark, CityOslo, Norway, CityOstrava,
## Czech Republic, CityPadova, Italy, CityPalermo, Italy, CityParamaribo,
## Suriname, CityParis, France, CityPerth, Australia, CityPhiladelphia, PA,
## United States, CityPhuket, Thailand, CityPortland, ME, United States,
## CityPortsmouth, United Kingdom, CityPoznan, Poland, CityPrague, Czech
## Republic, CityPristina, Kosovo (Disputed Territory), CityPune, India,
## CityQueretaro, Mexico, CityQuito, Ecuador, CityRaddington, United Kingdom

```

```
## CityQueretaro, Mexico, CityQuito, Ecuador, CityReading, United Kingdom,  
## CityRegina, Canada, CityRichmond, VA, United States, CityRijeka, Croatia,  
## CityRiyadh, Saudi Arabia, CityRostov-na-donu, Russia, CitySaint Louis,  
## MO, United States, CitySaint Petersburg, FL, United States, CitySaint  
## Petersburg, Russia, CitySan Antonio, TX, United States, CitySan Diego, CA,  
## United States, CitySan Francisco, CA, United States, CitySanta Barbara,  
## CA, United States, CitySantiago, Chile, CitySelangor, Malaysia, CitySeoul,  
## South Korea, CityShanghai, China, CitySingapore, Singapore, CityStuttgart,  
## Germany, CitySumy, Ukraine, CitySurabaya, Indonesia, CitySurrey, Canada,  
## CitySwindon, United Kingdom, CitySzeged, Hungary, CityTaichung, Taiwan,  
## CityTaipei, Taiwan, CityTallahassee, FL, United States, CityTehran,  
## Iran, CityThe Hague (Den Haag), Netherlands, CityThessaloniki, Greece,  
## CityTijuana, Mexico, CityTimisoara, Romania, CityTokyo, Japan, CityToledo,  
## OH, United States, CityTrieste, Italy, CityUlaanbaatar, Mongolia,  
## CityUtrecht, Netherlands, CityVadodara, India, CityVancouver, WA, United  
## States, CityVienna, Austria, CityVirginia Beach, VA, United States,  
## CityVoronezh, Russia, CityWichita, KS, United States, CityZaragoza  
## (Saragossa), Spain
```

```

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19,
## uniqueCut = 10, : These variables have zero variances: CityAd Dammam, Saudi
## Arabia, CityAddis Ababa, Ethiopia, CityAhmedabad, India, CityAlbany, NY,
## United States, CityAlmaty, Kazakhstan, CityAnchorage, AK, United States,
## CityAnkara, Turkey, CityAntwerp, Belgium, CityAsheville, NC, United
## States, CityAthens, Greece, CityAtlanta, GA, United States, CityAuckland,
## New Zealand, CityBakersfield, CA, United States, CityBarranquilla,
## Colombia, CityBelfast, United Kingdom, CityBellevue, WA, United States,
## CityBellingham, WA, United States, CityBergen, Norway, CityBogota,
## Colombia, CityBoise, ID, United States, CityBologna, Italy, CityBonn,
## Germany, CityBraga, Portugal, CityBrasov, Romania, CityBrighton, United
## Kingdom, CityBrooklyn, NY, United States, CityBuffalo, NY, United States,
## CityCalgary, Canada, CityCali, Colombia, CityCambridge, United Kingdom,
## CityCanberra, Australia, CityCancun, Mexico, CityCardiff, United Kingdom,
## CityChattanooga, TN, United States, CityChelyabinsk, Russia, CityChengdu,
## China, CityCoimbatore, India, CityColombo, Sri Lanka, CityColumbus, OH,
## United States, CityCopenhagen, Denmark, CityDelhi, India, CityDetroit,
## MI, United States, CityDnipro, Ukraine, CityDoha, Qatar, CityDresden,
## Germany, CityDubai, United Arab Emirates, CityEdinburgh, United Kingdom,
## CityEspoo, Finland, CityExeter, United Kingdom, CityFayetteville, AR,
## United States, CityFort Wayne, IN, United States, CityFunchal, Portugal,
## CityGdansk, Poland, CityGdynia, Poland, CityGlasgow, United Kingdom,
## CityGranada, Spain, CityGraz, Austria, CityGroningen, Netherlands,
## CityGuangzhou, China, CityGuatemala City, Guatemala, CityGuwahati,
## India, CityHamilton, Bermuda, CityHamilton, Canada, CityHanoi, Vietnam,
## CityHartford, CT, United States, CityHobart, Australia, CityHuntsville,
## AL, United States, CityIndore, India, CityJersey City, NJ, United States,
## CityJohor Bahru, Malaysia, CityKarachi, Pakistan, CityKaunas, Lithuania,
## CityKazan, Russia, CityKitchener, Canada, CityKolkata, India, CityKosice,
## Slovakia, CityKota Kinabalu, Malaysia, CityKrakow (Cracow), Poland,
## CityLagos, Nigeria, CityLahore, Pakistan, CityLas Vegas, NV, United States,
## CityLeuven, Belgium, CityLimassol, Cyprus, CityLisbon, Portugal, CityLittle
## Rock, AR, United States, CityLjubljana, Slovenia, CityLondon, Canada,
## CityLouisville, KY, United States, CityLudhiana, India, CityLuxembourg,
## Luxembourg, CityLyon, France, CityMale, Maldives, CityMalmo, Sweden,
## CityManila, Philippines, CityMarseille, France, CityMedellin, Colombia,
## CityMilan, Italy, CityMilton Keynes, United Kingdom, CityMilwaukee, WI,
## United States, CityMonterrey, Mexico, CityNanaimo, BC, Canada, CityNaples,
## Italy, CityNavi Mumbai, India, CityNewcastle, Australia, CityNice, France,
## CityNicosia, Cyprus, CityNizhny Novgorod, Russia, CityNorwich, United
## Kingdom, CityNottingham, United Kingdom, CityOdense, Denmark, CityOslo,
## Norway, CityOstrava, Czech Republic, CityPadova, Italy, CityPalermo,
## Italy, CityParamaribo, Suriname, CityParis, France, CityPerth, Australia,
## CityPhiladelphia, PA, United States, CityPhuket, Thailand, CityPortland,
## ME, United States, CityPortsmouth, United Kingdom, CityPoznan, Poland,
## CityPrague, Czech Republic, CityPristina, Kosovo (Disputed Territory),
## CityPune, India, CityQueretaro, Mexico, CityQuito, Ecuador, CityReading,
## United Kingdom, CityRegina, Canada, CityRichmond, VA, United States,
## CityRijeka, Croatia, CityRiyadh, Saudi Arabia, CitySaint Petersburg,
## Russia, CitySan Diego, CA, United States, CitySanta Barbara, CA, United
## States, CityShanghai, China, CitySingapore, Singapore, CityStuttgart,
## Germany, CitySumy, Ukraine, CitySurrey, Canada, CitySwindon, United
## Kingdom, CitySzeged, Hungary, CityTaichung, Taiwan, CityTaipei, Taiwan,
## CityTallahassee, FL, United States, CityThe Hague (Den Haag), Netherlands,
## CityThessaloniki, Greece, CityTijuana, Mexico, CityToledo, OH, United
## States, CityTrieste, Italy, CityUlaanbaatar, Mongolia, CityUtrecht,
## Netherlands, CityVadodara, India, CityVancouver, WA, United States,
## CityVienna, Austria, CityVirginia Beach, VA, United States, CityVoronezh,
## Russia, CityWichita, KS, United States, CityZaragoza (Saragossa), Spain

```

```
#knn
```

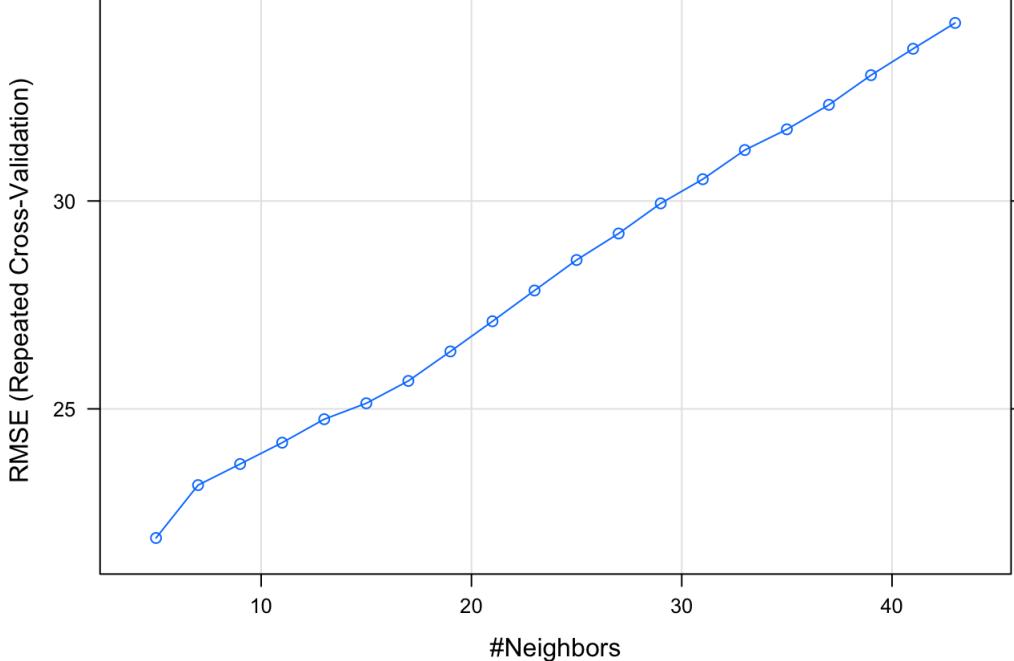
```
library(MLmetrics)
```

```
##
## Attaching package: 'MLmetrics'
```

```
## The following objects are masked from 'package:caret':  
##  
##     MAE, RMSE
```

```
## The following object is masked from 'package:base':  
##  
##     Recall
```

```
plot(knn)
```



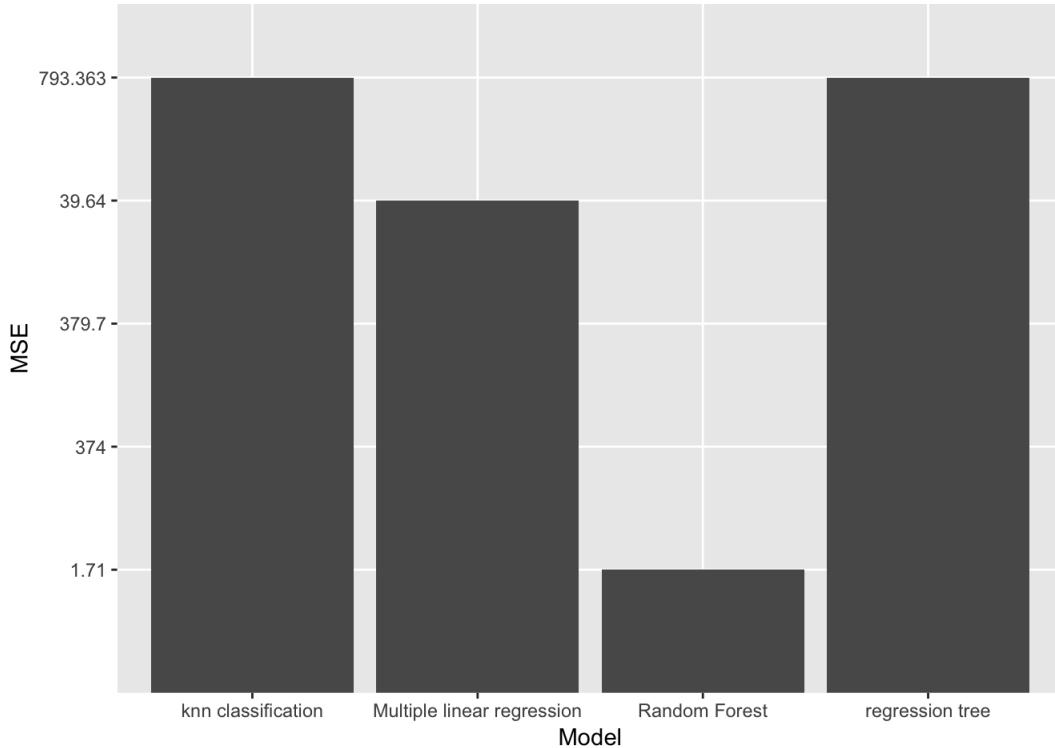
```
test<-predict(knn,newdata = testing)  
mean((testing$Rank-test)^2)
```

```
## [1] 565.6455
```

final MSE

```
all.MSE<-data.frame(MSE=c("793.363","379.7","39.64","1.71","374"),Model=c("knn classification","regression tree","Multiple linear regression","Random Forest","regression tree"))
```

```
ggplot(data=all.MSE,aes(x=Model,y=MSE)) +  
  geom_bar(stat="identity")
```



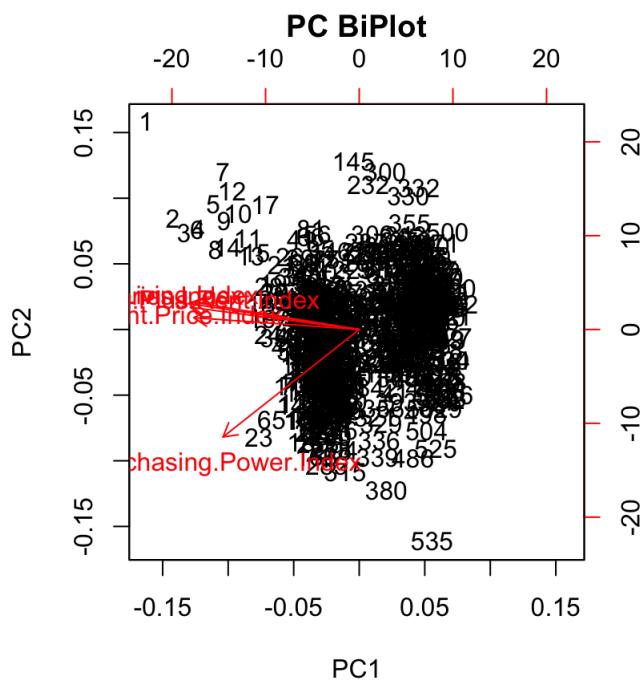
PCA + K-Means

Cleaning Data for PCA:

```
data_clean <- data[,-c(1,2)]
```

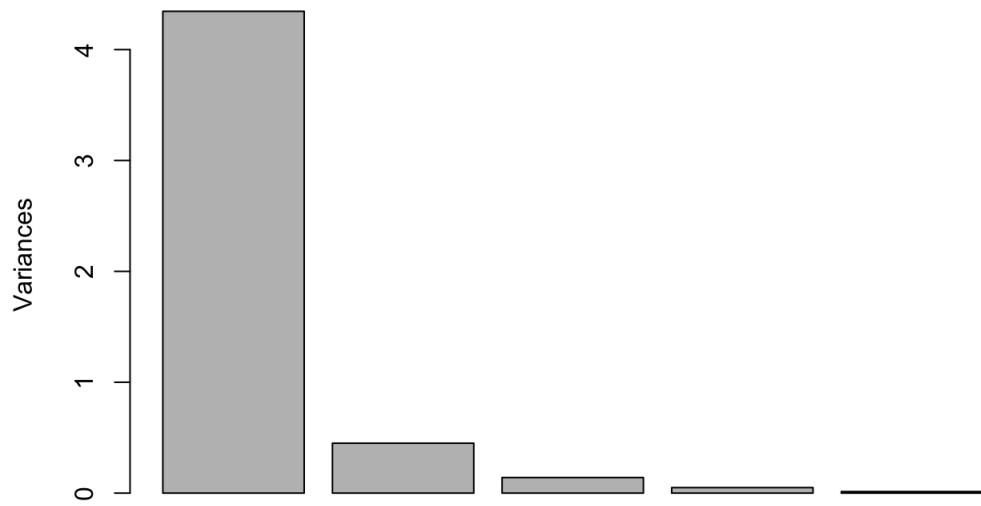
PCA ANALYSIS + K-MEANS CLUSTERING:

```
#ALL PRINCIPAL COMPONENTS PRESENT
pComp <- prcomp(as.matrix(data_clean[,-c(2)]), scale = TRUE, center = TRUE)
biplot(pComp, main="PC BiPlot")
```



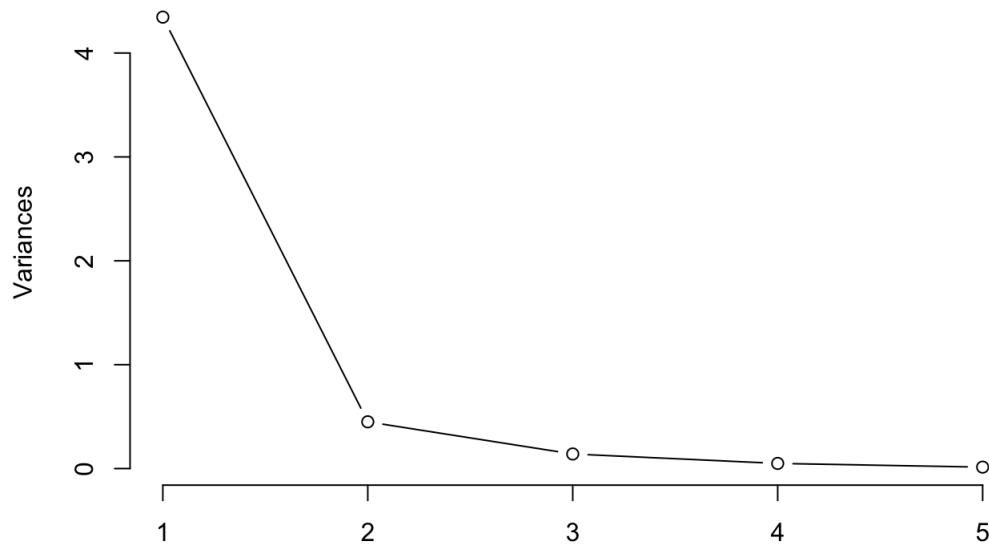
```
plot(pComp, main = "Screeplot A")
```

Screeplot A



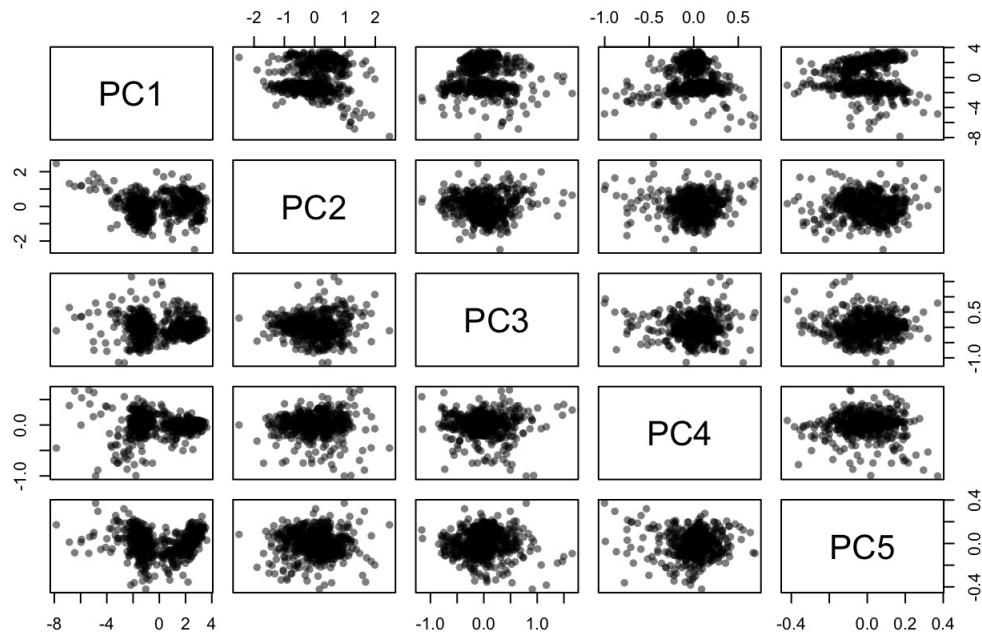
```
plot(pComp, type="1", main = "Screeplot B")
```

Screeplot B



```
allcomp <- data.frame(pComp$x[,1:5])
plot(allcomp, pch=16, col=rgb(0,0,0,0.5), main="All PC's Projection")
```

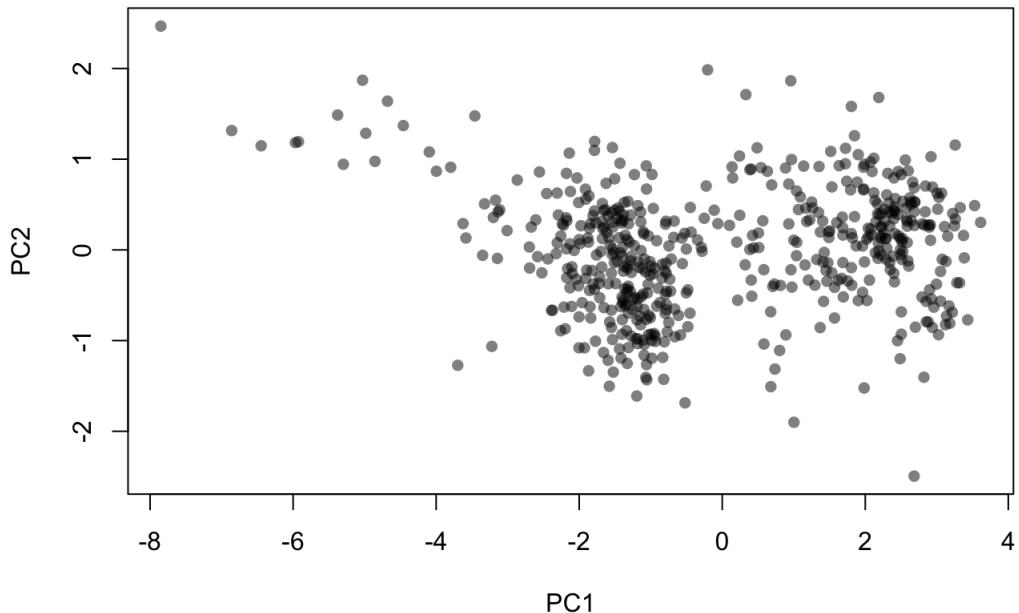
All PC's Projection



```
#Kaiser recommends to keep 1 PC  
#To keep 95% of the variance keep 2 PC's  
#screeplot recommends to keep 2 PC's
```

```
#WITH TWO PRINCIPAL COMPONENTS RETAINED  
retainedcomp <- data.frame(pComp$x[,1:2])  
plot(retainedcomp, pch=16, col=rgb(0,0,0,0.5), main="Retained PC1 and PC2 Projection")
```

Retained PC1 and PC2 Projection



```
summary(pComp)
```

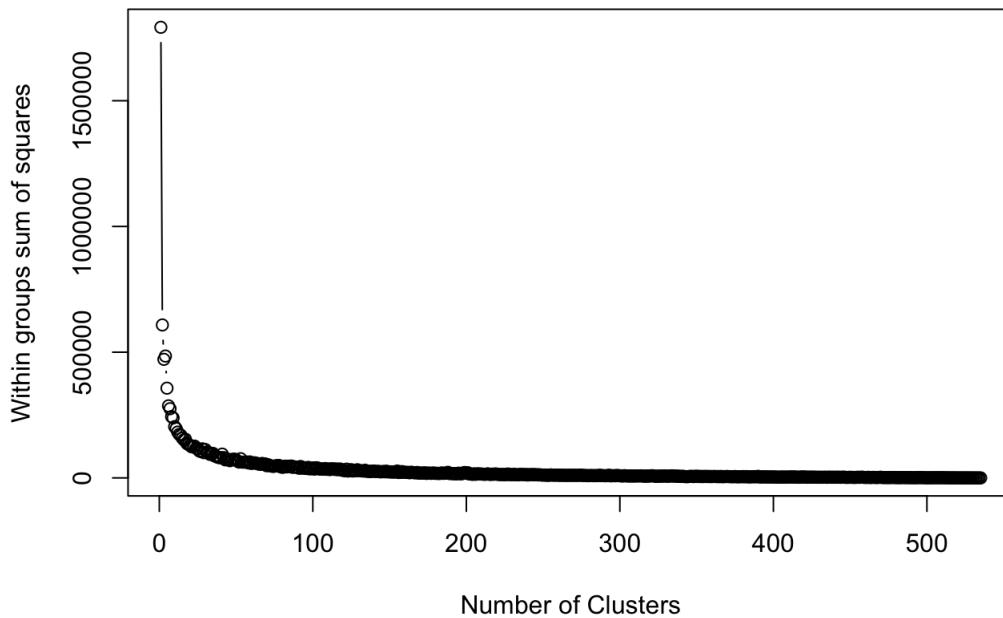
```
## Importance of components:  
##          PC1      PC2      PC3      PC4      PC5  
## Standard deviation 2.0846 0.67091 0.37487 0.22285 0.11810  
## Proportion of Variance 0.8691 0.09002 0.02811 0.00993 0.00279  
## Cumulative Proportion 0.8691 0.95917 0.98728 0.99721 1.00000
```

```
round(pComp$rotation[,1:5],2)
```

```
##                               PC1   PC2   PC3   PC4   PC5
## Cost.of.Living.Index      -0.47  0.22 -0.02  0.19 -0.83
## Cost.of.Living.Plus.Rent.Index -0.47  0.19  0.06 -0.85  0.12
## Groceries.Index          -0.46  0.23  0.64  0.40  0.40
## Restaurant.Price.Index    -0.46  0.10 -0.76  0.27  0.37
## Local.Purchasing.Power.Index -0.38 -0.92  0.09  0.00 -0.03
```

```
#Determining Number of Clusters
withinSumSquares <- (nrow(data_clean)-1)*sum(apply(data_clean,2,var))
for (i in 2:535) withinSumSquares[i] <- sum(kmeans(data_clean,centers=i)$withinss)
plot(1:535, withinSumSquares, type="b", xlab="Number of Clusters", ylab="Within groups sum of squares", main ="Within groups sum of squares")
```

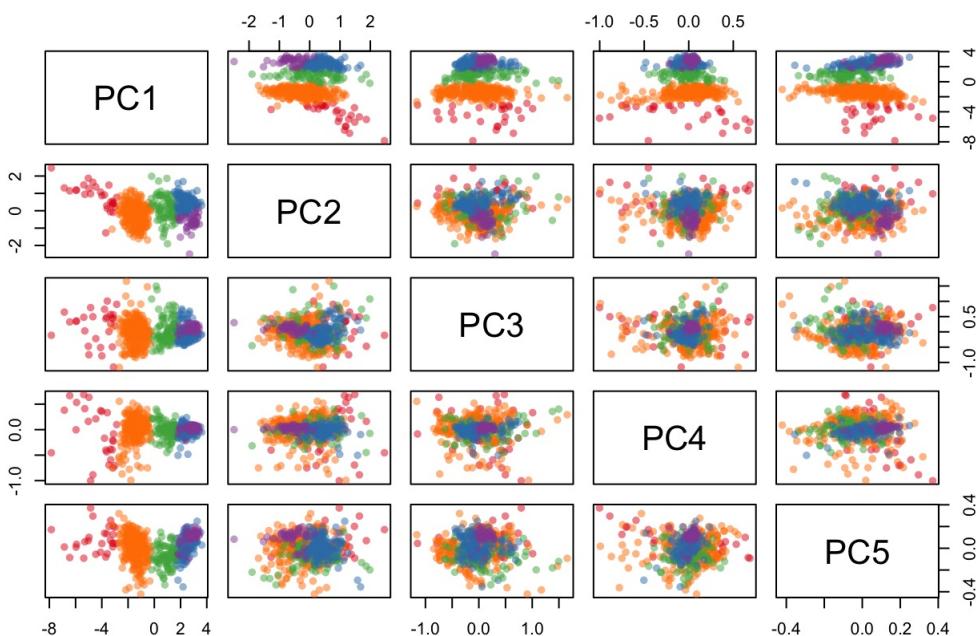
Within groups sum of squares



```
#We should choose k=5 as shown from the Within groups sum of squares plot.
myKmean <- kmeans((retainedcomp), 5)
myKmean
```

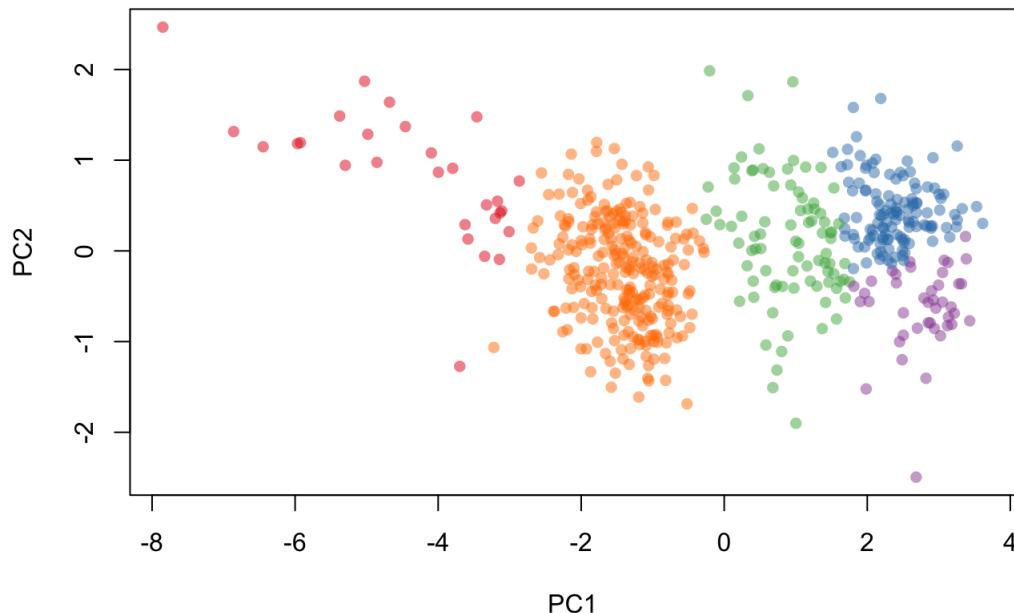
```
palette(alpha(brewer.pal(9,'Set1')), 0.5)
plot(allcomp, col=myKmean$cluster, pch=16, main="All PC's K-Means Cluster Projection")
```

All PC's K-Means Cluster Projection



```
plot(retainedcomp, col=myKmean$cluster, pch=16, main="Retained PC's K-Means Cluster Projection")
```

Retained PC's K-Means Cluster Projection



```
# Centers
myKmean$centers
```

```
##          PC1         PC2
## 1 -4.3675494  0.8380009
## 2  2.3919512  0.4288863
## 3  0.8999329  0.1118262
## 4  2.7691896 -0.6216821
## 5 -1.4226413 -0.2323869
```

```
# Cluster sizes
groups <- data.frame(myKmean$cluster)
table(groups)
```

```
## groups
##   1   2   3   4   5
## 28 123  86  42 257
```

```
# Cities by cluster
data[myKmean$cluster==1, ]
```

	Rank	City	Cost.of.Living.Index	Rent.Index
## 1	1	Hamilton, Bermuda	137.56	103.03
## 2	2	Zurich, Switzerland	128.65	62.62
## 3	3	Basel, Switzerland	126.89	46.14
## 4	4	Lausanne, Switzerland	119.62	50.35
## 5	5	Bern, Switzerland	118.42	39.22
## 6	6	Geneva, Switzerland	118.33	69.16
## 7	7	Reykjavik, Iceland	112.57	57.40
## 8	8	Lugano, Switzerland	111.88	49.58
## 9	9	Stavanger, Norway	111.00	38.85
## 10	10	Oslo, Norway	107.14	48.58
## 11	11	Bergen, Norway	102.87	39.38
## 12	12	New York, NY, United States	100.00	100.00
## 13	13	Trondheim, Norway	99.73	39.87
## 14	14	San Francisco, CA, United States	96.88	106.49
## 15	15	Honolulu, HI, United States	93.72	63.96
## 16	16	Anchorage, AK, United States	93.19	39.45
## 17	17	Brooklyn, NY, United States	90.31	81.02
## 18	18	Washington, DC, United States	88.50	70.28
## 19	19	Santa Rosa, CA, United States	88.27	56.69
## 20	20	Copenhagen, Denmark	87.91	47.84

```

    " " " " "
## 21 21      Copenhagen, Denmark          86.87 46.12
## 22 22      Charleston, SC, United States   86.85 61.31
## 23 23      Luxembourg, Luxembourg          85.97 61.20
## 24 24      Bellevue, WA, United States       85.51 64.70
## 28 28      Seattle, WA, United States        84.09 76.39
## 29 29      Berkeley, CA, United States       84.08 61.58
## 35 35      Jersey City, NJ, United States     81.18 77.14
## 37 37      Oakland, CA, United States        80.46 76.09
## Cost.of.Living.Plus.Rent.Index Groceries.Index Restaurant.Price.Index
## 1           121.21      126.56      151.77
## 2           97.39       127.35      127.14
## 3           88.66       120.44      129.10
## 4           86.83       116.35      122.83
## 5           80.93       114.54      114.86
## 6           95.06       112.08      119.78
## 7           86.45       98.53       127.87
## 8           82.39       104.85      120.62
## 9           76.85       95.97       134.55
## 10          79.42       93.81       114.42
## 11          72.82       87.02       116.35
## 12          100.00      100.00      100.00
## 13          71.39       82.31       120.45
## 14          101.43      101.93      94.58
## 15          79.63       96.32       86.72
## 16          67.75       96.74       78.76
## 17          85.91       83.16       95.27
## 18          79.87       86.63       86.23
## 19          73.32       84.35       82.55
## 20          68.94       64.59       113.18
## 21          67.58       90.86       73.48
## 22          74.76       70.75       99.49
## 23          74.24       78.24       82.29
## 24          75.66       83.72       80.27
## 28          80.45       81.99       87.60
## 29          73.43       86.08       81.44
## 35          79.27       77.54       78.55
## 37          78.39       75.71       83.08
## Local.Purchasing.Power.Index
## 1           114.19
## 2           142.39
## 3           141.48
## 4           132.58
## 5           115.48
## 6           133.47
## 7           94.21
## 8           131.26
## 9           112.62
## 10          104.30
## 11          108.19
## 12          100.00
## 13          113.08
## 14          125.95
## 15          113.58
## 16          138.38
## 17          87.05
## 18          131.53
## 19          116.47
## 20          114.05
## 21          106.06
## 22          120.25
## 23          186.00
## 24          140.00
## 28          119.03
## 29          120.46
## 35          137.74
## 37          124.57

```

```
data[myKmean$cluster==2,]
```

##	Rank	City	Cost.of.Living.Index
##	330	Addis Ababa, Ethiopia	49.96

##	332	332	Havana, Cuba	49.52
##	343	343	Harare, Zimbabwe	47.78
##	345	345	San Salvador, El Salvador	47.22
##	346	346	Guayaquil, Ecuador	47.21
##	352	352	Santo Domingo, Dominican Republic	45.88
##	355	355	Phnom Penh, Cambodia	45.67
##	357	357	Osijek, Croatia	44.95
##	361	361	Campinas, Brazil	44.45
##	362	362	Guatemala City, Guatemala	44.39
##	363	363	Dar es Salaam, Tanzania	44.33
##	365	365	Sao Paulo, Brazil	44.16
##	366	366	Rio de Janeiro, Brazil	44.12
##	370	370	Budapest, Hungary	43.74
##	373	373	Pattaya, Thailand	42.53
##	374	374	Irbil, Iraq	42.51
##	378	378	Kuching, Malaysia	42.15
##	379	379	Kota Kinabalu, Malaysia	42.15
##	381	381	Nairobi, Kenya	41.76
##	382	382	Jakarta, Indonesia	41.60
##	384	384	Bali, Indonesia	41.48
##	385	385	Lima, Peru	41.47
##	388	388	Recife, Brazil	40.67
##	389	389	Porto Alegre, Brazil	40.56
##	391	391	Chiang Mai, Thailand	40.53
##	392	392	Belo Horizonte, Brazil	40.48
##	394	394	Bucharest, Romania	40.39
##	395	395	Sofia, Bulgaria	40.36
##	397	397	Florianopolis, Brazil	40.26
##	398	398	Belgrade, Serbia	40.10
##	400	400	Podgorica, Montenegro	39.83
##	401	401	Krakow (Cracow), Poland	39.53
##	403	403	Saint Petersburg, Russia	39.25
##	404	404	Sarajevo, Bosnia And Herzegovina	39.25
##	405	405	Varna, Bulgaria	39.13
##	407	407	Constanta, Romania	38.89
##	408	408	Rabat, Morocco	38.59
##	409	409	Buenos Aires, Argentina	38.57
##	410	410	Bydgoszcz, Poland	38.54
##	411	411	Szeged, Hungary	38.41
##	412	412	Hanoi, Vietnam	38.34
##	413	413	Curitiba, Brazil	38.34
##	414	414	Timisoara, Romania	38.19
##	415	415	Cluj-Napoca, Romania	38.13
##	416	416	Debrecen, Hungary	38.05
##	418	418	Manila, Philippines	37.95
##	419	419	Istanbul, Turkey	37.85
##	420	420	Ho Chi Minh City, Vietnam	37.82
##	422	422	Szczecin, Poland	37.35
##	423	423	Chelyabinsk, Russia	37.29
##	424	424	Tirana, Albania	37.25
##	426	426	Brasov, Romania	37.13
##	427	427	Banja Luka, Bosnia And Herzegovina	36.54
##	428	428	Iasi, Romania	36.54
##	429	429	Plovdiv, Bulgaria	36.45
##	430	430	Cebu, Philippines	36.41
##	431	431	Yekaterinburg, Russia	36.41
##	432	432	Burgas, Bulgaria	36.26
##	434	434	Cuenca, Ecuador	36.13
##	435	435	Lublin, Poland	36.12
##	436	436	Colombo, Sri Lanka	36.00
##	437	437	Samara, Russia	35.96
##	438	438	Arad, Romania	35.84
##	439	439	Surabaya, Indonesia	35.72
##	440	440	Casablanca, Morocco	35.68
##	441	441	Sibiu, Romania	35.63
##	442	442	Bandung, Indonesia	35.58
##	443	443	Paramaribo, Suriname	35.45
##	444	444	Kaliningrad, Russia	35.40
##	445	445	Novi Sad, Serbia	35.36
##	446	446	Bogota, Colombia	35.05
##	447	447	Yogyakarta, Indonesia	34.91
##	448	448	Astana, Kazakhstan	34.90
##	450	450	Skopje, Macedonia	34.68

##	100	100	Oradea, Romania	34.35
##	451	451	Nis, Serbia	34.20
##	452	452	Tehran, Iran	34.19
##	453	453	Mexico City, Mexico	34.18
##	454	454	Ulaanbaatar, Mongolia	34.16
##	455	455	Minsk, Belarus	34.07
##	457	457	Nizhny Novgorod, Russia	34.04
##	458	458	Barranquilla, Colombia	34.04
##	459	459	Izmir, Turkey	34.03
##	460	460	Medellin, Colombia	33.82
##	462	462	Antalya, Turkey	33.78
##	463	463	Chisinau, Moldova	33.75
##	465	465	Kazan, Russia	33.67
##	466	466	Novosibirsk, Russia	33.65
##	467	467	Davao, Philippines	33.57
##	468	468	Asuncion, Paraguay	33.49
##	469	469	Algiers, Algeria	33.44
##	470	470	Lagos, Nigeria	33.33
##	471	471	Dumaguete, Philippines	33.21
##	472	472	Yerevan, Armenia	33.16
##	473	473	Tijuana, Mexico	32.70
##	474	474	Almaty, Kazakhstan	32.51
##	475	475	Rostov-na-donu, Russia	32.40
##	476	476	Krasnodar, Russia	32.37
##	477	477	Kathmandu, Nepal	31.89
##	479	479	Voronezh, Russia	31.74
##	480	480	Quezon City, Philippines	31.66
##	481	481	Dhaka, Bangladesh	31.57
##	482	482	Kampala, Uganda	31.51
##	484	484	Cancun, Mexico	31.35
##	485	485	Queretaro, Mexico	31.01
##	487	487	Cali, Colombia	30.48
##	488	488	Tbilisi, Georgia	30.22
##	489	489	Odessa, Ukraine	30.13
##	490	490	Tashkent, Uzbekistan	29.94
##	491	491	Puerto Vallarta, Mexico	29.82
##	492	492	Kiev, Ukraine	29.42
##	493	493	Baku, Azerbaijan	29.41
##	494	494	Merida, Mexico	29.39
##	496	496	Puebla, Mexico	28.89
##	499	499	Dnipro, Ukraine	27.96
##	500	500	Caracas, Venezuela	27.82
##	502	502	Lviv, Ukraine	27.24
##	505	505	Kharkiv, Ukraine	26.71
##	506	506	Tunis, Tunisia	26.53
##	510	510	Lahore, Pakistan	25.83
##	511	511	Cairo, Egypt	25.68
##	520	520	Alexandria, Egypt	23.92
##	522	522	Sumy, Ukraine	23.84
##	Rent.Index Cost.of.Living.Plus.Rent.Index Groceries.Index			
##	330	28.77	39.93	39.26
##	332	9.56	30.60	35.26
##	343	13.31	31.46	40.14
##	345	15.92	32.40	45.60
##	346	14.87	31.90	39.27
##	352	11.73	29.72	35.34
##	355	17.63	32.40	45.08
##	357	7.51	27.23	35.73
##	361	12.25	29.21	30.99
##	362	14.77	30.37	39.08
##	363	22.22	33.87	30.77
##	365	16.59	31.11	32.25
##	366	16.19	30.89	29.67
##	370	16.04	30.63	33.14
##	373	19.18	31.48	43.07
##	374	11.69	27.92	36.73
##	378	5.74	24.92	42.98
##	379	12.08	27.92	42.93
##	381	13.17	28.23	36.97
##	382	15.80	29.39	41.08
##	384	8.45	25.84	44.51
##	385	15.51	29.18	36.03
##	--	--	--	--

## 388	8.17	25.29	30.60
## 389	10.49	26.32	28.08
## 391	11.04	26.57	46.11
## 392	9.86	25.99	26.77
## 394	12.86	27.36	30.96
## 395	12.36	27.10	33.08
## 397	12.08	26.92	28.90
## 398	11.54	26.58	28.17
## 400	9.68	25.56	29.54
## 401	17.33	29.02	29.92
## 403	17.55	28.98	30.71
## 404	9.22	25.03	29.94
## 405	8.49	24.63	32.69
## 407	8.44	24.48	27.69
## 408	13.42	26.67	32.89
## 409	11.75	25.87	29.66
## 410	14.65	27.23	29.79
## 411	9.60	24.77	30.26
## 412	13.06	26.37	35.91
## 413	9.68	24.77	25.26
## 414	10.74	25.20	30.87
## 415	13.27	26.36	31.34
## 416	9.29	24.44	29.62
## 418	15.80	27.46	31.73
## 419	11.20	25.24	31.34
## 420	16.41	27.69	36.25
## 422	12.27	25.48	26.88
## 423	7.64	23.25	32.57
## 424	10.18	24.43	28.33
## 426	10.76	24.65	28.62
## 427	7.47	22.78	28.38
## 428	9.89	23.92	29.24
## 429	7.86	22.92	29.56
## 430	10.52	24.16	34.29
## 431	11.45	24.60	29.43
## 432	7.32	22.56	29.78
## 434	10.63	24.06	31.13
## 435	17.45	27.28	27.87
## 436	10.87	24.11	37.80
## 437	11.23	24.26	28.06
## 438	8.62	22.96	28.54
## 439	7.03	22.14	38.13
## 440	15.30	26.03	28.81
## 441	8.99	23.02	28.98
## 442	7.38	22.23	37.78
## 443	6.88	21.93	37.34
## 444	7.58	22.23	28.28
## 445	7.06	21.97	26.62
## 446	12.63	24.44	26.09
## 447	7.32	21.85	38.34
## 448	12.00	24.06	27.81
## 450	9.00	22.52	26.04
## 451	7.01	21.41	27.89
## 452	5.61	20.66	25.56
## 453	18.48	26.75	28.27
## 454	17.94	26.49	29.88
## 455	9.46	22.47	31.33
## 457	10.95	23.13	26.58
## 458	10.46	22.88	27.39
## 459	9.54	22.44	25.05
## 460	7.94	21.68	28.41
## 461	11.16	23.09	27.87
## 462	6.01	20.64	31.25
## 463	8.66	21.87	25.05
## 465	11.02	22.95	26.46
## 466	10.85	22.86	28.36
## 467	7.28	21.13	30.27
## 468	10.53	22.62	26.16
## 469	8.93	21.84	33.22
## 470	30.24	31.86	27.68
## 471	7.35	20.97	35.44
## 472	9.67	22.04	25.40
## 473	10.75	22.31	27.50

## 474	11.68	22.65	24.50
## 475	10.43	22.00	24.78
## 476	10.48	22.01	25.66
## 477	5.15	19.23	27.07
## 479	7.40	20.22	26.77
## 480	8.34	20.62	26.12
## 481	6.03	19.48	28.10
## 482	9.36	21.02	25.60
## 484	10.30	21.39	26.75
## 485	9.26	20.72	28.38
## 487	7.55	19.62	24.69
## 488	10.46	20.87	23.36
## 489	10.22	20.70	21.03
## 490	9.43	20.23	24.99
## 491	14.71	22.67	26.85
## 492	14.53	22.37	23.17
## 493	9.30	19.89	24.32
## 494	5.72	18.19	26.53
## 496	6.88	18.47	24.07
## 499	7.41	18.23	20.28
## 500	8.43	18.64	28.40
## 502	9.92	19.04	21.17
## 505	8.80	18.23	19.40
## 506	6.83	17.21	24.26
## 510	5.27	16.10	22.76
## 511	5.24	16.01	21.31
## 520	3.67	14.33	21.09
## 522	3.75	14.33	18.01
## Restaurant.Price.Index Local.Purchasing.Power.Index			
## 330	25.06	11.84	
## 332	28.80	2.24	
## 343	34.75	27.70	
## 345	35.92	32.08	
## 346	36.69	35.23	
## 352	43.65	32.05	
## 355	25.71	22.53	
## 357	33.88	60.74	
## 361	42.79	52.58	
## 362	34.49	39.76	
## 363	32.43	29.36	
## 365	38.79	41.16	
## 366	40.01	36.57	
## 370	35.79	57.49	
## 373	27.58	28.42	
## 374	30.83	51.76	
## 378	18.94	40.85	
## 379	22.28	41.36	
## 381	35.98	30.62	
## 382	24.79	28.95	
## 384	24.08	27.20	
## 385	31.08	39.34	
## 388	32.84	27.96	
## 389	32.38	48.63	
## 391	20.17	33.13	
## 392	33.38	35.94	
## 394	39.75	58.57	
## 395	32.60	61.94	
## 397	36.15	40.22	
## 398	35.39	41.02	
## 400	34.44	52.16	
## 401	33.78	70.68	
## 403	40.88	57.01	
## 404	29.14	49.70	
## 405	34.34	52.57	
## 407	38.34	53.50	
## 408	26.71	46.21	
## 409	37.47	59.76	
## 410	30.29	66.32	
## 411	28.58	47.26	
## 412	21.05	44.08	
## 413	32.27	38.94	
## 414	35.35	55.46	
## 415	33.54	56.94	

" "	" "	" "
## 416	30.17	56.37
## 418	24.11	40.04
## 419	27.85	50.13
## 420	19.56	30.36
## 422	30.21	61.98
## 423	35.96	45.00
## 424	31.35	35.89
## 426	32.52	60.25
## 427	23.94	50.19
## 428	32.88	53.70
## 429	30.19	60.20
## 430	21.53	24.37
## 431	32.23	53.01
## 432	30.88	53.02
## 434	25.89	44.63
## 435	28.86	59.11
## 436	21.20	27.54
## 437	40.12	42.96
## 438	28.06	61.04
## 439	16.96	37.81
## 440	28.35	40.76
## 441	29.59	56.52
## 442	15.10	28.81
## 443	28.82	25.91
## 444	36.72	41.50
## 445	27.80	50.21
## 446	27.92	37.44
## 447	13.44	30.83
## 448	37.00	41.22
## 450	28.69	41.45
## 451	26.30	51.30
## 452	29.16	40.99
## 453	29.54	40.89
## 454	30.51	51.40
## 455	24.29	33.64
## 457	38.05	46.29
## 458	34.16	40.78
## 459	24.07	42.73
## 460	23.59	56.87
## 461	24.50	34.02
## 462	27.42	61.79
## 463	30.43	32.92
## 465	39.27	51.62
## 466	31.16	49.09
## 467	20.52	26.40
## 468	26.26	37.30
## 469	21.35	36.42
## 470	27.83	19.41
## 471	16.61	15.06
## 472	33.31	33.43
## 473	30.98	57.98
## 474	31.66	43.40
## 475	33.68	41.38
## 476	31.59	49.19
## 477	20.72	26.48
## 479	29.60	50.01
## 480	17.97	27.91
## 481	20.73	41.15
## 482	25.09	24.38
## 484	31.52	53.68
## 485	27.45	57.83
## 487	23.02	39.31
## 488	29.22	39.57
## 489	25.50	31.26
## 490	21.66	25.17
## 491	29.38	54.23
## 492	23.51	39.37
## 493	31.25	34.29
## 494	24.44	40.29
## 496	24.36	44.80
## 499	24.78	36.44
## 500	23.63	4.18
-- --	-- --	-- --

```

## 502          20.42        30.39
## 505          21.91        31.62
## 506          15.87        35.51
## 510          23.12        39.75
## 511          23.26        26.31
## 520          19.02        23.06
## 522          15.53        28.43

```

```
data[myKmean$cluster==3,]
```

Rank	City	Cost.of.Living.Index
145	Male, Maldives	70.45
229	Naples, Italy	64.82
232	Kingston, Jamaica	64.59
263	Taichung, Taiwan	62.23
266	Barcelona, Spain	62.15
271	Palermo, Italy	61.16
273	Nicosia, Cyprus	60.97
275	Beirut, Lebanon	60.79
279	Athens, Greece	60.44
287	Port of Spain, Trinidad And Tobago	59.60
295	Montevideo, Uruguay	58.05
296	Zaragoza (Saragossa), Spain	58.00
297	Thessaloniki, Greece	57.97
298	San Jose, Costa Rica	57.84
299	Limassol, Cyprus	57.71
300	Accra, Ghana	57.23
301	Kaohsiung, Taiwan	56.44
302	Ljubljana, Slovenia	56.34
303	Valencia, Spain	55.27
304	Manama, Bahrain	55.23
305	Tallinn, Estonia	55.23
306	Panama City, Panama	54.91
307	Amman, Jordan	54.72
308	Seville (Sevilla), Spain	54.70
309	Larnaca, Cyprus	54.31
310	Lisbon, Portugal	54.16
311	Alicante, Spain	53.90
312	Split, Croatia	53.62
313	Bangkok, Thailand	53.61
314	Sharjah, United Arab Emirates	53.45
316	Rijeka, Croatia	52.96
317	Zagreb, Croatia	52.20
318	Makati, Philippines	51.07
319	Coimbra, Portugal	51.07
320	Muscat, Oman	51.04
321	Al Khobar, Saudi Arabia	51.03
322	Funchal, Portugal	50.90
323	Riga, Latvia	50.82
324	Porto, Portugal	50.43
325	Shanghai, China	50.41
326	Granada, Spain	50.41
327	Malaga, Spain	50.38
328	Santiago, Chile	50.37
329	Jeddah (Jiddah), Saudi Arabia	49.99
331	Tartu, Estonia	49.65
333	Quito, Ecuador	49.42
334	Maribor, Slovenia	49.30
335	Santa Cruz de Tenerife, Spain	48.69
336	Riyadh, Saudi Arabia	48.68
337	Bratislava, Slovakia	48.64
338	Braga, Portugal	48.55
339	Ad Dammam, Saudi Arabia	48.43
340	Vilnius, Lithuania	48.31
341	Prague, Czech Republic	48.02
342	Bandar Seri Begawan, Brunei	48.01
344	Las Palmas de Gran Canaria, Spain	47.39
347	Baghdad, Iraq	47.17
348	Phuket, Thailand	46.98
349	Klaipeda, Lithuania	46.98
350	Kosice, Slovakia	46.27
351	Pretoria, South Africa	45.89

## 353	353	Kaunas, Lithuania	45.88	
## 354	354	Windhoek, Namibia	45.84	
## 356	356	Johannesburg, South Africa	45.51	
## 358	358	Brno, Czech Republic	44.59	
## 359	359	Moscow, Russia	44.54	
## 360	360	Selangor, Malaysia	44.53	
## 364	364	Petaling Jaya, Malaysia	44.31	
## 367	367	Brasilia, Brazil	44.02	
## 368	368	Penang, Malaysia	43.98	
## 369	369	Beijing, China	43.88	
## 371	371	Gdansk, Poland	42.82	
## 372	372	Johor Bahru, Malaysia	42.59	
## 375	375	Kuala Lumpur, Malaysia	42.44	
## 376	376	Warsaw, Poland	42.32	
## 377	377	Shenzhen, China	42.21	
## 380	380	Peterborough, United Kingdom	41.93	
## 383	383	Cape Town, South Africa	41.58	
## 386	386	Olomouc, Czech Republic	41.27	
## 387	387	Gdynia, Poland	41.22	
## 390	390	Ostrava, Czech Republic	40.55	
## 393	393	Durban, South Africa	40.48	
## 396	396	Guangzhou, China	40.29	
## 399	399	Wroclaw, Poland	40.00	
## 402	402	Port Elizabeth, South Africa	39.41	
## 417	417	Suzhou, China	37.95	
		Rent.Index Cost.of.Living.Plus.Rent.Index Groceries.Index		
## 145	31.96	52.23	71.79	
## 229	18.34	42.82	56.22	
## 232	15.89	41.54	64.91	
## 263	13.02	38.94	72.88	
## 266	32.44	48.09	48.06	
## 271	16.75	40.14	50.93	
## 273	17.72	40.50	46.70	
## 275	32.31	47.31	42.01	
## 279	12.73	37.85	44.92	
## 287	19.73	40.73	55.83	
## 295	17.98	39.09	44.97	
## 296	18.18	39.15	45.42	
## 297	11.28	35.86	43.49	
## 298	18.15	39.05	54.00	
## 299	25.14	42.29	44.64	
## 300	36.27	47.31	50.61	
## 301	9.66	34.30	63.90	
## 302	19.10	38.71	44.61	
## 303	19.30	38.24	43.85	
## 304	28.59	42.62	47.89	
## 305	17.81	37.51	37.57	
## 306	30.02	43.13	48.72	
## 307	12.29	34.63	43.18	
## 308	20.25	38.39	43.86	
## 309	11.52	34.06	41.24	
## 310	29.92	42.69	42.20	
## 311	15.68	35.81	42.74	
## 312	13.41	34.59	42.31	
## 313	25.72	40.41	52.65	
## 314	27.86	41.34	42.29	
## 316	11.34	33.26	41.96	
## 317	14.69	34.44	41.94	
## 318	23.04	37.80	53.50	
## 319	13.59	33.33	40.31	
## 320	24.72	38.58	41.46	
## 321	14.18	33.58	43.30	
## 322	17.76	35.21	38.92	
## 323	13.56	33.18	36.36	
## 324	21.87	36.91	39.50	
## 325	34.08	42.68	51.66	
## 326	14.72	33.52	37.44	
## 327	20.51	36.24	40.51	
## 328	17.21	34.68	40.37	
## 329	12.25	32.12	37.48	
## 331	13.67	32.62	37.77	
## 333	14.79	33.03	45.13	
## - - -	- - -	- - -	- - -	- - -

## 334	10.80	31.08	38.45
## 335	17.39	33.87	37.32
## 336	14.06	32.30	38.42
## 337	22.28	36.16	39.84
## 338	12.92	31.69	38.22
## 339	12.46	31.40	40.41
## 340	17.05	33.51	35.05
## 341	23.87	36.59	39.22
## 342	24.00	36.64	46.01
## 344	19.71	34.29	39.00
## 347	14.09	31.51	37.22
## 348	15.25	31.96	47.75
## 349	10.79	29.85	36.30
## 350	15.30	31.61	36.56
## 351	13.92	30.75	34.99
## 353	11.73	29.71	34.52
## 354	20.34	33.77	40.21
## 356	17.34	32.18	35.68
## 358	18.20	32.10	36.98
## 359	29.31	37.33	33.29
## 360	8.87	27.65	40.31
## 364	12.11	29.07	48.95
## 367	13.90	29.76	34.36
## 368	10.13	27.96	45.30
## 369	31.50	38.02	37.61
## 371	16.42	30.32	30.83
## 372	9.83	27.09	50.21
## 375	16.70	30.25	41.63
## 376	20.60	32.04	31.63
## 377	25.64	34.37	39.71
## 380	19.52	31.32	22.53
## 383	27.38	34.86	32.79
## 386	12.42	27.61	36.53
## 387	13.91	28.29	30.93
## 390	9.60	25.90	33.62
## 393	13.43	27.67	31.46
## 396	18.96	30.19	37.63
## 399	17.35	29.27	31.51
## 402	11.43	26.17	31.14
## 417	15.78	27.45	36.03
## Restaurant.Price.Index Local.Purchasing.Power.Index			
## 145	39.36	28.32	
## 229	59.15	68.80	
## 232	41.79	29.03	
## 263	28.17	65.41	
## 266	60.42	80.46	
## 271	59.39	80.13	
## 273	70.81	74.05	
## 275	64.39	54.43	
## 279	62.38	52.48	
## 287	53.74	51.20	
## 295	56.33	50.08	
## 296	55.82	83.22	
## 297	58.35	49.84	
## 298	50.33	53.97	
## 299	61.39	77.56	
## 300	35.26	14.15	
## 301	25.32	110.16	
## 302	50.53	78.01	
## 303	52.36	90.32	
## 304	54.77	72.63	
## 305	60.44	74.16	
## 306	56.33	43.49	
## 307	53.30	45.41	
## 308	53.13	83.49	
## 309	61.99	80.84	
## 310	48.79	55.01	
## 311	53.97	80.73	
## 312	50.28	51.11	
## 313	29.92	44.50	
## 314	40.54	102.11	
## 316	42.72	54.56	
## 317	43.99	66.88	

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## 318      26.37      44.96
## 319      39.91      72.57
## 320      53.53      94.38
## 321      35.34     118.44
## 322      37.82      54.47
## 323      47.56      56.56
## 324      42.58      59.38
## 325      38.61      72.16
## 326      51.53      92.40
## 327      53.00      87.90
## 328      50.49      51.83
## 329      34.96     117.30
## 331      44.56      83.33
## 333      37.30      40.02
## 334      41.88      90.05
## 335      53.01      90.92
## 336      34.25     125.38
## 337      42.14      71.93
## 338      34.80      64.30
## 339      32.03     133.28
## 340      48.83      61.08
## 341      37.83      77.71
## 342      33.42     105.16
## 344      47.20      91.00
## 347      40.60      44.10
## 348      28.58      58.71
## 349      43.53      58.45
## 350      34.18      61.88
## 351      42.21      83.65
## 353      41.31      61.43
## 354      43.45      55.74
## 356      42.93     108.84
## 358      32.93      75.09
## 359      48.98      59.51
## 360      25.83      91.05
## 364      22.16      73.49
## 367      42.56      63.24
## 368      24.70      76.04
## 369      35.68      79.45
## 371      38.37      76.20
## 372      23.81      59.51
## 375      25.04      82.84
## 376      39.89      76.34
## 377      29.22      86.03
## 380      42.75     139.17
## 383      43.81      73.59
## 386      30.38      79.20
## 387      38.21      70.10
## 390      30.99      84.10
## 393      40.72      98.98
## 396      27.12      82.93
## 399      34.82      76.70
## 402      36.24      76.26
## 417      30.16      94.00

```

```
data[myKmean$cluster==4,]
```

	Rank	City	Cost.of.Living.Index
## 406	406	Poznan, Poland	38.99
## 421	421	Katowice, Poland	37.48
## 425	425	Lodz, Poland	37.13
## 433	433	Chengdu, China	36.16
## 449	449	Ankara, Turkey	34.77
## 456	456	Monterrey, Mexico	34.12
## 464	464	Bursa, Turkey	33.72
## 478	478	Craiova, Romania	31.78
## 483	483	Guadalajara, Mexico	31.46
## 486	486	Gurgaon, India	30.71
## 495	495	Mumbai, India	29.03
## 497	497	Delhi, India	28.67
## 498	498	Noida, India	28.55
... - - -	- - -	- - -	- - -

## 501	501	Pune, India	27.41
## 503	503	Ludhiana, India	27.17
## 504	504	Bangalore, India	26.83
## 507	507	Pristina, Kosovo (Disputed Territory)	26.24
## 508	508	Chandigarh, India	26.00
## 509	509	Islamabad, Pakistan	25.86
## 512	512	Jaipur, India	25.46
## 513	513	Indore, India	25.40
## 514	514	Thane, India	25.31
## 515	515	Chennai, India	25.20
## 516	516	Kolkata, India	24.80
## 517	517	Lucknow (Lakhnau), India	24.75
## 518	518	Goa, India	24.34
## 519	519	Ahmedabad, India	24.24
## 521	521	Karachi, Pakistan	23.90
## 523	523	Surat, India	23.77
## 524	524	Hyderabad, India	23.59
## 525	525	Nagpur, India	22.76
## 526	526	Guwahati, India	22.68
## 527	527	Mysore, India	22.41
## 528	528	Bhubaneswar, India	22.40
## 529	529	Mangalore, India	22.40
## 530	530	Coimbatore, India	22.38
## 531	531	Bhopal, India	22.37
## 532	532	Vadodara, India	22.28
## 533	533	Kochi, India	21.73
## 534	534	Visakhapatnam, India	21.52
## 535	535	Navi Mumbai, India	19.30
## 536	536	Thiruvananthapuram, India	19.26
## Rent.Index Cost.of.Living.Plus.Rent.Index Groceries.Index			
## 406	13.25	26.81	30.18
## 421	11.36	25.11	27.90
## 425	11.67	25.08	27.34
## 433	11.63	24.55	33.43
## 449	6.56	21.42	29.59
## 456	11.28	23.31	29.17
## 464	5.74	20.48	26.98
## 478	7.23	20.16	25.59
## 483	9.49	21.06	28.92
## 486	9.96	20.89	26.63
## 495	20.31	24.90	26.63
## 497	8.73	19.23	25.80
## 498	6.18	17.96	25.14
## 501	7.38	17.93	26.76
## 503	4.40	16.39	25.51
## 504	8.60	18.20	26.53
## 507	8.36	17.78	22.23
## 508	5.70	16.39	25.46
## 509	7.48	17.16	23.37
## 512	4.98	15.76	23.87
## 513	4.40	15.46	25.73
## 514	9.89	18.01	24.18
## 515	6.90	16.53	25.91
## 516	6.00	15.90	23.35
## 517	4.44	15.14	23.21
## 518	6.21	15.76	24.63
## 519	5.19	15.22	24.89
## 521	6.15	15.50	20.89
## 523	3.78	14.31	23.78
## 524	5.99	15.26	23.02
## 525	4.50	14.12	21.62
## 526	4.04	13.85	22.91
## 527	4.32	13.85	23.87
## 528	4.40	13.88	23.66
## 529	5.05	14.19	22.21
## 530	5.21	14.25	22.45
## 531	3.43	13.41	20.13
## 532	3.78	13.52	22.26
## 533	5.45	14.02	21.93
## 534	4.26	13.35	21.09
## 535	4.70	12.39	19.21
## 536	4.69	12.36	18.14

Restaurant.Price.Index Local.Purchasing.Power.Index

```

## 406      33.34      77.35
## 421      32.27      77.78
## 425      31.56      71.81
## 433      28.20      82.62
## 449      25.13      64.55
## 456      33.07      79.87
## 464      21.44      57.91
## 478      24.92      59.11
## 483      28.03      64.69
## 486      27.52      113.89
## 495      26.36      67.69
## 497      25.30      77.75
## 498      24.53      89.48
## 501      22.68      86.55
## 503      21.18      68.43
## 504      18.70      96.51
## 507      21.10      68.94
## 508      19.17      64.37
## 509      19.20      50.11
## 512      18.29      77.10
## 513      15.97      50.73
## 514      20.97      81.00
## 515      15.97      67.87
## 516      21.09      60.41
## 517      19.82      76.50
## 518      20.14      54.97
## 519      17.40      70.18
## 521      18.57      36.66
## 523      17.75      66.45
## 524      17.35      78.00
## 525      16.99      98.45
## 526      13.70      71.26
## 527      13.38      45.78
## 528      13.42      67.00
## 529      15.92      79.58
## 530      14.39      56.46
## 531      15.56      68.22
## 532      14.43      74.59
## 533      12.20      73.42
## 534      17.09      55.47
## 535      12.55      138.06
## 536      11.93      68.15

```

```
data[myKmean$cluster==5,]
```

	Rank	City	Cost.of.Living.Index
## 25	25	Tokyo, Japan	84.78
## 26	26	Paris, France	84.68
## 27	27	Odense, Denmark	84.09
## 30	30	Aalborg, Denmark	82.21
## 31	31	Amsterdam, Netherlands	82.14
## 32	32	Seoul, South Korea	81.96
## 33	33	Arhus, Denmark	81.94
## 34	34	London, United Kingdom	81.31
## 36	36	Helsinki, Finland	80.60
## 38	38	Singapore, Singapore	80.40
## 39	39	Dublin, Ireland	80.28
## 40	40	Sydney, Australia	79.93
## 41	41	Hartford, CT, United States	79.85
## 42	42	Albany, NY, United States	79.38
## 43	43	Philadelphia, PA, United States	79.25
## 44	44	Tampere, Finland	79.04
## 45	45	Milton Keynes, United Kingdom	78.50
## 46	46	Grenoble, France	78.43
## 47	47	Irvine, CA, United States	78.38
## 48	48	Lyon, France	78.00
## 49	49	Long Beach, CA, United States	77.95
## 50	50	Linz, Austria	77.80
## 51	51	Los Angeles, CA, United States	77.66
## 52	52	Tel Aviv-Yafo, Israel	77.39
## 53	53	Barrie, Canada	77.37
..

## 54	54	Chicago, IL, United States	77.33
## 55	55	Stockholm, Sweden	77.23
## 56	56	Florence, Italy	77.21
## 57	57	Boulder, CO, United States	77.16
## 58	58	The Hague (Den Haag), Netherlands	76.75
## 59	59	Reading, United Kingdom	76.73
## 60	60	Auckland, New Zealand	76.63
## 61	61	Jerusalem, Israel	76.62
## 62	62	Bordeaux, France	76.31
## 63	63	Utrecht, Netherlands	76.30
## 64	64	Toulouse, France	76.30
## 65	65	San Jose, CA, United States	76.28
## 66	66	Burlington, VT, United States	76.11
## 67	67	Pittsburgh, PA, United States	76.04
## 68	68	Nice, France	75.84
## 69	69	Miami, FL, United States	75.83
## 70	70	Brussels, Belgium	75.69
## 71	71	Graz, Austria	75.61
## 72	72	Santa Barbara, CA, United States	75.55
## 73	73	Sacramento, CA, United States	75.54
## 74	74	Strasbourg, France	75.47
## 75	75	Genoa, Italy	75.38
## 76	76	Gent, Belgium	75.27
## 77	77	Perth, Australia	75.09
## 78	78	Antwerp, Belgium	74.88
## 79	79	Portland, ME, United States	74.81
## 80	80	West Palm Beach, FL, United States	74.79
## 81	81	Hong Kong, Hong Kong	74.73
## 82	82	Innsbruck, Austria	74.66
## 83	83	Leuven, Belgium	74.58
## 84	84	Leiden, Netherlands	74.56
## 85	85	Osaka, Japan	74.53
## 86	86	Melbourne, Australia	74.53
## 87	87	Bath, United Kingdom	74.48
## 88	88	Everett, WA, United States	74.36
## 89	89	Saskatoon, Canada	74.26
## 90	90	Tacoma, WA, United States	74.21
## 91	91	Portland, OR, United States	74.17
## 92	92	Rotterdam, Netherlands	74.08
## 93	93	Montpellier, France	74.08
## 94	94	St. John's, NL, Canada	74.05
## 95	95	Milan, Italy	73.89
## 96	96	Maastricht, Netherlands	73.87
## 97	97	Baltimore, MD, United States	73.85
## 98	98	Munich, Germany	73.79
## 99	99	Espoo, Finland	73.78
## 100	100	New Orleans, LA, United States	73.61
## 101	101	Galway, Ireland	73.54
## 102	102	Cork, Ireland	73.53
## 103	103	Padova, Italy	73.49
## 104	104	Haifa, Israel	73.42
## 105	105	Charlotte, NC, United States	73.33
## 106	106	Burlington, Canada	73.13
## 107	107	Aberdeen, United Kingdom	73.02
## 108	108	Dusseldorf, Germany	73.00
## 109	109	Minneapolis, MN, United States	72.93
## 110	110	Adelaide, Australia	72.92
## 111	111	Eindhoven, Netherlands	72.82
## 112	112	Cambridge, United Kingdom	72.60
## 113	113	Oxford, United Kingdom	72.60
## 114	114	Darwin, Australia	72.47
## 115	115	Eugene, OR, United States	72.46
## 116	116	Nantes, France	72.37
## 117	117	Groningen, Netherlands	72.29
## 118	118	San Diego, CA, United States	72.29
## 119	119	Ramat Gan, Israel	72.15
## 120	120	Hamburg, Germany	72.15
## 121	121	Bellingham, WA, United States	72.14
## 122	122	Atlanta, GA, United States	72.05
## 123	123	Denver, CO, United States	72.02
## 124	124	Saint Paul, MN, United States	71.94
## 125	125	Hamilton, New Zealand	71.91
## 126	126	Birmingham, AL, United States	71.87

## 127	127	Frankfurt, Germany	71.64
## 128	128	Wellington, New Zealand	71.52
## 129	129	Asheville, NC, United States	71.52
## 130	130	Trieste, Italy	71.51
## 131	131	Fort Myers, FL, United States	71.50
## 132	132	Newcastle, Australia	71.42
## 133	133	Portsmouth, United Kingdom	71.04
## 134	134	Halifax, Canada	70.88
## 135	135	Vienna, Austria	70.86
## 136	136	Heidelberg, Germany	70.82
## 137	137	Indianapolis, IN, United States	70.79
## 138	138	Edinburgh, United Kingdom	70.73
## 139	139	Jacksonville, FL, United States	70.62
## 140	140	Buffalo, NY, United States	70.59
## 141	141	Olympia, WA, United States	70.57
## 142	142	Saint Petersburg, FL, United States	70.49
## 143	143	Austin, TX, United States	70.49
## 144	144	Brisbane, Australia	70.46
## 146	146	Sliema, Malta	70.33
## 147	147	Rochester, NY, United States	70.25
## 148	148	Christchurch, New Zealand	70.23
## 149	149	Toronto, Canada	70.19
## 150	150	Orlando, FL, United States	70.18
## 151	151	Dunedin, New Zealand	70.16
## 152	152	Turku, Finland	70.13
## 153	153	Plymouth, United Kingdom	70.02
## 154	154	Swindon, United Kingdom	69.92
## 155	155	Canberra, Australia	69.88
## 156	156	Manchester, United Kingdom	69.86
## 157	157	Peoria, IL, United States	69.84
## 158	158	Gothenburg, Sweden	69.77
## 159	159	Cleveland, OH, United States	69.65
## 160	160	Vancouver, Canada	69.63
## 161	161	Limerick, Ireland	69.63
## 162	162	Bristol, United Kingdom	69.58
## 163	163	Brighton, United Kingdom	69.54
## 164	164	Bologna, Italy	69.50
## 165	165	York, United Kingdom	69.33
## 166	166	Karlsruhe, Germany	69.26
## 167	167	Raleigh, NC, United States	69.18
## 168	168	Bonn, Germany	69.14
## 169	169	Hobart, Australia	69.10
## 170	170	Arlington, TX, United States	69.07
## 171	171	Rome, Italy	69.03
## 172	172	Saint Louis, MO, United States	69.02
## 173	173	Bremen, Germany	68.93
## 174	174	Calgary, Canada	68.93
## 175	175	Milwaukee, WI, United States	68.81
## 176	176	Brampton, Canada	68.79
## 177	177	Nashville, TN, United States	68.78
## 178	178	Uppsala, Sweden	68.75
## 179	179	Tampa, FL, United States	68.61
## 180	180	Regina, Canada	68.46
## 181	181	Mannheim, Germany	68.35
## 182	182	Leeds, United Kingdom	68.26
## 183	183	Virginia Beach, VA, United States	67.86
## 184	184	Berlin, Germany	67.75
## 185	185	Lille, France	67.73
## 186	186	Syracuse, NY, United States	67.55
## 187	187	Stuttgart, Germany	67.46
## 188	188	Coquitlam, Canada	67.43
## 189	189	Red Deer, Canada	67.42
## 190	190	Cologne, Germany	67.36
## 191	191	Aachen, Germany	67.33
## 192	192	Tallahassee, FL, United States	67.24
## 193	193	Bakersfield, CA, United States	67.11
## 194	194	Ann Arbor, MI, United States	67.06
## 195	195	Nottingham, United Kingdom	67.05
## 196	196	Edmonton, Canada	67.03
## 197	197	Las Vegas, NV, United States	66.98
## 198	198	Columbus, OH, United States	66.90
## 199	199	Turin, Italy	66.68
## 200	200	Spokane, WA, United States	66.60

## 200	200	SPRINGFIELD, MA, United States	60.00
## 201	201	Kelowna, Canada	66.60
## 202	202	Exeter, United Kingdom	66.56
## 203	203	Glasgow, United Kingdom	66.50
## 204	204	Memphis, TN, United States	66.49
## 205	205	Kingston, Canada	66.45
## 206	206	Nuremberg, Germany	66.44
## 207	207	Coventry, United Kingdom	66.31
## 208	208	Columbia, SC, United States	66.23
## 209	209	Victoria, Canada	66.17
## 210	210	Malmo, Sweden	66.14
## 211	211	Salem, OR, United States	66.04
## 212	212	Leipzig, Germany	66.04
## 213	213	Dresden, Germany	65.92
## 214	214	Fort Wayne, IN, United States	65.88
## 215	215	Dayton, OH, United States	65.84
## 216	216	San Juan, Puerto Rico	65.79
## 217	217	Taipei, Taiwan	65.75
## 218	218	Kansas City, MO, United States	65.74
## 219	219	Leicester, United Kingdom	65.59
## 220	220	Oshawa, Canada	65.44
## 221	221	Nanaimo, BC, Canada	65.28
## 222	222	Fort Worth, TX, United States	65.19
## 223	223	Palma de Mallorca, Spain	65.17
## 224	224	Mississauga, Canada	65.08
## 225	225	Quebec City, Canada	65.07
## 226	226	Norwich, United Kingdom	64.95
## 227	227	Burnaby, Canada	64.94
## 228	228	Fayetteville, AR, United States	64.84
## 230	230	Derby, United Kingdom	64.70
## 231	231	Marseille, France	64.64
## 233	233	Hanover, Germany	64.57
## 234	234	Richmond, VA, United States	64.56
## 235	235	Gold Coast, Australia	64.53
## 236	236	Greensboro, NC, United States	64.46
## 237	237	Birmingham, United Kingdom	64.46
## 238	238	Windsor, Canada	64.42
## 239	239	Dallas, TX, United States	64.32
## 240	240	Albuquerque, NM, United States	64.32
## 241	241	Phoenix, AZ, United States	64.31
## 242	242	Southampton, United Kingdom	63.73
## 243	243	Gainesville, FL, United States	63.62
## 244	244	Montreal, Canada	63.52
## 245	245	Grand Rapids, MI, United States	63.47
## 246	246	Tucson, AZ, United States	63.35
## 247	247	Madison, WI, United States	63.30
## 248	248	Chattanooga, TN, United States	63.28
## 249	249	Fresno, CA, United States	63.25
## 250	250	Wichita, KS, United States	63.18
## 251	251	Winnipeg, Canada	63.15
## 252	252	Cagliari, Italy	63.15
## 253	253	Salt Lake City, UT, United States	62.94
## 254	254	Ottawa, Canada	62.88
## 255	255	Doha, Qatar	62.81
## 256	256	Detroit, MI, United States	62.77
## 257	257	Newcastle upon Tyne, United Kingdom	62.76
## 258	258	Tulsa, OK, United States	62.67
## 259	259	Cincinnati, OH, United States	62.65
## 260	260	Sheffield, United Kingdom	62.64
## 261	261	Belfast, United Kingdom	62.42
## 262	262	Lubbock, TX, United States	62.40
## 264	264	Des Moines, IA, United States	62.21
## 265	265	Houston, TX, United States	62.16
## 267	267	Cardiff, United Kingdom	62.12
## 268	268	Liverpool, United Kingdom	62.00
## 269	269	Abu Dhabi, United Arab Emirates	61.94
## 270	270	Oklahoma City, OK, United States	61.72
## 272	272	Moncton, Canada	61.15
## 274	274	Knoxville, TN, United States	60.97
## 276	276	Hamilton, Canada	60.75
## 277	277	Springfield, MO, United States	60.56
## 278	278	Vancouver, WA, United States	60.46
## 280	280	Toledo, OH, United States	60.35

## 281	281	Little Rock, AR, United States	60.31
## 282	282	Louisville, KY, United States	60.24
## 283	283	Madrid, Spain	60.12
## 284	284	Reno, NV, United States	59.84
## 285	285	Huntsville, AL, United States	59.80
## 286	286	Lexington, KY, United States	59.64
## 288	288	Boise, ID, United States	59.43
## 289	289	El Paso, TX, United States	59.37
## 290	290	Surrey, Canada	59.18
## 291	291	London, Canada	59.15
## 292	292	Abbotsford, Canada	58.95
## 293	293	Kitchener, Canada	58.93
## 294	294	San Antonio, TX, United States	58.12
## 315	315	Dubai, United Arab Emirates	53.32
## Rent.Index Cost.of.Living.Plus.Rent.Index Groceries.Index			
## 25	36.41	61.89	81.72
## 26	47.60	67.13	73.77
## 27	23.31	55.32	65.29
## 30	24.92	55.09	62.32
## 31	54.65	69.13	62.35
## 32	33.01	58.79	93.57
## 33	31.71	58.16	61.47
## 34	70.30	76.10	57.74
## 36	35.69	59.34	61.31
## 38	60.38	70.92	66.82
## 39	60.12	70.73	60.82
## 40	62.58	71.72	68.63
## 41	41.58	61.73	83.41
## 42	31.01	56.48	77.50
## 43	49.35	65.10	74.58
## 44	26.21	54.03	68.46
## 45	34.45	57.65	71.63
## 46	23.34	52.35	73.56
## 47	65.75	72.40	73.87
## 48	27.34	54.02	69.55
## 49	55.18	67.17	74.93
## 50	26.66	53.59	67.39
## 51	70.45	74.25	71.59
## 52	40.57	59.96	62.34
## 53	29.08	54.51	73.87
## 54	55.53	67.01	70.69
## 55	40.18	59.69	64.74
## 56	29.07	54.42	63.10
## 57	53.54	65.98	76.79
## 58	35.79	57.36	58.82
## 59	39.11	58.92	63.73
## 60	42.90	60.67	66.39
## 61	34.34	56.60	60.65
## 62	26.10	52.54	67.34
## 63	37.46	57.92	58.34
## 64	23.03	51.09	66.45
## 65	76.61	76.43	71.10
## 66	41.81	59.87	73.17
## 67	38.23	58.15	71.89
## 68	29.77	54.03	69.04
## 69	57.81	67.30	67.27
## 70	32.03	55.02	63.45
## 71	23.23	50.82	71.92
## 72	68.66	72.29	67.52
## 73	44.29	60.75	69.09
## 74	23.02	50.64	65.79
## 75	20.01	49.17	63.25
## 76	25.78	51.85	57.88
## 77	33.44	55.38	65.24
## 78	25.38	51.45	61.20
## 79	42.40	59.47	72.45
## 80	42.16	59.34	70.55
## 81	78.33	76.44	74.88
## 82	30.67	53.84	61.87
## 83	28.04	52.55	59.51
## 84	33.80	55.26	56.34
## 85	22.37	49.84	68.32
## 86	42.73	59.48	67.10

## 87	34.60	55.60	61.79
## 88	43.44	59.72	72.61
## 89	26.16	51.49	72.37
## 90	38.62	57.36	71.42
## 91	50.67	63.05	69.19
## 92	33.42	54.83	53.99
## 93	24.82	50.76	62.71
## 94	21.80	49.32	70.28
## 95	39.56	57.63	59.19
## 96	32.10	54.10	59.93
## 97	42.89	59.20	68.71
## 98	45.18	60.25	56.28
## 99	31.47	53.75	58.58
## 100	41.21	58.27	67.00
## 101	34.02	54.83	61.77
## 102	37.58	56.51	57.77
## 103	21.74	48.99	60.51
## 104	19.47	47.88	55.23
## 105	41.65	58.33	69.21
## 106	32.42	53.86	64.86
## 107	27.95	51.69	57.21
## 108	32.84	53.99	53.33
## 109	46.18	60.27	68.29
## 110	31.99	53.54	67.23
## 111	34.10	54.49	56.19
## 112	43.84	58.99	54.62
## 113	48.82	61.34	51.41
## 114	35.59	55.01	64.71
## 115	30.44	52.57	78.36
## 116	21.78	48.42	62.75
## 117	28.84	51.72	58.44
## 118	61.06	66.97	64.11
## 119	33.39	53.80	54.27
## 120	35.25	54.68	54.35
## 121	34.17	54.17	68.93
## 122	46.89	60.14	66.94
## 123	54.09	63.53	67.92
## 124	45.24	59.30	70.22
## 125	23.11	48.81	61.23
## 126	34.03	53.96	69.40
## 127	34.99	54.29	53.12
## 128	39.68	56.45	63.85
## 129	37.19	55.27	71.47
## 130	19.64	46.96	64.67
## 131	33.45	53.49	68.78
## 132	37.63	55.43	63.56
## 133	31.44	52.29	51.81
## 134	28.05	50.60	72.43
## 135	32.48	52.70	63.61
## 136	33.51	53.16	53.85
## 137	34.81	53.76	67.20
## 138	33.44	53.08	58.75
## 139	31.36	52.04	69.00
## 140	29.30	51.04	62.31
## 141	40.40	56.28	60.02
## 142	40.59	56.33	66.03
## 143	50.35	60.96	65.81
## 144	39.13	55.63	60.45
## 146	35.72	53.94	55.05
## 147	30.81	51.58	69.88
## 148	26.28	49.42	61.00
## 149	44.28	57.92	64.15
## 150	38.43	55.15	68.50
## 151	21.81	47.27	60.78
## 152	22.11	47.40	53.18
## 153	20.31	46.49	58.63
## 154	29.46	50.77	49.50
## 155	40.63	56.03	63.26
## 156	30.37	51.17	52.69
## 157	25.55	48.88	68.44
## 158	29.33	50.62	60.31
## 159	28.24	50.05	62.06
## 160	49.26	59.98	66.65

" "	"--"	"--"	"--"
## 161	28.14	49.99	60.78
## 162	36.53	53.93	52.44
## 163	42.42	56.70	52.95
## 164	24.03	47.98	54.96
## 165	28.87	50.18	55.98
## 166	21.71	46.75	52.43
## 167	36.18	53.56	71.88
## 168	27.28	49.32	52.20
## 169	27.95	49.62	64.66
## 170	30.98	51.04	64.58
## 171	36.69	53.72	55.28
## 172	29.42	50.28	65.14
## 173	21.86	46.65	53.13
## 174	29.85	50.43	60.75
## 175	35.57	53.07	63.74
## 176	28.91	49.91	68.60
## 177	49.17	59.50	64.10
## 178	25.43	48.24	58.12
## 179	39.54	54.85	65.38
## 180	28.00	49.31	66.75
## 181	22.17	46.49	52.00
## 182	28.05	49.23	53.36
## 183	35.84	52.70	62.06
## 184	31.64	50.65	52.31
## 185	22.98	46.55	52.70
## 186	33.60	51.48	63.81
## 187	33.30	51.29	49.06
## 188	35.02	52.09	66.05
## 189	23.58	46.66	55.68
## 190	29.64	49.51	51.53
## 191	22.76	46.23	52.03
## 192	26.47	47.94	71.30
## 193	28.95	49.05	63.16
## 194	47.59	57.84	60.70
## 195	23.63	46.50	54.03
## 196	29.22	49.13	60.51
## 197	29.55	49.27	59.56
## 198	36.92	52.71	58.94
## 199	20.97	45.04	52.98
## 200	28.33	48.49	59.19
## 201	33.08	50.73	62.58
## 202	29.55	49.04	48.27
## 203	27.49	48.04	51.88
## 204	26.58	47.60	59.36
## 205	26.88	47.72	64.50
## 206	24.08	46.39	50.10
## 207	26.92	47.66	52.61
## 208	27.73	48.01	65.60
## 209	38.10	52.88	65.05
## 210	26.09	47.18	56.60
## 211	28.93	48.48	61.63
## 212	19.98	44.24	50.44
## 213	21.68	44.98	50.52
## 214	21.74	44.98	70.07
## 215	21.97	45.07	62.60
## 216	24.43	46.21	59.19
## 217	22.74	45.39	73.78
## 218	30.53	49.07	58.43
## 219	22.41	45.15	51.01
## 220	27.37	47.42	55.97
## 221	24.29	45.88	68.45
## 222	35.53	51.15	56.86
## 223	27.12	47.16	50.72
## 224	35.79	51.22	58.39
## 225	16.10	41.89	62.78
## 226	23.69	45.42	48.98
## 227	40.95	53.59	58.52
## 228	25.90	46.41	61.15
## 230	19.76	43.43	51.11
## 231	23.63	45.23	54.31
## 233	22.82	44.80	53.06
## 234	35.24	50.68	63.54
-- --	-- --	-- --	-- --

## 235	37.37	51.68	59.94
## 236	27.34	46.89	63.03
## 237	30.50	48.38	48.03
## 238	21.98	44.33	51.65
## 239	43.15	54.30	58.50
## 240	27.29	46.79	64.42
## 241	33.65	49.79	56.58
## 242	31.44	48.45	48.32
## 243	29.02	47.24	60.52
## 244	25.25	45.40	60.69
## 245	31.04	48.12	55.26
## 246	23.63	44.55	52.48
## 247	37.52	51.09	56.66
## 248	29.58	47.33	57.19
## 249	30.12	47.57	54.68
## 250	23.45	44.38	57.30
## 251	23.70	44.48	57.33
## 252	19.23	42.36	55.09
## 253	35.80	50.10	55.93
## 254	30.26	47.44	54.70
## 255	56.39	59.77	51.33
## 256	34.22	49.25	56.21
## 257	22.89	43.89	45.04
## 258	26.87	45.72	59.49
## 259	31.03	47.68	52.40
## 260	23.00	43.88	49.09
## 261	22.62	43.58	50.78
## 262	24.28	44.35	56.80
## 264	33.57	48.66	57.09
## 265	43.11	53.14	54.36
## 267	28.79	46.34	52.30
## 268	24.72	44.35	44.70
## 269	58.43	60.28	50.11
## 270	25.72	44.68	60.18
## 272	17.69	40.58	54.08
## 274	28.75	45.72	59.45
## 276	26.34	44.46	53.08
## 277	18.66	40.73	60.68
## 278	35.97	48.87	50.54
## 280	21.26	41.84	50.89
## 281	26.40	44.26	55.44
## 282	26.86	44.44	53.87
## 283	31.59	46.62	45.69
## 284	38.03	49.51	51.96
## 285	28.65	45.06	58.83
## 286	24.86	43.17	54.50
## 288	30.85	45.90	50.93
## 289	22.16	41.76	54.07
## 290	30.36	45.54	51.61
## 291	23.08	42.08	47.61
## 292	25.01	42.89	54.08
## 293	25.38	43.05	51.13
## 294	31.26	45.41	55.20
## 315	49.32	51.42	37.47
## Restaurant.Price.Index Local.Purchasing.Power.Index			
## 25	54.41	113.09	
## 26	88.11	95.38	
## 27	112.90	114.26	
## 30	97.34	113.36	
## 31	87.71	98.88	
## 32	50.34	102.63	
## 33	95.15	116.80	
## 34	91.85	100.22	
## 36	94.99	108.83	
## 38	59.40	99.15	
## 39	87.98	89.32	
## 40	69.34	128.25	
## 41	72.82	84.71	
## 42	77.64	108.77	
## 43	74.75	109.34	
## 44	79.47	114.89	
## 45	78.53	93.47	
## 46	72.47	108.39	

## 47	73.72	135.16
## 48	72.77	96.07
## 49	77.97	128.82
## 50	80.73	99.34
## 51	81.71	114.51
## 52	85.86	93.67
## 53	83.57	99.44
## 54	78.52	133.70
## 55	85.51	115.83
## 56	88.19	70.47
## 57	68.35	112.76
## 58	84.91	102.30
## 59	84.93	125.69
## 60	65.02	103.52
## 61	85.41	85.39
## 62	77.60	83.45
## 63	88.94	103.12
## 64	74.72	105.57
## 65	83.14	170.91
## 66	78.69	76.97
## 67	66.74	114.28
## 68	84.70	112.81
## 69	81.89	89.99
## 70	87.07	100.24
## 71	60.92	100.33
## 72	91.99	124.41
## 73	77.91	145.88
## 74	75.80	100.44
## 75	77.18	77.62
## 76	88.45	94.77
## 77	79.28	139.93
## 78	86.36	97.30
## 79	85.71	122.77
## 80	82.50	119.13
## 81	54.05	76.49
## 82	71.50	95.54
## 83	80.36	96.92
## 84	84.44	93.41
## 85	46.37	102.10
## 86	70.76	131.85
## 87	81.23	125.99
## 88	73.78	119.38
## 89	65.25	103.89
## 90	71.47	130.05
## 91	71.60	126.03
## 92	81.15	111.02
## 93	70.81	94.37
## 94	81.11	96.78
## 95	84.57	74.87
## 96	72.83	104.75
## 97	77.01	127.77
## 98	80.50	114.57
## 99	90.89	121.22
## 100	86.02	106.74
## 101	75.27	94.56
## 102	74.67	109.85
## 103	72.30	80.96
## 104	86.23	100.60
## 105	76.67	142.25
## 106	72.71	119.67
## 107	90.52	128.24
## 108	67.20	115.58
## 109	75.64	133.75
## 110	68.26	127.17
## 111	83.88	121.84
## 112	86.14	106.28
## 113	77.46	87.88
## 114	78.11	122.21
## 115	67.68	99.50
## 116	71.65	104.62
## 117	81.94	96.13
## 118	79.21	144.91
## 119	79.83	112.68

" "	" .."	" .."
# #	120	70.09
# #	121	71.96
# #	122	73.06
# #	123	76.90
# #	124	74.59
# #	125	71.79
# #	126	69.34
# #	127	74.50
# #	128	64.54
# #	129	70.69
# #	130	71.20
# #	131	77.88
# #	132	79.19
# #	133	87.08
# #	134	61.05
# #	135	67.94
# #	136	66.51
# #	137	71.87
# #	138	80.86
# #	139	67.63
# #	140	72.75
# #	141	78.68
# #	142	72.96
# #	143	78.34
# #	144	69.33
# #	146	82.28
# #	147	71.98
# #	148	70.54
# #	149	67.53
# #	150	69.67
# #	151	64.07
# #	152	81.05
# #	153	71.32
# #	154	81.79
# #	155	70.06
# #	156	80.84
# #	157	63.92
# #	158	75.49
# #	159	69.68
# #	160	67.35
# #	161	67.61
# #	162	87.30
# #	163	78.93
# #	164	78.34
# #	165	78.14
# #	166	74.86
# #	167	66.40
# #	168	67.80
# #	169	76.92
# #	170	62.75
# #	171	78.14
# #	172	71.31
# #	173	67.53
# #	174	71.93
# #	175	71.41
# #	176	58.42
# #	177	76.79
# #	178	76.33
# #	179	72.99
# #	180	59.29
# #	181	66.93
# #	182	80.41
# #	183	71.73
# #	184	58.53
# #	185	66.87
# #	186	68.60
# #	187	64.14
# #	188	58.84
# #	189	65.18
# #	190	66.42
# #	191	59.44
# #	192	59.97
" "	-- --	-- --

## 193	70.58	151.58
## 194	58.50	128.99
## 195	66.60	106.22
## 196	69.57	129.45
## 197	72.20	144.40
## 198	66.04	128.77
## 199	72.24	86.70
## 200	68.65	124.45
## 201	61.82	108.98
## 202	78.62	87.24
## 203	75.35	121.47
## 204	70.42	125.07
## 205	60.41	113.98
## 206	66.17	120.91
## 207	68.35	138.99
## 208	67.08	124.84
## 209	59.95	106.89
## 210	72.21	107.14
## 211	63.28	125.24
## 212	57.36	90.74
## 213	56.77	131.77
## 214	63.82	124.37
## 215	64.97	91.21
## 216	56.46	110.36
## 217	32.95	95.59
## 218	68.12	138.60
## 219	71.76	107.34
## 220	68.51	119.92
## 221	58.51	100.45
## 222	70.27	140.43
## 223	66.04	78.81
## 224	60.01	112.72
## 225	60.07	140.18
## 226	76.45	92.06
## 227	59.61	151.02
## 228	67.22	109.58
## 230	67.14	146.98
## 231	63.64	92.65
## 233	60.00	152.96
## 234	62.47	132.62
## 235	64.12	129.83
## 236	61.80	133.53
## 237	80.25	106.94
## 238	68.38	109.87
## 239	68.02	153.42
## 240	63.21	128.27
## 241	72.47	146.15
## 242	70.79	139.02
## 243	58.47	106.34
## 244	61.07	117.12
## 245	71.44	129.66
## 246	63.98	122.68
## 247	65.73	144.61
## 248	60.41	124.02
## 249	76.08	120.12
## 250	64.33	135.99
## 251	58.50	115.79
## 252	64.01	88.55
## 253	66.10	150.76
## 254	62.10	144.70
## 255	61.18	139.76
## 256	51.65	97.41
## 257	70.56	133.83
## 258	62.36	129.54
## 259	63.41	137.31
## 260	71.97	119.46
## 261	77.19	100.69
## 262	64.34	135.19
## 264	63.36	128.68
## 265	72.49	155.88
## 267	67.16	116.48
## 268	67.48	121.31
## 269	63.20	116.42

```

## 270      56.84      136.21
## 272      60.71      112.73
## 274      59.43      116.61
## 276      62.20      127.16
## 277      61.21      102.88
## 278      61.81      153.07
## 280      55.69      125.57
## 281      63.52      144.07
## 282      66.45      123.93
## 283      64.44      91.36
## 284      62.27      136.81
## 285      60.20      162.04
## 286      60.08      141.91
## 288      63.79      120.44
## 289      59.41      131.70
## 290      57.55      93.91
## 291      63.25      118.79
## 292      59.78      111.27
## 293      58.73      129.74
## 294      52.09      150.96
## 315      54.61      153.68

```

```
#sqrt(rowSums(data[,3:8] - fitted(myKmean))^2)
```

Write up:

In order to discover strong patterns from our large data set, we conduct a principal component analysis. Moreover, to conduct the analysis, non-numeric data was removed as well as rank (since rank and cost of living index are 100% correlated). We begin our analysis by constructing a biplot (loading plot) to visualize how strongly each characteristic influences the first two principal components. Although the biplot is somewhat hard to read, we see that almost all variables are strongly influencing the second principal component, with the exception being Purchasing.Power.Index which is more evenly influencing both of the first two principal components. The biplot also shows us how characteristics correlate with one another, and so it seems purchasing power index has a low correlation with all the other variables, yet those variables are all highly correlated with one another. In an attempt to gain more information we plot a 2D-projection of all the principal components and realize very little useful information. To analyze our principal components further, we look at the summary statistics for our analysis to see which principal components we can toss out. By the Kaiser method ($SD > 1$) we should retain just one principal component. However if we wish to retain at least 90% of the variance in the data we should retain two principal components, which is supported by our scree plots. Therefore we interpret the weights of the first two principal components. Judging the first principal component, we notice high negative loadings on all the variables, meaning all variables are negatively correlates with each other. Thus the loadings on the first principal component seem to represent places where it is very expensive to live despite the low correlation between the various predictor variables. Furthermore, the loadings on the second principal component seem to represent places where it is very expensive to live yet your money goes a lot further in terms of purchasing power. Clearly, there is some distinct grouping in this data set. That is, cities are grouped based on some distinct characteristics contributing to their ranks. This is well visualized in our plotted projection of the retained components. Now that we have simplified our data and found some patterns, we are going to classify these "unique" cities into clusters using K-means for further understanding. First we need to determine the number of clusters (k) to use. Here we find k by plotting our within group sum of squares and finding the "elbow" in the plot. Examining our within group sum of squares plot we conclude a k equal to five should be used. Five is quite unexpected, since the plotted projection of the retained components seemingly foreshadows two distinct groups. Next, we go ahead and run our k-means classifier using our chosen value for k , and plot the results. Our retained PC's k-means cluster projection plot beautifully depicts five distinct groups. Finally we print out our groups and interpret the results of our k-means. These results are incredibly interesting. Broadly, the groups seem to be representative of regions of similar levels of wealth. This makes perfect sense, since you would expect cities in regions/nations of similar wealth to have a similar cost of living. Strikingly, however, cities seem to be slightly grouped by the similar economic policy of their respective country. Our first cluster for instance, contains a high volume of the total cities from Switzerland, Bermuda, Iceland, and Norway, all of whom are famous for having significantly developed service sectors, especially their respective banking industries. This trend continues throughout the groups. Lastly, due to the large variance in cluster size, within groups sum of squares was not an accurate measure of performance, though when calculating the maximum euclidean distance from the centroids, we received similar values for all but one group.

Random Forest and Neural Network Regression

First draft Random Forest with no training/testing data separation

```
library(randomForest)
```

```
## Warning: package 'randomForest' was built under R version 3.4.4
```

```
## randomForest 4.6-14
```

`## Type rfNews() to see new features/changes/bug fixes.`

```
##  
## Attaching package: 'randomForest'
```

```
## The following object is masked from 'package:ggplot2':
```

井井

margin

```
cityRate1 = randomForest(Cost.of.Living.Index ~ Rank + Rent.Index + Cost.of.Living.Plus.Rent.Index + Groceries.Index + Restaurant.Price.Index + Local.Purchasing.Power.Index, data = data, importance = TRUE, ntree = 500, mtry = 2) #limit randomise variable for forest  
cityRate1
```

```
##  
## Call:  
## randomForest(formula = Cost.of.Living.Index ~ Rank + Rent.Index + Cost.of.Living.Plus.Rent.Index +  
Groceries.Index + Restaurant.Price.Index + Local.Purchasing.Power.Index, data = data, importance = TRUE  
, ntree = 500, mtry = 2)  
##           Type of random forest: regression  
##           Number of trees: 500  
## No. of variables tried at each split: 2  
##  
##           Mean of squared residuals: 1.586516  
##           % Var explained: 99.6
```

```
importance(cityRate1)
```

```

##                                     %IncMSE IncNodePurity
## Rank                               26.913689    77952.8499
## Rent.Index                          10.203268   11153.4281
## Cost.of.Living.Plus.Rent.Index     17.310715   51061.0545
## Groceries.Index                     15.532442   40390.3542
## Restaurant.Price.Index              14.534015   31795.2511
## Local.Purchasing.Power.Index       6.984636    677.7968

```

```
summary(cityRate1)
```

	Length	Class	Mode
## call	6	-none-	call
## type	1	-none-	character
## predicted	536	-none-	numeric
## mse	500	-none-	numeric
## rsq	500	-none-	numeric
## oob.times	536	-none-	numeric
## importance	12	-none-	numeric
## importanceSD	6	-none-	numeric
## localImportance	0	-none-	NULL
## proximity	0	-none-	NULL
## ntree	1	-none-	numeric
## mtry	1	-none-	numeric
## forest	11	-none-	list
## coefs	0	-none-	NULL
## y	536	-none-	numeric
## test	0	-none-	NULL
## inbag	0	-none-	NULL
## terms	3	terms	call

```
prediction1 = predict(cityRate1, data)
solution1 = data.frame(City = data$City, Cost.of.Living.Index = prediction1)
solution1
```

City Cost.of.Living.Index

## 1	Hamilton, Bermuda	127.41206
## 2	Zurich, Switzerland	126.98194
## 3	Basel, Switzerland	125.00242
## 4	Lausanne, Switzerland	119.82280
## 5	Bern, Switzerland	116.26170
## 6	Geneva, Switzerland	119.26418
## 7	Reykjavik, Iceland	111.93610
## 8	Lugano, Switzerland	111.87094
## 9	Stavanger, Norway	109.00475
## 10	Oslo, Norway	105.82958
## 11	Bergen, Norway	101.94797
## 12	New York, NY, United States	99.76272
## 13	Trondheim, Norway	100.24034
## 14	San Francisco, CA, United States	98.39653
## 15	Honolulu, HI, United States	94.52752
## 16	Anchorage, AK, United States	93.62732
## 17	Brooklyn, NY, United States	91.09982
## 18	Washington, DC, United States	88.90063
## 19	Santa Rosa, CA, United States	87.34150
## 20	Copenhagen, Denmark	87.80705
## 21	Charleston, SC, United States	87.09285
## 22	Luxembourg, Luxembourg	86.44859
## 23	Bellevue, WA, United States	85.51103
## 24	Seattle, WA, United States	85.88889
## 25	Tokyo, Japan	83.09603
## 26	Paris, France	83.68454
## 27	Odense, Denmark	84.55387
## 28	Berkeley, CA, United States	85.65315
## 29	Jersey City, NJ, United States	85.07813
## 30	Aalborg, Denmark	81.93423
## 31	Amsterdam, Netherlands	81.89656
## 32	Seoul, South Korea	81.75789
## 33	Arhus, Denmark	81.43718
## 34	London, United Kingdom	80.75546
## 35	Oakland, CA, United States	81.49285
## 36	Helsinki, Finland	80.92762
## 37	Boston, MA, United States	80.81146
## 38	Singapore, Singapore	79.74701
## 39	Dublin, Ireland	80.54777
## 40	Sydney, Australia	79.60450
## 41	Hartford, CT, United States	80.91091
## 42	Albany, NY, United States	79.11913
## 43	Philadelphia, PA, United States	79.09637
## 44	Tampere, Finland	78.61469
## 45	Milton Keynes, United Kingdom	78.19281
## 46	Grenoble, France	77.61729
## 47	Irvine, CA, United States	78.38139
## 48	Lyon, France	77.75320
## 49	Long Beach, CA, United States	78.03003
## 50	Linz, Austria	77.51731
## 51	Los Angeles, CA, United States	77.97383
## 52	Tel Aviv-Yafo, Israel	77.29822
## 53	Barrie, Canada	77.46293
## 54	Chicago, IL, United States	77.29212
## 55	Stockholm, Sweden	77.10927
## 56	Florence, Italy	76.97345
## 57	Boulder, CO, United States	77.37075
## 58	The Hague (Den Haag), Netherlands	76.51000
## 59	Reading, United Kingdom	76.57707
## 60	Auckland, New Zealand	76.14149
## 61	Jerusalem, Israel	76.50359
## 62	Bordeaux, France	76.25039
## 63	Utrecht, Netherlands	76.30416
## 64	Toulouse, France	75.82289
## 65	San Jose, CA, United States	76.68177
## 66	Burlington, VT, United States	76.26784
## 67	Pittsburgh, PA, United States	75.91152
## 68	Nice, France	75.95871
## 69	Miami, FL, United States	76.36846
## 70	Brussels, Belgium	75.85405
## 71	Graz, Austria	75.03983
## 72	Santa Barbara, CA, United States	76.82575
## 73	Sacramento, CA, United States	75.34513

## 15	SACRAMENTO, CA, United States	70.34015
## 74	Strasbourg, France	75.19221
## 75	Genoa, Italy	74.76054
## 76	Gent, Belgium	74.95447
## 77	Perth, Australia	74.75849
## 78	Antwerp, Belgium	74.92371
## 79	Portland, ME, United States	74.90684
## 80	West Palm Beach, FL, United States	74.77740
## 81	Hong Kong, Hong Kong	75.71255
## 82	Innsbruck, Austria	74.31923
## 83	Leuven, Belgium	74.39491
## 84	Leiden, Netherlands	74.35589
## 85	Osaka, Japan	73.16713
## 86	Melbourne, Australia	74.27834
## 87	Bath, United Kingdom	74.50210
## 88	Everett, WA, United States	74.47842
## 89	Saskatoon, Canada	74.18625
## 90	Tacoma, WA, United States	74.13872
## 91	Portland, OR, United States	74.30231
## 92	Rotterdam, Netherlands	73.74794
## 93	Montpellier, France	73.85323
## 94	St. John's, NL, Canada	74.15560
## 95	Milan, Italy	73.97799
## 96	Maastricht, Netherlands	73.79132
## 97	Baltimore, MD, United States	73.86615
## 98	Munich, Germany	73.77635
## 99	Espoo, Finland	73.81713
## 100	New Orleans, LA, United States	73.94830
## 101	Galway, Ireland	73.68561
## 102	Cork, Ireland	73.53507
## 103	Padova, Italy	73.09378
## 104	Haifa, Israel	72.79958
## 105	Charlotte, NC, United States	73.24371
## 106	Burlington, Canada	73.10137
## 107	Aberdeen, United Kingdom	73.01478
## 108	Dusseldorf, Germany	72.62219
## 109	Minneapolis, MN, United States	72.92552
## 110	Adelaide, Australia	72.67219
## 111	Eindhoven, Netherlands	72.89095
## 112	Cambridge, United Kingdom	72.83399
## 113	Oxford, United Kingdom	72.23921
## 114	Darwin, Australia	72.45754
## 115	Eugene, OR, United States	73.21414
## 116	Nantes, France	72.17729
## 117	Groningen, Netherlands	72.50146
## 118	San Diego, CA, United States	72.97978
## 119	Ramat Gan, Israel	72.17400
## 120	Hamburg, Germany	72.09231
## 121	Bellingham, WA, United States	72.12690
## 122	Atlanta, GA, United States	72.03743
## 123	Denver, CO, United States	72.44953
## 124	Saint Paul, MN, United States	72.23577
## 125	Hamilton, New Zealand	71.72857
## 126	Birmingham, AL, United States	71.80132
## 127	Frankfurt, Germany	71.63831
## 128	Wellington, New Zealand	71.30979
## 129	Asheville, NC, United States	71.75946
## 130	Trieste, Italy	71.39737
## 131	Fort Myers, FL, United States	71.71484
## 132	Newcastle, Australia	71.46656
## 133	Portsmouth, United Kingdom	71.04043
## 134	Halifax, Canada	70.90607
## 135	Vienna, Austria	70.75145
## 136	Heidelberg, Germany	70.45969
## 137	Indianapolis, IN, United States	70.79772
## 138	Edinburgh, United Kingdom	70.96488
## 139	Jacksonville, FL, United States	70.55341
## 140	Buffalo, NY, United States	70.57187
## 141	Olympia, WA, United States	70.58589
## 142	Saint Petersburg, FL, United States	70.56312
## 143	Austin, TX, United States	70.58423
## 144	Brisbane, Australia	70.36494
## 145	Male, Maldives	69.62966

## 146	Sliema, Malta	70.44442
## 147	Rochester, NY, United States	70.49979
## 148	Christchurch, New Zealand	70.05708
## 149	Toronto, Canada	70.33757
## 150	Orlando, FL, United States	70.48021
## 151	Dunedin, New Zealand	69.72480
## 152	Turku, Finland	69.81085
## 153	Plymouth, United Kingdom	69.87452
## 154	Swindon, United Kingdom	69.74465
## 155	Canberra, Australia	69.77822
## 156	Manchester, United Kingdom	69.87495
## 157	Peoria, IL, United States	69.66678
## 158	Gothenburg, Sweden	69.77949
## 159	Cleveland, OH, United States	69.71517
## 160	Vancouver, Canada	70.25878
## 161	Limerick, Ireland	69.71365
## 162	Bristol, United Kingdom	69.96574
## 163	Brighton, United Kingdom	69.86983
## 164	Bologna, Italy	69.51935
## 165	York, United Kingdom	69.44871
## 166	Karlsruhe, Germany	69.02641
## 167	Raleigh, NC, United States	69.37312
## 168	Bonn, Germany	69.00617
## 169	Hobart, Australia	69.32950
## 170	Arlington, TX, United States	68.84682
## 171	Rome, Italy	69.33667
## 172	Saint Louis, MO, United States	68.97036
## 173	Bremen, Germany	68.91573
## 174	Calgary, Canada	68.91708
## 175	Milwaukee, WI, United States	69.03895
## 176	Brampton, Canada	69.02001
## 177	Nashville, TN, United States	69.26849
## 178	Uppsala, Sweden	68.79336
## 179	Tampa, FL, United States	68.98862
## 180	Regina, Canada	68.55178
## 181	Mannheim, Germany	68.31155
## 182	Leeds, United Kingdom	68.47694
## 183	Virginia Beach, VA, United States	67.86948
## 184	Berlin, Germany	67.46907
## 185	Lille, France	67.71313
## 186	Syracuse, NY, United States	67.89935
## 187	Stuttgart, Germany	67.01813
## 188	Coquitlam, Canada	67.41216
## 189	Red Deer, Canada	67.19093
## 190	Cologne, Germany	67.28599
## 191	Aachen, Germany	66.88747
## 192	Tallahassee, FL, United States	67.17345
## 193	Bakersfield, CA, United States	67.08276
## 194	Ann Arbor, MI, United States	67.10476
## 195	Nottingham, United Kingdom	67.11182
## 196	Edmonton, Canada	67.07351
## 197	Las Vegas, NV, United States	67.02126
## 198	Columbus, OH, United States	66.89510
## 199	Turin, Italy	66.55604
## 200	Spokane, WA, United States	66.56097
## 201	Kelowna, Canada	66.76512
## 202	Exeter, United Kingdom	66.39631
## 203	Glasgow, United Kingdom	66.50770
## 204	Memphis, TN, United States	66.47428
## 205	Kingston, Canada	66.39095
## 206	Nuremberg, Germany	66.33477
## 207	Coventry, United Kingdom	66.37245
## 208	Columbia, SC, United States	66.36337
## 209	Victoria, Canada	66.59364
## 210	Malmo, Sweden	66.23593
## 211	Salem, OR, United States	66.04445
## 212	Leipzig, Germany	65.49996
## 213	Dresden, Germany	65.71352
## 214	Fort Wayne, IN, United States	65.84871
## 215	Dayton, OH, United States	65.79360
## 216	San Juan, Puerto Rico	65.49961
## 217	Taipei, Taiwan	65.36464
## 218	Kansas City, MO, United States	65.70779

## 219	Leicester, United Kingdom	65.42341
## 220	Oshawa, Canada	65.52501
## 221	Nanaimo, BC, Canada	65.46862
## 222	Fort Worth, TX, United States	65.28142
## 223	Palma de Mallorca, Spain	65.20499
## 224	Mississauga, Canada	65.26632
## 225	Quebec City, Canada	64.42656
## 226	Norwich, United Kingdom	64.90609
## 227	Burnaby, Canada	64.91131
## 228	Fayetteville, AR, United States	65.13595
## 229	Naples, Italy	63.98890
## 230	Derby, United Kingdom	64.48589
## 231	Marseille, France	64.63494
## 232	Kingston, Jamaica	63.77772
## 233	Hanover, Germany	64.48676
## 234	Richmond, VA, United States	64.98956
## 235	Gold Coast, Australia	64.94101
## 236	Greensboro, NC, United States	64.55888
## 237	Birmingham, United Kingdom	64.67446
## 238	Windsor, Canada	64.44382
## 239	Dallas, TX, United States	64.98246
## 240	Albuquerque, NM, United States	64.52050
## 241	Phoenix, AZ, United States	64.40494
## 242	Southampton, United Kingdom	63.81532
## 243	Gainesville, FL, United States	63.80958
## 244	Montreal, Canada	63.56625
## 245	Grand Rapids, MI, United States	63.69338
## 246	Tucson, AZ, United States	63.21996
## 247	Madison, WI, United States	63.56204
## 248	Chattanooga, TN, United States	63.30306
## 249	Fresno, CA, United States	63.81083
## 250	Wichita, KS, United States	63.10132
## 251	Winnipeg, Canada	63.13878
## 252	Cagliari, Italy	62.85427
## 253	Salt Lake City, UT, United States	63.18906
## 254	Ottawa, Canada	62.82702
## 255	Doha, Qatar	63.26906
## 256	Detroit, MI, United States	62.75877
## 257	Newcastle upon Tyne, United Kingdom	62.31438
## 258	Tulsa, OK, United States	62.75459
## 259	Cincinnati, OH, United States	62.66243
## 260	Sheffield, United Kingdom	62.74851
## 261	Belfast, United Kingdom	62.99184
## 262	Lubbock, TX, United States	62.52795
## 263	Taichung, Taiwan	61.77048
## 264	Des Moines, IA, United States	62.51755
## 265	Houston, TX, United States	63.36193
## 266	Barcelona, Spain	62.01661
## 267	Cardiff, United Kingdom	62.63438
## 268	Liverpool, United Kingdom	61.84959
## 269	Abu Dhabi, United Arab Emirates	63.12416
## 270	Oklahoma City, OK, United States	61.81479
## 271	Palermo, Italy	60.93986
## 272	Moncton, Canada	61.01361
## 273	Nicosia, Cyprus	61.09188
## 274	Knoxville, TN, United States	61.15104
## 275	Beirut, Lebanon	60.21434
## 276	Hamilton, Canada	60.71004
## 277	Springfield, MO, United States	61.06075
## 278	Vancouver, WA, United States	60.59597
## 279	Athens, Greece	59.28089
## 280	Toledo, OH, United States	60.04521
## 281	Little Rock, AR, United States	60.51593
## 282	Louisville, KY, United States	60.93239
## 283	Madrid, Spain	60.51159
## 284	Reno, NV, United States	60.58451
## 285	Huntsville, AL, United States	60.27256
## 286	Lexington, KY, United States	59.74517
## 287	Port of Spain, Trinidad And Tobago	59.35143
## 288	Boise, ID, United States	59.96830
## 289	El Paso, TX, United States	59.57358
## 290	Surrey, Canada	59.58670
## 291	Toronto, Canada	59.32988

## 291	Bonbon, Canada	59.52900
## 292	Abbotsford, Canada	59.30204
## 293	Kitchener, Canada	59.22452
## 294	San Antonio, TX, United States	58.74306
## 295	Montevideo, Uruguay	58.05436
## 296	Zaragoza (Saragossa), Spain	58.07346
## 297	Thessaloniki, Greece	57.12082
## 298	San Jose, Costa Rica	57.85657
## 299	Limassol, Cyprus	58.03171
## 300	Accra, Ghana	57.32064
## 301	Kaohsiung, Taiwan	56.06781
## 302	Ljubljana, Slovenia	56.08727
## 303	Valencia, Spain	55.22659
## 304	Manama, Bahrain	55.63212
## 305	Tallinn, Estonia	54.99208
## 306	Panama City, Panama	55.81164
## 307	Amman, Jordan	54.49869
## 308	Seville (Sevilla), Spain	54.58853
## 309	Larnaca, Cyprus	54.37315
## 310	Lisbon, Portugal	53.98422
## 311	Alicante, Spain	54.00460
## 312	Split, Croatia	53.38860
## 313	Bangkok, Thailand	53.20521
## 314	Sharjah, United Arab Emirates	53.23370
## 315	Dubai, United Arab Emirates	54.33863
## 316	Rijeka, Croatia	52.33886
## 317	Zagreb, Croatia	52.20375
## 318	Makati, Philippines	51.23037
## 319	Coimbra, Portugal	50.85606
## 320	Muscat, Oman	51.73641
## 321	Al Khobar, Saudi Arabia	50.82139
## 322	Funchal, Portugal	50.44808
## 323	Riga, Latvia	50.25105
## 324	Porto, Portugal	50.30981
## 325	Shanghai, China	51.76786
## 326	Granada, Spain	50.43295
## 327	Malaga, Spain	50.64922
## 328	Santiago, Chile	50.65069
## 329	Jeddah (Jiddah), Saudi Arabia	49.61942
## 330	Addis Ababa, Ethiopia	50.21621
## 331	Tartu, Estonia	49.63523
## 332	Havana, Cuba	48.05666
## 333	Quito, Ecuador	49.46383
## 334	Maribor, Slovenia	48.83078
## 335	Santa Cruz de Tenerife, Spain	49.13502
## 336	Riyadh, Saudi Arabia	48.70586
## 337	Bratislava, Slovakia	48.58093
## 338	Braga, Portugal	48.43102
## 339	Ad Dammam, Saudi Arabia	48.34871
## 340	Vilnius, Lithuania	48.21014
## 341	Prague, Czech Republic	48.16557
## 342	Bandar Seri Begawan, Brunei	48.47808
## 343	Harare, Zimbabwe	47.60459
## 344	Las Palmas de Gran Canaria, Spain	47.77642
## 345	San Salvador, El Salvador	47.34090
## 346	Guayaquil, Ecuador	47.25221
## 347	Baghdad, Iraq	47.10658
## 348	Phuket, Thailand	47.15587
## 349	Klaipeda, Lithuania	46.67158
## 350	Kosice, Slovakia	46.40665
## 351	Pretoria, South Africa	45.96629
## 352	Santo Domingo, Dominican Republic	45.84758
## 353	Kaunas, Lithuania	45.69901
## 354	Windhoek, Namibia	46.23604
## 355	Phnom Penh, Cambodia	45.65492
## 356	Johannesburg, South Africa	45.67001
## 357	Osijek, Croatia	44.22639
## 358	Brno, Czech Republic	44.88088
## 359	Moscow, Russia	44.84748
## 360	Selangor, Malaysia	44.10621
## 361	Campinas, Brazil	43.97773
## 362	Guatemala City, Guatemala	44.46347
## 363	Dar es Salaam, Tanzania	44.00861

## 364	Petaling Jaya, Malaysia	44.28117
## 365	Sao Paulo, Brazil	43.95434
## 366	Rio de Janeiro, Brazil	43.71884
## 367	Brasilia, Brazil	44.35686
## 368	Penang, Malaysia	43.82264
## 369	Beijing, China	44.93812
## 370	Budapest, Hungary	43.67249
## 371	Gdansk, Poland	42.89925
## 372	Johor Bahru, Malaysia	43.19220
## 373	Pattaya, Thailand	42.86228
## 374	Irbil, Iraq	42.41447
## 375	Kuala Lumpur, Malaysia	42.59999
## 376	Warsaw, Poland	42.65125
## 377	Shenzhen, China	43.30336
## 378	Kuching, Malaysia	41.21497
## 379	Kota Kinabalu, Malaysia	42.13162
## 380	Peterborough, United Kingdom	41.61236
## 381	Nairobi, Kenya	42.00714
## 382	Jakarta, Indonesia	41.86113
## 383	Cape Town, South Africa	42.67229
## 384	Bali, Indonesia	41.46844
## 385	Lima, Peru	41.56094
## 386	Olomouc, Czech Republic	41.43719
## 387	Gdynia, Poland	41.11060
## 388	Recife, Brazil	40.39905
## 389	Porto Alegre, Brazil	40.11121
## 390	Ostrava, Czech Republic	40.34089
## 391	Chiang Mai, Thailand	40.92082
## 392	Belo Horizonte, Brazil	40.02858
## 393	Durban, South Africa	40.62802
## 394	Bucharest, Romania	40.43236
## 395	Sofia, Bulgaria	40.36701
## 396	Guangzhou, China	40.99614
## 397	Florianopolis, Brazil	40.13104
## 398	Belgrade, Serbia	39.95131
## 399	Wroclaw, Poland	40.33291
## 400	Podgorica, Montenegro	39.72085
## 401	Krakow (Cracow), Poland	39.73012
## 402	Port Elizabeth, South Africa	39.45391
## 403	Saint Petersburg, Russia	39.86446
## 404	Sarajevo, Bosnia And Herzegovina	39.00157
## 405	Varna, Bulgaria	38.96599
## 406	Poznan, Poland	39.04387
## 407	Constanta, Romania	38.56452
## 408	Rabat, Morocco	38.52791
## 409	Buenos Aires, Argentina	38.69484
## 410	Bydgoszcz, Poland	38.48754
## 411	Szeged, Hungary	38.36727
## 412	Hanoi, Vietnam	38.39045
## 413	Curitiba, Brazil	37.83413
## 414	Timisoara, Romania	38.35665
## 415	Cluj-Napoca, Romania	38.33733
## 416	Debrecen, Hungary	37.90963
## 417	Suzhou, China	38.42683
## 418	Manila, Philippines	37.95618
## 419	Istanbul, Turkey	37.92339
## 420	Ho Chi Minh City, Vietnam	38.33947
## 421	Katowice, Poland	37.44571
## 422	Szczecin, Poland	37.18320
## 423	Chelyabinsk, Russia	37.21639
## 424	Tirana, Albania	37.10484
## 425	Lodz, Poland	37.15645
## 426	Brasov, Romania	37.19041
## 427	Banja Luka, Bosnia And Herzegovina	36.14932
## 428	Iasi, Romania	36.54432
## 429	Plovdiv, Bulgaria	36.29766
## 430	Cebu, Philippines	36.24426
## 431	Yekaterinburg, Russia	36.51520
## 432	Burgas, Bulgaria	36.09780
## 433	Chengdu, China	36.32537
## 434	Cuenca, Ecuador	36.16816
## 435	Lublin, Poland	36.10381
## 436	Colombo, Sri Lanka	36.10338

## 437	Samara, Russia	35.96180
## 438	Arad, Romania	35.70537
## 439	Surabaya, Indonesia	35.51891
## 440	Casablanca, Morocco	35.82791
## 441	Sibiu, Romania	35.77076
## 442	Bandung, Indonesia	35.48803
## 443	Paramaribo, Suriname	35.48510
## 444	Kaliningrad, Russia	35.38677
## 445	Novi Sad, Serbia	35.01693
## 446	Bogota, Colombia	35.03375
## 447	Yogyakarta, Indonesia	35.03588
## 448	Astana, Kazakhstan	35.18862
## 449	Ankara, Turkey	34.54518
## 450	Skopje, Macedonia	34.56061
## 451	Oradea, Romania	34.34695
## 452	Nis, Serbia	33.69531
## 453	Tehran, Iran	34.52349
## 454	Mexico City, Mexico	34.83677
## 455	Ulaanbaatar, Mongolia	34.27350
## 456	Monterrey, Mexico	34.41662
## 457	Minsk, Belarus	34.04643
## 458	Nizhny Novgorod, Russia	34.08355
## 459	Barranquilla, Colombia	33.77038
## 460	Izmir, Turkey	33.91164
## 461	Medellin, Colombia	33.98490
## 462	Antalya, Turkey	33.80350
## 463	Chisinau, Moldova	33.61274
## 464	Bursa, Turkey	33.39400
## 465	Kazan, Russia	33.91063
## 466	Novosibirsk, Russia	33.95217
## 467	Davao, Philippines	33.53669
## 468	Asuncion, Paraguay	33.53336
## 469	Algiers, Algeria	33.81490
## 470	Lagos, Nigeria	34.75175
## 471	Dumaguete, Philippines	33.54157
## 472	Yerevan, Armenia	33.16588
## 473	Tijuana, Mexico	32.88031
## 474	Almaty, Kazakhstan	32.49004
## 475	Rostov-na-donu, Russia	32.55195
## 476	Krasnodar, Russia	32.57752
## 477	Kathmandu, Nepal	31.19392
## 478	Craiova, Romania	31.64310
## 479	Voronezh, Russia	31.76475
## 480	Quezon City, Philippines	31.58947
## 481	Dhaka, Bangladesh	31.70874
## 482	Kampala, Uganda	31.53582
## 483	Guadalajara, Mexico	31.63811
## 484	Cancun, Mexico	31.54395
## 485	Queretaro, Mexico	31.37250
## 486	Gurgaon, India	30.73212
## 487	Cali, Colombia	30.27864
## 488	Tbilisi, Georgia	30.26830
## 489	Odessa, Ukraine	30.11027
## 490	Tashkent, Uzbekistan	30.17879
## 491	Puerto Vallarta, Mexico	30.64817
## 492	Kiev, Ukraine	29.94708
## 493	Baku, Azerbaijan	29.88229
## 494	Merida, Mexico	29.02831
## 495	Mumbai, India	30.96550
## 496	Puebla, Mexico	28.70904
## 497	Delhi, India	28.95598
## 498	Noida, India	28.44432
## 499	Dnipro, Ukraine	28.03252
## 500	Caracas, Venezuela	28.27932
## 501	Pune, India	27.60634
## 502	Lviv, Ukraine	27.44438
## 503	Ludhiana, India	26.83082
## 504	Bangalore, India	27.09653
## 505	Kharkiv, Ukraine	26.93260
## 506	Tunis, Tunisia	26.26434
## 507	Pristina, Kosovo (Disputed Territory)	26.24613
## 508	Chandigarh, India	25.99243
## 509	Talaimahad, Pakistan	25.96252

## 509	Islamabad, Pakistan	25.9000
## 510	Lahore, Pakistan	25.96024
## 511	Cairo, Egypt	25.85683
## 512	Jaipur, India	25.17892
## 513	Indore, India	25.32121
## 514	Thane, India	25.84083
## 515	Chennai, India	25.60197
## 516	Kolkata, India	25.03302
## 517	Lucknow (Lakhnau), India	24.64763
## 518	Goa, India	24.79853
## 519	Ahmedabad, India	24.41087
## 520	Alexandria, Egypt	24.05478
## 521	Karachi, Pakistan	24.20715
## 522	Sumy, Ukraine	23.48322
## 523	Surat, India	23.82096
## 524	Hyderabad, India	23.84720
## 525	Nagpur, India	22.76399
## 526	Guwahati, India	22.55710
## 527	Mysore, India	22.53296
## 528	Bhubaneswar, India	22.45826
## 529	Mangalore, India	22.43153
## 530	Coimbatore, India	22.42338
## 531	Bhopal, India	22.29332
## 532	Vadodara, India	22.34692
## 533	Kochi, India	21.72453
## 534	Visakhapatnam, India	21.96622
## 535	Navi Mumbai, India	20.08061
## 536	Thiruvananthapuram, India	19.92843

Here we notice that the MSE of the random forest is quite low. The results of classifying the cities by cost of living is pretty accurate in many cases. Of course this is due to the fact that we are using the whole data set for both training the model and running the model.

Random Forest Analysis with test and training to predict Cost of Living

```
library(randomForest)
trainindex <- sample(1:nrow(data), 200)
train <- droplevels(data[trainindex, ])
test <- droplevels(data[-trainindex, ])
#cityRate2 = randomForest(Cost.of.Living.Index ~ Rank + Rent.Index + Cost.of.Living.Plus.Rent.Index + Groceries.Index + Restaurant.Price.Index + Local.Purchasing.Power.Index, data = train, ntree = 500, mtry = 2, importance = TRUE)#limit randomise variable for forest
cityRate2 = randomForest(Cost.of.Living.Index ~ Rank + Cost.of.Living.Plus.Rent.Index + Groceries.Index + Restaurant.Price.Index, data = train, ntree = 100, mtry = 2, importance = TRUE, do.trace=T)#limit randomise variable for forest, shown that rent and local purchasing power were not very important at all compared to other variables
```

##		Out-of-bag	
## Tree		MSE	%Var(y)
## 1		15.33	4.31
## 2		10.66	3.00
## 3		7.978	2.24
## 4		7.721	2.17
## 5		6.738	1.90
## 6		6.56	1.85
## 7		7.385	2.08
## 8		7.03	1.98
## 9		8.426	2.37
## 10		7.11	2.00
## 11		6.892	1.94
## 12		6.444	1.81
## 13		6.218	1.75
## 14		5.919	1.67
## 15		5.667	1.59
## 16		5.724	1.61
## 17		5.028	1.41
## 18		4.882	1.37
## 19		4.889	1.38
## 20		4.784	1.35
## 21		4.767	1.34
..

##	22		4.988	1.40	
##	23		4.792	1.35	
##	24		4.618	1.30	
##	25		4.388	1.23	
##	26		4.404	1.24	
##	27		4.611	1.30	
##	28		4.592	1.29	
##	29		4.449	1.25	
##	30		4.462	1.26	
##	31		4.498	1.27	
##	32		4.682	1.32	
##	33		4.647	1.31	
##	34		4.582	1.29	
##	35		4.787	1.35	
##	36		4.76	1.34	
##	37		4.738	1.33	
##	38		4.707	1.32	
##	39		4.696	1.32	
##	40		4.673	1.32	
##	41		4.693	1.32	
##	42		4.681	1.32	
##	43		4.7	1.32	
##	44		4.736	1.33	
##	45		4.722	1.33	
##	46		4.711	1.33	
##	47		4.586	1.29	
##	48		4.591	1.29	
##	49		4.583	1.29	
##	50		4.503	1.27	
##	51		4.625	1.30	
##	52		4.603	1.30	
##	53		4.582	1.29	
##	54		4.578	1.29	
##	55		4.796	1.35	
##	56		4.834	1.36	
##	57		4.812	1.35	
##	58		4.842	1.36	
##	59		4.839	1.36	
##	60		4.8	1.35	
##	61		4.654	1.31	
##	62		4.64	1.31	
##	63		4.586	1.29	
##	64		4.579	1.29	
##	65		4.508	1.27	
##	66		4.51	1.27	
##	67		4.517	1.27	
##	68		4.506	1.27	
##	69		4.509	1.27	
##	70		4.562	1.28	
##	71		4.581	1.29	
##	72		4.571	1.29	
##	73		4.533	1.28	
##	74		4.486	1.26	
##	75		4.479	1.26	
##	76		4.502	1.27	
##	77		4.501	1.27	
##	78		4.505	1.27	
##	79		4.415	1.24	
##	80		4.422	1.24	
##	81		4.479	1.26	
##	82		4.491	1.26	
##	83		4.5	1.27	
##	84		4.489	1.26	
##	85		4.498	1.27	
##	86		4.469	1.26	
##	87		4.474	1.26	
##	88		4.548	1.28	
##	89		4.556	1.28	
##	90		4.542	1.28	
##	91		4.557	1.28	
##	92		4.594	1.29	
##	93		4.596	1.29	
##	94		4.616	1.30	

```

##   95 |    4.593    1.29 |
##   96 |    4.587    1.29 |
##   97 |    4.587    1.29 |
##   98 |    4.563    1.28 |
##   99 |    4.59     1.29 |
##  100 |    4.659    1.31 |

```

```
cityRate2
```

```

##
## Call:
## randomForest(formula = Cost.of.Living.Index ~ Rank + Cost.of.Living.Plus.Rent.Index +      Groceries.Ind
ex + Restaurant.Price.Index, data = train, ntree = 100,      mtry = 2, importance = TRUE, do.trace = T)
##
##           Type of random forest: regression
##           Number of trees: 100
## No. of variables tried at each split: 2
##
##           Mean of squared residuals: 4.658718
##           % Var explained: 98.69

```

```
importance(cityRate2)
```

	%IncMSE	IncNodePurity
## Rank	12.571083	33650.779
## Cost.of.Living.Plus.Rent.Index	7.990728	22340.411
## Groceries.Index	5.038499	10561.654
## Restaurant.Price.Index	3.830426	3277.884

```
summary(cityRate2)
```

	Length	Class	Mode
## call	7	-none-	call
## type	1	-none-	character
## predicted	200	-none-	numeric
## mse	100	-none-	numeric
## rsq	100	-none-	numeric
## oob.times	200	-none-	numeric
## importance	8	-none-	numeric
## importanceSD	4	-none-	numeric
## localImportance	0	-none-	NULL
## proximity	0	-none-	NULL
## ntree	1	-none-	numeric
## mtry	1	-none-	numeric
## forest	11	-none-	list
## coefs	0	-none-	NULL
## y	200	-none-	numeric
## test	0	-none-	NULL
## inbag	0	-none-	NULL
## terms	3	terms	call

```

prediction2 = predict(cityRate2, test)
#prediction
solution2 = data.frame(City = test$City, Cost.of.Living.Index = prediction2)
solution2

```

	City	Cost.of.Living.Index
## 1	Hamilton, Bermuda	104.03236
## 2	Zurich, Switzerland	104.03236
## 3	Basel, Switzerland	104.03236
## 4	Lausanne, Switzerland	104.03236
## 6	Geneva, Switzerland	104.03236
## 7	Reykjavik, Iceland	102.90031
## 8	Lugano, Switzerland	102.90031
## 9	Stavanger, Norway	100.13967
## 10	Oslo, Norway	99.47534
## 11	Bergen, Norway	97.72010
## 12	New York, NY, United States	98.31244
...		-- -----

## 14	San Francisco, CA, United States	97.65965
## 16	Anchorage, AK, United States	91.52978
## 17	Brooklyn, NY, United States	95.49747
## 18	Washington, DC, United States	92.30344
## 19	Santa Rosa, CA, United States	89.50353
## 20	Copenhagen, Denmark	89.24929
## 21	Charleston, SC, United States	87.29524
## 23	Bellevue, WA, United States	84.14185
## 24	Seattle, WA, United States	86.70293
## 26	Paris, France	82.50453
## 27	Odense, Denmark	85.11805
## 29	Jersey City, NJ, United States	85.96688
## 30	Aalborg, Denmark	81.97470
## 32	Seoul, South Korea	84.45318
## 33	Arhus, Denmark	81.56025
## 34	London, United Kingdom	81.40358
## 35	Oakland, CA, United States	81.96229
## 36	Helsinki, Finland	80.22119
## 37	Boston, MA, United States	80.78837
## 39	Dublin, Ireland	80.27090
## 41	Hartford, CT, United States	82.11122
## 43	Philadelphia, PA, United States	78.86869
## 45	Milton Keynes, United Kingdom	78.35432
## 47	Irvine, CA, United States	78.82873
## 48	Lyon, France	77.77949
## 51	Los Angeles, CA, United States	78.34391
## 52	Tel Aviv-Yafo, Israel	76.79567
## 53	Barrie, Canada	77.45305
## 55	Stockholm, Sweden	76.60722
## 56	Florence, Italy	76.91077
## 58	The Hague (Den Haag), Netherlands	76.24380
## 60	Auckland, New Zealand	75.79287
## 61	Jerusalem, Israel	76.05803
## 64	Toulouse, France	75.65156
## 67	Pittsburgh, PA, United States	75.78153
## 68	Nice, France	76.57109
## 69	Miami, FL, United States	76.28273
## 72	Santa Barbara, CA, United States	77.62234
## 73	Sacramento, CA, United States	75.51519
## 74	Strasbourg, France	74.48188
## 75	Genoa, Italy	74.10887
## 80	West Palm Beach, FL, United States	75.03441
## 82	Innsbruck, Austria	74.18050
## 85	Osaka, Japan	73.42993
## 86	Melbourne, Australia	74.41385
## 88	Everett, WA, United States	74.73016
## 89	Saskatoon, Canada	74.22029
## 90	Tacoma, WA, United States	74.41668
## 91	Portland, OR, United States	74.62424
## 94	St. John's, NL, Canada	73.98430
## 96	Maastricht, Netherlands	73.71090
## 97	Baltimore, MD, United States	74.24824
## 99	Espoo, Finland	74.54327
## 101	Galway, Ireland	73.84499
## 102	Cork, Ireland	73.66031
## 103	Padova, Italy	73.08508
## 105	Charlotte, NC, United States	73.84381
## 106	Burlington, Canada	73.26976
## 107	Aberdeen, United Kingdom	73.94920
## 108	Dusseldorf, Germany	72.51661
## 110	Adelaide, Australia	72.85524
## 112	Cambridge, United Kingdom	73.05487
## 113	Oxford, United Kingdom	72.96034
## 114	Darwin, Australia	72.86884
## 116	Nantes, France	72.01849
## 117	Groningen, Netherlands	72.70068
## 119	Ramat Gan, Israel	72.27245
## 120	Hamburg, Germany	72.18772
## 121	Bellingham, WA, United States	72.85749
## 122	Atlanta, GA, United States	72.28870
## 123	Denver, CO, United States	73.01208
## 124	Saint Paul, MN, United States	72.51831
## 126	Birmingham, AL, United States	71.80205

## 127	Frankfurt, Germany	71.05667
## 128	Wellington, New Zealand	70.28482
## 129	Asheville, NC, United States	71.55008
## 130	Trieste, Italy	70.55674
## 131	Fort Myers, FL, United States	71.49963
## 132	Newcastle, Australia	71.00180
## 134	Halifax, Canada	70.02871
## 135	Vienna, Austria	70.40006
## 136	Heidelberg, Germany	69.65867
## 138	Edinburgh, United Kingdom	70.56909
## 139	Jacksonville, FL, United States	70.34468
## 140	Buffalo, NY, United States	70.29411
## 143	Austin, TX, United States	70.40685
## 144	Brisbane, Australia	70.04270
## 149	Toronto, Canada	69.89328
## 150	Orlando, FL, United States	70.66464
## 151	Dunedin, New Zealand	68.40566
## 154	Swindon, United Kingdom	69.35422
## 155	Canberra, Australia	69.76497
## 157	Peoria, IL, United States	68.79248
## 158	Gothenburg, Sweden	69.71944
## 162	Bristol, United Kingdom	69.75989
## 163	Brighton, United Kingdom	69.61314
## 164	Bologna, Italy	69.14430
## 165	York, United Kingdom	69.15231
## 166	Karlsruhe, Germany	68.68930
## 170	Arlington, TX, United States	68.22934
## 172	Saint Louis, MO, United States	69.02321
## 176	Brampton, Canada	68.77261
## 178	Uppsala, Sweden	68.63182
## 180	Regina, Canada	68.20732
## 181	Mannheim, Germany	68.03884
## 183	Virginia Beach, VA, United States	68.35326
## 187	Stuttgart, Germany	66.64349
## 189	Red Deer, Canada	67.11470
## 190	Cologne, Germany	67.32092
## 191	Aachen, Germany	66.35946
## 192	Tallahassee, FL, United States	66.74491
## 193	Bakersfield, CA, United States	67.41509
## 194	Ann Arbor, MI, United States	66.66783
## 196	Edmonton, Canada	67.10056
## 197	Las Vegas, NV, United States	67.29387
## 198	Columbus, OH, United States	66.55040
## 199	Turin, Italy	66.23837
## 200	Spokane, WA, United States	66.44899
## 201	Kelowna, Canada	66.03472
## 204	Memphis, TN, United States	66.37594
## 205	Kingston, Canada	65.59831
## 208	Columbia, SC, United States	66.31834
## 210	Malmo, Sweden	66.30709
## 211	Salem, OR, United States	65.46990
## 212	Leipzig, Germany	64.36551
## 213	Dresden, Germany	64.51276
## 216	San Juan, Puerto Rico	64.89743
## 221	Nanaimo, BC, Canada	65.19104
## 222	Fort Worth, TX, United States	65.64619
## 223	Palma de Mallorca, Spain	65.50244
## 226	Norwich, United Kingdom	64.61817
## 228	Fayetteville, AR, United States	65.58823
## 229	Naples, Italy	63.58837
## 231	Marseille, France	64.55103
## 232	Kingston, Jamaica	62.95247
## 233	Hanover, Germany	64.37431
## 237	Birmingham, United Kingdom	64.62973
## 238	Windsor, Canada	64.59054
## 239	Dallas, TX, United States	65.19157
## 241	Phoenix, AZ, United States	64.60788
## 243	Gainesville, FL, United States	63.95667
## 244	Montreal, Canada	64.08488
## 245	Grand Rapids, MI, United States	64.20381
## 246	Tucson, AZ, United States	63.47436
## 247	Madison, WI, United States	64.02380
## 248	Chattanooga, TN, United States	63.12476

## 248	Chattanooga, TN, United States	55.12170
# # 249	Fresno, CA, United States	63.74212
# # 250	Wichita, KS, United States	62.81417
# # 251	Winnipeg, Canada	62.03058
# # 252	Cagliari, Italy	62.40669
# # 254	Ottawa, Canada	62.42389
# # 256	Detroit, MI, United States	61.70124
# # 258	Tulsa, OK, United States	62.56967
# # 261	Belfast, United Kingdom	63.22099
# # 262	Lubbock, TX, United States	62.50871
# # 263	Taichung, Taiwan	61.47106
# # 267	Cardiff, United Kingdom	62.98387
# # 269	Abu Dhabi, United Arab Emirates	63.12627
# # 270	Oklahoma City, OK, United States	61.19552
# # 271	Palermo, Italy	60.71524
# # 272	Moncton, Canada	60.81166
# # 274	Knoxville, TN, United States	60.73575
# # 275	Beirut, Lebanon	59.86382
# # 276	Hamilton, Canada	60.48480
# # 278	Vancouver, WA, United States	61.29843
# # 279	Athens, Greece	57.43206
# # 280	Toledo, OH, United States	59.57928
# # 281	Little Rock, AR, United States	60.27400
# # 283	Madrid, Spain	60.83777
# # 284	Reno, NV, United States	61.09048
# # 286	Lexington, KY, United States	59.65141
# # 287	Port of Spain, Trinidad And Tobago	58.53581
# # 293	Kitchener, Canada	58.94516
# # 295	Montevideo, Uruguay	58.08831
# # 296	Zaragoza (Saragossa), Spain	58.04704
# # 297	Thessaloniki, Greece	55.60286
# # 299	Limassol, Cyprus	58.19133
# # 303	Valencia, Spain	54.98044
# # 304	Manama, Bahrain	57.47329
# # 305	Tallinn, Estonia	54.05103
# # 306	Panama City, Panama	57.68228
# # 307	Amman, Jordan	53.91286
# # 308	Seville (Sevilla), Spain	54.37064
# # 309	Larnaca, Cyprus	53.90266
# # 311	Alicante, Spain	53.43095
# # 313	Bangkok, Thailand	55.77512
# # 315	Dubai, United Arab Emirates	56.76962
# # 318	Makati, Philippines	51.91504
# # 322	Funchal, Portugal	49.88548
# # 323	Riga, Latvia	48.65663
# # 324	Porto, Portugal	50.05340
# # 325	Shanghai, China	53.48444
# # 326	Granada, Spain	49.31267
# # 330	Addis Ababa, Ethiopia	51.18411
# # 331	Tartu, Estonia	49.05638
# # 332	Havana, Cuba	46.03940
# # 333	Quito, Ecuador	50.94840
# # 334	Maribor, Slovenia	47.43576
# # 335	Santa Cruz de Tenerife, Spain	48.54857
# # 336	Riyadh, Saudi Arabia	48.51464
# # 337	Bratislava, Slovakia	48.59864
# # 339	Ad Dammam, Saudi Arabia	46.68961
# # 340	Vilnius, Lithuania	46.93245
# # 341	Prague, Czech Republic	48.05017
# # 342	Bandar Seri Begawan, Brunei	48.92199
# # 343	Harare, Zimbabwe	46.91242
# # 345	San Salvador, El Salvador	48.43129
# # 346	Guayaquil, Ecuador	47.01021
# # 347	Baghdad, Iraq	46.21447
# # 349	Klaipeda, Lithuania	44.99345
# # 350	Kosice, Slovakia	45.61954
# # 351	Pretoria, South Africa	45.19160
# # 352	Santo Domingo, Dominican Republic	44.46692
# # 353	Kaunas, Lithuania	44.09563
# # 355	Phnom Penh, Cambodia	47.18939
# # 357	Osijek, Croatia	43.43119
# # 358	Brno, Czech Republic	45.30322
# # 359	Moscow, Russia	45.87213

## 360	Selangor, Malaysia	43.54554
## 361	Campinas, Brazil	43.20627
## 364	Petaling Jaya, Malaysia	43.99786
## 367	Brasilia, Brazil	43.43004
## 368	Penang, Malaysia	44.18023
## 370	Budapest, Hungary	43.42781
## 371	Gdansk, Poland	42.88627
## 373	Pattaya, Thailand	43.85470
## 377	Shenzhen, China	44.90151
## 379	Kota Kinabalu, Malaysia	42.36568
## 381	Nairobi, Kenya	42.05067
## 383	Cape Town, South Africa	44.51920
## 384	Bali, Indonesia	42.65253
## 387	Gdynia, Poland	41.33786
## 388	Recife, Brazil	40.87580
## 389	Porto Alegre, Brazil	40.62212
## 390	Ostrava, Czech Republic	40.65931
## 391	Chiang Mai, Thailand	42.64141
## 392	Belo Horizonte, Brazil	40.14269
## 393	Durban, South Africa	40.46790
## 394	Bucharest, Romania	40.45230
## 395	Sofia, Bulgaria	39.75071
## 396	Guangzhou, China	41.25306
## 397	Florianopolis, Brazil	39.32208
## 399	Wroclaw, Poland	40.08035
## 400	Podgorica, Montenegro	39.36841
## 401	Krakow (Cracow), Poland	39.58986
## 402	Port Elizabeth, South Africa	39.33117
## 406	Poznan, Poland	39.20816
## 407	Constanta, Romania	38.22172
## 408	Rabat, Morocco	39.01396
## 409	Buenos Aires, Argentina	38.96663
## 410	Bydgoszcz, Poland	38.95252
## 411	Szeged, Hungary	37.83932
## 413	Curitiba, Brazil	37.28064
## 414	Timisoara, Romania	38.69028
## 417	Suzhou, China	39.27982
## 418	Manila, Philippines	38.59029
## 419	Istanbul, Turkey	38.18434
## 420	Ho Chi Minh City, Vietnam	38.57153
## 421	Katowice, Poland	37.84372
## 422	Szczecin, Poland	37.58042
## 424	Tirana, Albania	37.41716
## 425	Lodz, Poland	37.48019
## 426	Brasov, Romania	37.12035
## 427	Banja Luka, Bosnia And Herzegovina	35.98841
## 428	Iasi, Romania	36.89030
## 429	Plovdiv, Bulgaria	36.20130
## 430	Cebu, Philippines	35.93109
## 431	Yekaterinburg, Russia	36.49554
## 432	Burgas, Bulgaria	35.90275
## 433	Chengdu, China	36.37540
## 436	Colombo, Sri Lanka	36.04821
## 437	Samara, Russia	36.23845
## 439	Surabaya, Indonesia	35.60134
## 440	Casablanca, Morocco	36.59775
## 441	Sibiu, Romania	35.60108
## 442	Bandung, Indonesia	35.29545
## 446	Bogota, Colombia	35.30284
## 447	Yogyakarta, Indonesia	35.05345
## 449	Ankara, Turkey	34.48987
## 450	Skopje, Macedonia	34.55490
## 451	Oradea, Romania	34.06943
## 452	Nis, Serbia	33.34527
## 453	Tehran, Iran	35.79493
## 454	Mexico City, Mexico	35.99141
## 460	Izmir, Turkey	33.85714
## 463	Chisinau, Moldova	33.55206
## 464	Bursa, Turkey	33.09792
## 465	Kazan, Russia	33.93267
## 466	Novosibirsk, Russia	34.07051
## 467	Davao, Philippines	33.27286
## 468	Asuncion, Paraguay	33.01683

## 470	Lagos, Nigeria	35.85992
## 472	Yerevan, Armenia	32.86295
## 476	Krasnodar, Russia	32.45217
## 477	Kathmandu, Nepal	31.39274
## 478	Craiova, Romania	31.34190
## 480	Quezon City, Philippines	31.05018
## 485	Queretaro, Mexico	31.77539
## 487	Cali, Colombia	30.44753
## 489	Odessa, Ukraine	29.73155
## 494	Merida, Mexico	28.67106
## 496	Puebla, Mexico	28.13502
## 497	Delhi, India	29.68644
## 499	Dnipro, Ukraine	27.61716
## 500	Caracas, Venezuela	28.74864
## 501	Pune, India	27.93417
## 502	Lviv, Ukraine	27.28263
## 503	Ludhiana, India	26.35986
## 506	Tunis, Tunisia	25.43594
## 508	Chandigarh, India	26.04387
## 510	Lahore, Pakistan	25.69624
## 512	Jaipur, India	25.34751
## 513	Indore, India	24.72951
## 518	Goa, India	25.33686
## 519	Ahmedabad, India	24.70326
## 520	Alexandria, Egypt	23.54235
## 521	Karachi, Pakistan	24.01317
## 522	Sumy, Ukraine	21.85227
## 523	Surat, India	23.02095
## 527	Mysore, India	22.38407
## 528	Bhubaneswar, India	22.34519
## 529	Mangalore, India	22.48082
## 530	Coimbatore, India	22.36722
## 531	Bhopal, India	21.40214
## 532	Vadodara, India	21.99751

Here we implement the idea of having two separate datasets by splitting the data in train and test. This produces a bigger MSE and a bit less accuracy however it performs well at classifying unseen data with a cost of living and is still viable at classifying for cost of living each city. As this is a Random Forest algorithm, cross validation is unnecessary for overfitting problem due to the OOB error estimate as it is tested internally. We can also see from the commented out model that rent and local purchasing power were ineffective for the model so we decided to leave them out.

Neural Net Analysis

Here we build our neural network to try and analyze the data. We build the model with the full dataset first here. We have to first normalize the data.

```
library(NeuralNetTools)

## Warning: package 'NeuralNetTools' was built under R version 3.4.4

library(neuralnet)

## Warning: package 'neuralnet' was built under R version 3.4.4

nums = unlist(lapply(data, is.numeric))
dataNums = data[, nums]
scar <- apply(dataNums, 2, function(v) (v-min(v)) / (max(v)-min(v)))
ind <- sample(1:nrow(scar), 300)
train <- scar[ind, ]
test <- scar[-ind, ]
nn = neuralnet(Cost.of.Living.Index ~ Rank + Cost.of.Living.Plus.Rent.Index + Groceries.Index + Restaurant.P
rice.Index, data=scar, hidden=c(5,3), linear.output = TRUE)
nn$result.matrix
```

```

## [,1]
## error 0.020307853
## reached.threshold 0.009143724
## steps 767.000000000
## Intercept.to.1layhid1 -0.110891100
## Rank.to.1layhid1 1.841907099
## Cost.of.Living.Plus.Rent.Index.to.1layhid1 -0.736582303
## Groceries.Index.to.1layhid1 -1.484949063
## Restaurant.Price.Index.to.1layhid1 0.574919356
## Intercept.to.1layhid2 -0.290268527
## Rank.to.1layhid2 1.076804470
## Cost.of.Living.Plus.Rent.Index.to.1layhid2 -1.899135650
## Groceries.Index.to.1layhid2 -1.557892751
## Restaurant.Price.Index.to.1layhid2 -1.244089645
## Intercept.to.1layhid3 4.698671247
## Rank.to.1layhid3 0.745957867
## Cost.of.Living.Plus.Rent.Index.to.1layhid3 -2.865393266
## Groceries.Index.to.1layhid3 -6.172097642
## Restaurant.Price.Index.to.1layhid3 -3.005127313
## Intercept.to.1layhid4 -2.288680551
## Rank.to.1layhid4 -20.627020477
## Cost.of.Living.Plus.Rent.Index.to.1layhid4 -0.683558029
## Groceries.Index.to.1layhid4 1.036948723
## Restaurant.Price.Index.to.1layhid4 1.755113581
## Intercept.to.1layhid5 -0.894689628
## Rank.to.1layhid5 -0.919745950
## Cost.of.Living.Plus.Rent.Index.to.1layhid5 -0.381917632
## Groceries.Index.to.1layhid5 1.148948433
## Restaurant.Price.Index.to.1layhid5 1.424561188
## Intercept.to.2layhid1 0.031033814
## 1layhid1.to.2layhid1 1.845423760
## 1layhid2.to.2layhid1 1.888443301
## 1layhid3.to.2layhid1 -1.991515450
## 1layhid4.to.2layhid1 -0.641293760
## 1layhid5.to.2layhid1 -0.124361091
## Intercept.to.2layhid2 -1.993918611
## 1layhid1.to.2layhid2 -2.421733319
## 1layhid2.to.2layhid2 -1.599396199
## 1layhid3.to.2layhid2 0.186642670
## 1layhid4.to.2layhid2 3.118298756
## 1layhid5.to.2layhid2 1.500980215
## Intercept.to.2layhid3 0.147514217
## 1layhid1.to.2layhid3 0.433538961
## 1layhid2.to.2layhid3 1.746232285
## 1layhid3.to.2layhid3 -0.504038074
## 1layhid4.to.2layhid3 -0.320427369
## 1layhid5.to.2layhid3 -1.510386090
## Intercept.to.Cost.of.Living.Index 0.869978586
## 2layhid1.to.Cost.of.Living.Index -0.209994841
## 2layhid2.to.Cost.of.Living.Index 0.843154780
## 2layhid3.to.Cost.of.Living.Index -0.963293971

```

```

plot(nn)
summary(nn)

```

	Length	Class	Mode
## call	5	-none-	call
## response	536	-none-	numeric
## covariate	2144	-none-	numeric
## model.list	2	-none-	list
## err.fct	1	-none-	function
## act.fct	1	-none-	function
## linear.output	1	-none-	logical
## data	7	data.frame	list
## exclude	0	-none-	NULL
## net.result	1	-none-	list
## weights	1	-none-	list
## generalized.weights	1	-none-	list
## startweights	1	-none-	list
## result.matrix	50	-none-	numeric

We see a low error rate of .02964 from the neural network when using the full dataset to complete its task. This is quite respectable but we want to know if we are overfitting which is quite possible. Below we implement the same neural network but with a test and train separation

Using test data for accuracy rate

```
nn2 = neuralnet(Cost.of.Living.Index ~ Rank + Cost.of.Living.Plus.Rent.Index + Groceries.Index + Restaurant.Price.Index, data=train, hidden=c(5,3), linear.output = TRUE)
nn.results <- compute(nn2, test)
result <- nn.results$net.result
original_values <- max.col(scar)
results <- max.col(result)
mean(results == original_values) #accuracy rate
```

```
## Warning in results == original_values: longer object length is not a
## multiple of shorter object length
```

```
## [1] 0.4570896
```

```
sum((compute(nn2, test[,-2])$net.result-test[,2])^2)
```

```
## [1] 0.03471869
```

The result of accuracy now for the neural network is at almost 46%. This shows to be very low. We want to see if we can make this any better. Therefore we perform K-Fold CV on the neural net below to see if there is significantly better at building the neural network to get more accurate results

K-Fold - Neural Net

```
# 10 fold cross validation
k <- 10
# Results from cv
outs <- NULL
# Train test split proportions
proportion <- 0.95 # Set to 0.995 for LOOCV

for(i in 1:k)
{
  index <- sample(1:nrow(scar), round(proportion*nrow(scar)))
  train_cv <- scar[index, ]
  test_cv <- scar[-index, ]
  nn_cv <- neuralnet(Cost.of.Living.Index ~ Rank + Rent.Index + Cost.of.Living.Plus.Rent.Index + Groceries.Index + Restaurant.Price.Index + Local.Purchasing.Power.Index,
                      data = train,
                      hidden = c(13, 10, 3),
                      act.fct = "logistic",
                      linear.output = FALSE)

  # Compute predictions
  pr.nn <- compute(nn_cv, test)
  # Extract results
  pr.nn_ <- pr.nn$net.result
  # Accuracy (test set)
  original_values <- max.col(test)
  pr.nn_2 <- max.col(pr.nn_)
  outs[i] <- mean(pr.nn_2 == original_values)
}
outs
```

```
## [1] 0.4491525 0.4491525 0.4491525 0.4491525 0.4491525 0.4491525 0.4491525
## [8] 0.4491525 0.4491525 0.4491525
```

```
mean(outs)
```

```
## [1] 0.4491525
```

After performing the CV we realize that the neural network is about average of 47% accurate which is almost exactly of what we get above. Therefore this neural network would not be a very good choice to use to predict Cost of Living index