Playground

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Playground

```
require(gtrendsR)
```

```
## Loading required package: gtrendsR
```

```
require(ggplot2)
```

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

```
require(dplyr)
```

```
## Loading required package: dplyr
```

```
##
## Attaching package: 'dplyr'
```

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

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

Making Dataframes

This gives us a master dataframe of search frequencies of "depression" over the past 12 months in the US which relate for sure to mental health. We can take different dataframes using "$": see the dataframe for details.

```
trend<-gtrends("depression",c("US"),time="today 12-m",category=437)
trend
```

```
## $interest_over_time
##          date hits    keyword geo gprop category
## 1  2016-10-23   76 depression  US   web      437
## 2  2016-10-30   83 depression  US   web      437
## 3  2016-11-06   67 depression  US   web      437
## 4  2016-11-13   70 depression  US   web      437
## 5  2016-11-20   59 depression  US   web      437
## 6  2016-11-27   75 depression  US   web      437
## 7  2016-12-04   80 depression  US   web      437
## 8  2016-12-11   73 depression  US   web      437
## 9  2016-12-18   62 depression  US   web      437
## 10 2016-12-25   68 depression  US   web      437
## 11 2017-01-01   69 depression  US   web      437
## 12 2017-01-08   73 depression  US   web      437
## 13 2017-01-15   75 depression  US   web      437
```

```
## 14 2017-01-22   85 depression  US   web      437
## 15 2017-01-29   73 depression  US   web      437
## 16 2017-02-05   70 depression  US   web      437
## 17 2017-02-12   66 depression  US   web      437
## 18 2017-02-19   68 depression  US   web      437
## 19 2017-02-26   68 depression  US   web      437
## 20 2017-03-05   73 depression  US   web      437
## 21 2017-03-12   72 depression  US   web      437
## 22 2017-03-19   73 depression  US   web      437
## 23 2017-03-26   74 depression  US   web      437
## 24 2017-04-02   74 depression  US   web      437
## 25 2017-04-09   74 depression  US   web      437
## 26 2017-04-16   78 depression  US   web      437
## 27 2017-04-23   78 depression  US   web      437
## 28 2017-04-30   73 depression  US   web      437
## 29 2017-05-07   77 depression  US   web      437
## 30 2017-05-14   74 depression  US   web      437
## 31 2017-05-21   75 depression  US   web      437
## 32 2017-05-28   66 depression  US   web      437
## 33 2017-06-04   64 depression  US   web      437
## 34 2017-06-11   64 depression  US   web      437
## 35 2017-06-18   62 depression  US   web      437
## 36 2017-06-25   62 depression  US   web      437
## 37 2017-07-02   64 depression  US   web      437
## 38 2017-07-09   63 depression  US   web      437
## 39 2017-07-16   65 depression  US   web      437
## 40 2017-07-23   68 depression  US   web      437
## 41 2017-07-30   63 depression  US   web      437
## 42 2017-08-06   67 depression  US   web      437
## 43 2017-08-13   61 depression  US   web      437
## 44 2017-08-20  100 depression  US   web      437
## 45 2017-08-27   73 depression  US   web      437
## 46 2017-09-03   60 depression  US   web      437
## 47 2017-09-10   67 depression  US   web      437
## 48 2017-09-17   72 depression  US   web      437
## 49 2017-09-24   71 depression  US   web      437
## 50 2017-10-01   70 depression  US   web      437
## 51 2017-10-08   82 depression  US   web      437
##
## $interest_by_region
##                location hits    keyword geo gprop
## 1         West Virginia  100 depression  US   web
## 2          North Dakota   97 depression  US   web
## 3                  Utah   94 depression  US   web
## 4               Vermont   92 depression  US   web
## 5                 Maine   92 depression  US   web
## 6              Kentucky   91 depression  US   web
## 7                 Idaho   90 depression  US   web
## 8               Indiana   89 depression  US   web
## 9          Pennsylvania   88 depression  US   web
## 10             Michigan   88 depression  US   web
## 11                 Iowa   86 depression  US   web
## 12        New Hampshire   86 depression  US   web
## 13              Montana   86 depression  US   web
```

```
## 14          South Dakota   86 depression  US   web
## 15            New Mexico   86 depression  US   web
## 16           Connecticut   86 depression  US   web
## 17          Rhode Island   85 depression  US   web
## 18             Minnesota   85 depression  US   web
## 19                Alaska   85 depression  US   web
## 20         Massachusetts   84 depression  US   web
## 21                  Ohio   84 depression  US   web
## 22              Oklahoma   84 depression  US   web
## 23             Wisconsin   83 depression  US   web
## 24              Delaware   82 depression  US   web
## 25              Arkansas   82 depression  US   web
## 26                Oregon   82 depression  US   web
## 27              Maryland   82 depression  US   web
## 28              Missouri   81 depression  US   web
## 29            Washington   81 depression  US   web
## 30             Louisiana   80 depression  US   web
## 31              Illinois   80 depression  US   web
## 32              Nebraska   79 depression  US   web
## 33               Alabama   79 depression  US   web
## 34             Tennessee   79 depression  US   web
## 35              Virginia   79 depression  US   web
## 36                Kansas   78 depression  US   web
## 37               Wyoming   78 depression  US   web
## 38              Colorado   78 depression  US   web
## 39           Mississippi   77 depression  US   web
## 40        South Carolina   77 depression  US   web
## 41        North Carolina   77 depression  US   web
## 42               Arizona   76 depression  US   web
## 43            New Jersey   76 depression  US   web
## 44            California   75 depression  US   web
## 45              New York   73 depression  US   web
## 46                Hawaii   72 depression  US   web
## 47                 Texas   72 depression  US   web
## 48               Georgia   72 depression  US   web
## 49 District of Columbia   69 depression  US   web
## 50                Nevada   69 depression  US   web
## 51               Florida   68 depression  US   web
##
## $interest_by_dma
##                                                location hits
## 1                                       North Platte NE  100
## 2                           Bluefield-Beckley-Oak Hill WV   95
## 3                                    Clarksburg-Weston WV   93
## 4                             Wheeling WV-Steubenville OH   88
## 5                                           Eureka CA   88
## 6                                             Erie PA   87
## 7                                   Sherman TX-Ada OK   84
## 8                                          Lansing MI   84
## 9                                     Harrisonburg VA   83
## 10                                          Alpena MI   83
## 11                                    Great Falls MT   82
## 12                                     Binghamton NY   82
## 13                           Idaho Falls-Pocatello ID   82
```

```
## 14                                    Fargo-Valley City ND   81
## 15                                            Rockford IL   81
## 16                                              Helena MT   80
## 17                                 Flint-Saginaw-Bay City MI   80
## 18                            Quincy IL-Hannibal MO-Keokuk IA   80
## 19                                         Butte-Bozeman MT   80
## 20                                              Elmira NY   80
## 21                                 Charleston-Huntington WV   80
## 22                                    Duluth MN-Superior WI   80
## 23                                 Ottumwa IA-Kirksville MO   79
## 24                                              Topeka KS   79
## 25                                           Watertown NY   79
## 26                                              Bangor ME   79
## 27                                 Peoria-Bloomington IL   79
## 28                               Burlington VT-Plattsburgh NY   78
## 29                                       Johnstown-Altoona PA   78
## 30                                  Wilkes Barre-Scranton PA   78
## 31                                  Springfield-Holyoke MA   78
## 32                                              Utica NY   78
## 33                                           Jonesboro AR   78
## 34                                              Juneau AK   78
## 35                                    Charlottesville VA   78
## 36                                           Marquette MI   78
## 37                          Davenport IA-Rock Island-Moline IL   78
## 38                                           St. Joseph MO   77
## 39                                           Youngstown OH   77
## 40                                    Casper-Riverton WY   77
## 41                                     Salt Lake City UT   76
## 42                                           Lexington KY   76
## 43                                           Lafayette IN   76
## 44  Paducah KY-Cape Girardeau MO-Harrisburg-Mount Vernon IL   76
## 45                                 Little Rock-Pine Bluff AR   76
## 46                                   La Crosse-Eau Claire WI   76
## 47              Cedar Rapids-Waterloo-Iowa City & Dubuque IA   76
## 48                                 Richmond-Petersburg VA   76
## 49                       Grand Rapids-Kalamazoo-Battle Creek MI   75
## 50                                 Sioux Falls(Mitchell) SD   75
## 51                                      Monterey-Salinas CA   75
## 52                                            Louisville KY   75
## 53                                            Pittsburgh PA   75
## 54                                                Toledo OH   75
## 55                                           Terre Haute IN   75
## 56                        Harrisburg-Lancaster-Lebanon-York PA   75
## 57                                           Zanesville OH   75
## 58                                              Jackson TN   75
## 59                                 South Bend-Elkhart IN   74
## 60                                           Ft. Wayne IN   74
## 61                                         Indianapolis IN   74
## 62                                            Syracuse NY   74
## 63                                           Amarillo TX   74
## 64                                 Hartford & New Haven CT   74
## 65                               Albany-Schenectady-Troy NY   73
## 66                               Columbia-Jefferson City MO   73
## 67                                              Eugene OR   73
```

```
## 68                          Lincoln & Hastings-Kearney NE   73
## 69                                Minneapolis-St. Paul MN   73
## 70                                Joplin MO-Pittsburg KS   73
## 71                                        Parkersburg WV   73
## 72                  Minot-Bismarck-Dickinson(Williston) ND   73
## 73                                          Madison WI   73
## 74                                        Evansville IN   73
## 75                                     Tri-Cities TN-VA   73
## 76                                         Lafayette LA   72
## 77                                       Presque Isle ME   72
## 78                                          Billings, MT   72
## 79                                     Oklahoma City OK   72
## 80                                       Gainesville FL   72
## 81                     Champaign & Springfield-Decatur IL   72
## 82                                     Kansas City MO   72
## 83                                      Shreveport LA   72
## 84                          Traverse City-Cadillac MI   71
## 85                       Tallahassee FL-Thomasville GA   71
## 86                             Albuquerque-Santa Fe NM   71
## 87                                  Portland-Auburn ME   71
## 88                                Wichita-Hutchinson KS   71
## 89                                      Lake Charles LA   71
## 90                                    Chico-Redding CA   71
## 91                                  Roanoke-Lynchburg VA   71
## 92                               Tucson (Sierra Vista) AZ   71
## 93                           Cleveland-Akron (Canton) OH   70
## 94                     Yakima-Pasco-Richland-Kennewick WA   70
## 95                                          Spokane WA   70
## 96                                          Jackson MS   70
## 97                        Providence RI-New Bedford MA   70
## 98                          Colorado Springs-Pueblo CO   70
## 99                                       San Angelo TX   70
## 100                                            Lima OH   70
## 101                      Huntsville-Decatur (Florence) AL   70
## 102                                         Buffalo NY   70
## 103                           Monroe LA-El Dorado AR   70
## 104                                       Anchorage AK   69
## 105                                Fresno-Visalia CA   69
## 106                                       Missoula MT   69
## 107                                        Lubbock TX   69
## 108                                     Springfield MO   69
## 109                                       Rochester NY   69
## 110                                         Mankato MN   69
## 111                                        Columbus OH   69
## 112                                         Detroit MI   69
## 113                           Medford-Klamath Falls OR   69
## 114                  Rochester MN-Mason City IA-Austin MN   69
## 115                                    Philadelphia PA   69
## 116                                  Waco-Temple-Bryan TX   68
## 117                           Boston MA-Manchester NH   68
## 118                                       Sioux City IA   68
## 119                                         Portland OR   68
## 120                                       Baltimore MD   68
## 121                                 Wausau-Rhinelander WI   68
```

```
## 122                     Norfolk-Portsmouth-Newport News VA   68
## 123                                       Alexandria LA   68
## 124                                       Rapid City SD   68
## 125                                   Des Moines-Ames IA   68
## 126     Greenville-Spartanburg SC-Asheville NC-Anderson SC   68
## 127                                       Baton Rouge LA   68
## 128                                     Palm Springs CA   67
## 129                                       Cincinnati OH   67
## 130                                       Bakersfield CA   67
## 131                                             Boise ID   66
## 132                                   Seattle-Tacoma WA   66
## 133                                           Chicago IL   66
## 134                                       Charleston SC   66
## 135                Greensboro-High Point-Winston Salem NC   66
## 136                                       Milwaukee WI   66
## 137                                       Nashville TN   66
## 138                                          Albany GA   66
## 139                                          Dothan AL   65
## 140                                Hattiesburg-Laurel MS   65
## 141                                         St. Louis MO   65
## 142                                       Knoxville TN   65
## 143                                Abilene-Sweetwater TX   65
## 144                                          Dayton OH   65
## 145                                       San Antonio TX   65
## 146                                         Victoria TX   65
## 147                           Columbus-Tupelo-West Point MS   65
## 148                         Greenville-New Bern-Washington NC   65
## 149                                       Columbus GA   65
## 150                                Green Bay-Appleton WI   65
## 151          Ft. Smith-Fayetteville-Springdale-Rogers AR   65
## 152                                       Chattanooga TN   65
## 153                                          Phoenix AZ   64
## 154                                       Columbia SC   64
## 155                        Raleigh-Durham (Fayetteville) NC   64
## 156                                       Los Angeles CA   64
## 157                                            Denver CO   64
## 158                                       New Orleans LA   63
## 159                                     Bowling Green KY   63
## 160                                Montgomery (Selma) AL   63
## 161                                          Augusta GA   63
## 162                                            Omaha NE   63
## 163                                       Birmingham AL   63
## 164                                          El Paso TX   63
## 165                                           Laredo TX   62
## 166                                             Bend OR   62
## 167                                            Tulsa OK   62
## 168                              Grand Junction-Montrose CO   61
## 169                             Wichita Falls TX & Lawton OK   61
## 170          Santa Barbara-Santa Maria-San Luis Obispo CA   61
## 171                                       San Diego CA   61
## 172             Mobile AL-Pensacola (Ft. Walton Beach) FL   61
## 173                                   Yuma AZ-El Centro CA   61
## 174                                          Honolulu HI   61
## 175                                     Corpus Christi TX   60
```

```
## 176                                     Jacksonville FL   60
## 177                                Greenwood-Greenville MS   60
## 178                                         Savannah GA   60
## 179                                           Austin TX   60
## 180                          Washington DC (Hagerstown MD)   60
## 181                                       Panama City FL   60
## 182                                             Reno NV   60
## 183                                           Atlanta GA   59
## 184                          Sacramento-Stockton-Modesto CA   59
## 185                                         Twin Falls ID   59
## 186                 Tyler-Longview(Lufkin & Nacogdoches) TX   59
## 187                                         Charlotte NC   59
## 188                                         Salisbury MD   59
## 189                      Tampa-St. Petersburg (Sarasota) FL   59
## 190                                          New York NY   59
## 191                       San Francisco-Oakland-San Jose CA   58
## 192                           West Palm Beach-Ft. Pierce FL   58
## 193                                         Memphis TN   58
## 194                                           Macon GA   57
## 195                                       Wilmington NC   57
## 196                              Florence-Myrtle Beach SC   56
## 197                            Cheyenne WY-Scottsbluff NE   56
## 198                                    Biloxi-Gulfport MS   56
## 199                                           Houston TX   56
## 200                                       Fairbanks AK   55
## 201                      Orlando-Daytona Beach-Melbourne FL   55
## 202                                  Ft. Myers-Naples FL   55
## 203                                  Dallas-Ft. Worth TX   55
## 204                                         Las Vegas NV   55
## 205                Harlingen-Weslaco-Brownsville-McAllen TX   54
## 206                               Beaumont-Port Arthur TX   53
## 207                                     Odessa-Midland TX   52
## 208                               Miami-Ft. Lauderdale FL   48
## 209                                         Meridian MS   45
##        keyword geo gprop
## 1   depression  US   web
## 2   depression  US   web
## 3   depression  US   web
## 4   depression  US   web
## 5   depression  US   web
## 6   depression  US   web
## 7   depression  US   web
## 8   depression  US   web
## 9   depression  US   web
## 10  depression  US   web
## 11  depression  US   web
## 12  depression  US   web
## 13  depression  US   web
## 14  depression  US   web
## 15  depression  US   web
## 16  depression  US   web
## 17  depression  US   web
## 18  depression  US   web
## 19  depression  US   web
```

```
## 20  depression  US   web
## 21  depression  US   web
## 22  depression  US   web
## 23  depression  US   web
## 24  depression  US   web
## 25  depression  US   web
## 26  depression  US   web
## 27  depression  US   web
## 28  depression  US   web
## 29  depression  US   web
## 30  depression  US   web
## 31  depression  US   web
## 32  depression  US   web
## 33  depression  US   web
## 34  depression  US   web
## 35  depression  US   web
## 36  depression  US   web
## 37  depression  US   web
## 38  depression  US   web
## 39  depression  US   web
## 40  depression  US   web
## 41  depression  US   web
## 42  depression  US   web
## 43  depression  US   web
## 44  depression  US   web
## 45  depression  US   web
## 46  depression  US   web
## 47  depression  US   web
## 48  depression  US   web
## 49  depression  US   web
## 50  depression  US   web
## 51  depression  US   web
## 52  depression  US   web
## 53  depression  US   web
## 54  depression  US   web
## 55  depression  US   web
## 56  depression  US   web
## 57  depression  US   web
## 58  depression  US   web
## 59  depression  US   web
## 60  depression  US   web
## 61  depression  US   web
## 62  depression  US   web
## 63  depression  US   web
## 64  depression  US   web
## 65  depression  US   web
## 66  depression  US   web
## 67  depression  US   web
## 68  depression  US   web
## 69  depression  US   web
## 70  depression  US   web
## 71  depression  US   web
## 72  depression  US   web
## 73  depression  US   web
```

```
## 74  depression  US   web
## 75  depression  US   web
## 76  depression  US   web
## 77  depression  US   web
## 78  depression  US   web
## 79  depression  US   web
## 80  depression  US   web
## 81  depression  US   web
## 82  depression  US   web
## 83  depression  US   web
## 84  depression  US   web
## 85  depression  US   web
## 86  depression  US   web
## 87  depression  US   web
## 88  depression  US   web
## 89  depression  US   web
## 90  depression  US   web
## 91  depression  US   web
## 92  depression  US   web
## 93  depression  US   web
## 94  depression  US   web
## 95  depression  US   web
## 96  depression  US   web
## 97  depression  US   web
## 98  depression  US   web
## 99  depression  US   web
## 100 depression  US   web
## 101 depression  US   web
## 102 depression  US   web
## 103 depression  US   web
## 104 depression  US   web
## 105 depression  US   web
## 106 depression  US   web
## 107 depression  US   web
## 108 depression  US   web
## 109 depression  US   web
## 110 depression  US   web
## 111 depression  US   web
## 112 depression  US   web
## 113 depression  US   web
## 114 depression  US   web
## 115 depression  US   web
## 116 depression  US   web
## 117 depression  US   web
## 118 depression  US   web
## 119 depression  US   web
## 120 depression  US   web
## 121 depression  US   web
## 122 depression  US   web
## 123 depression  US   web
## 124 depression  US   web
## 125 depression  US   web
## 126 depression  US   web
## 127 depression  US   web
```

```
## 128 depression  US   web
## 129 depression  US   web
## 130 depression  US   web
## 131 depression  US   web
## 132 depression  US   web
## 133 depression  US   web
## 134 depression  US   web
## 135 depression  US   web
## 136 depression  US   web
## 137 depression  US   web
## 138 depression  US   web
## 139 depression  US   web
## 140 depression  US   web
## 141 depression  US   web
## 142 depression  US   web
## 143 depression  US   web
## 144 depression  US   web
## 145 depression  US   web
## 146 depression  US   web
## 147 depression  US   web
## 148 depression  US   web
## 149 depression  US   web
## 150 depression  US   web
## 151 depression  US   web
## 152 depression  US   web
## 153 depression  US   web
## 154 depression  US   web
## 155 depression  US   web
## 156 depression  US   web
## 157 depression  US   web
## 158 depression  US   web
## 159 depression  US   web
## 160 depression  US   web
## 161 depression  US   web
## 162 depression  US   web
## 163 depression  US   web
## 164 depression  US   web
## 165 depression  US   web
## 166 depression  US   web
## 167 depression  US   web
## 168 depression  US   web
## 169 depression  US   web
## 170 depression  US   web
## 171 depression  US   web
## 172 depression  US   web
## 173 depression  US   web
## 174 depression  US   web
## 175 depression  US   web
## 176 depression  US   web
## 177 depression  US   web
## 178 depression  US   web
## 179 depression  US   web
## 180 depression  US   web
## 181 depression  US   web
```

```
## 182 depression  US   web
## 183 depression  US   web
## 184 depression  US   web
## 185 depression  US   web
## 186 depression  US   web
## 187 depression  US   web
## 188 depression  US   web
## 189 depression  US   web
## 190 depression  US   web
## 191 depression  US   web
## 192 depression  US   web
## 193 depression  US   web
## 194 depression  US   web
## 195 depression  US   web
## 196 depression  US   web
## 197 depression  US   web
## 198 depression  US   web
## 199 depression  US   web
## 200 depression  US   web
## 201 depression  US   web
## 202 depression  US   web
## 203 depression  US   web
## 204 depression  US   web
## 205 depression  US   web
## 206 depression  US   web
## 207 depression  US   web
## 208 depression  US   web
## 209 depression  US   web
##
## $interest_by_city
##          location hits    keyword geo gprop
## 1       Ann Arbor  100 depression  US   web
## 2         Madison   99 depression  US   web
## 3      Louisville   98 depression  US   web
## 4     Albuquerque   94 depression  US   web
## 5        Portland   94 depression  US   web
## 6  Virginia Beach   91 depression  US   web
## 7      Pittsburgh   91 depression  US   web
## 8        Columbus   90 depression  US   web
## 9    Philadelphia   89 depression  US   web
## 10    Minneapolis   89 depression  US   web
## 11      Baltimore   88 depression  US   web
## 12         Tucson   88 depression  US   web
## 13   Indianapolis   87 depression  US   web
## 14         Boston   86 depression  US   web
## 15    Kansas City   85 depression  US   web
## 16      Nashville   84 depression  US   web
## 17      St. Louis   84 depression  US   web
## 18        Seattle   83 depression  US   web
## 19          Omaha   82 depression  US   web
## 20        Phoenix   82 depression  US   web
## 21     Fort Worth   82 depression  US   web
## 22    San Antonio   82 depression  US   web
## 23     Sacramento   82 depression  US   web
```

```
## 24    Los Angeles   81 depression  US   web
## 25        Detroit   81 depression  US   web
## 26        Chicago   81 depression  US   web
## 27         Denver   80 depression  US   web
## 28      San Diego   80 depression  US   web
## 29   Jacksonville   80 depression  US   web
## 30     Cincinnati   80 depression  US   web
## 31        Raleigh   79 depression  US   web
## 32  Oklahoma City   79 depression  US   web
## 33         Austin   79 depression  US   web
## 34         Dallas   77 depression  US   web
## 35     Washington   75 depression  US   web
## 36       New York   75 depression  US   web
## 37        Atlanta   75 depression  US   web
## 38       San Jose   74 depression  US   web
## 39          Tampa   72 depression  US   web
## 40        Orlando   70 depression  US   web
## 41  San Francisco   70 depression  US   web
## 42      Charlotte   69 depression  US   web
## 43        Houston   68 depression  US   web
## 44          Miami   59 depression  US   web
##
## $related_topics
## NULL
##
## $related_queries
## NULL
##
## attr(,"class")
## [1] "gtrends" "list"
```

For example, this gives us search frequencies by cities in the U.S.

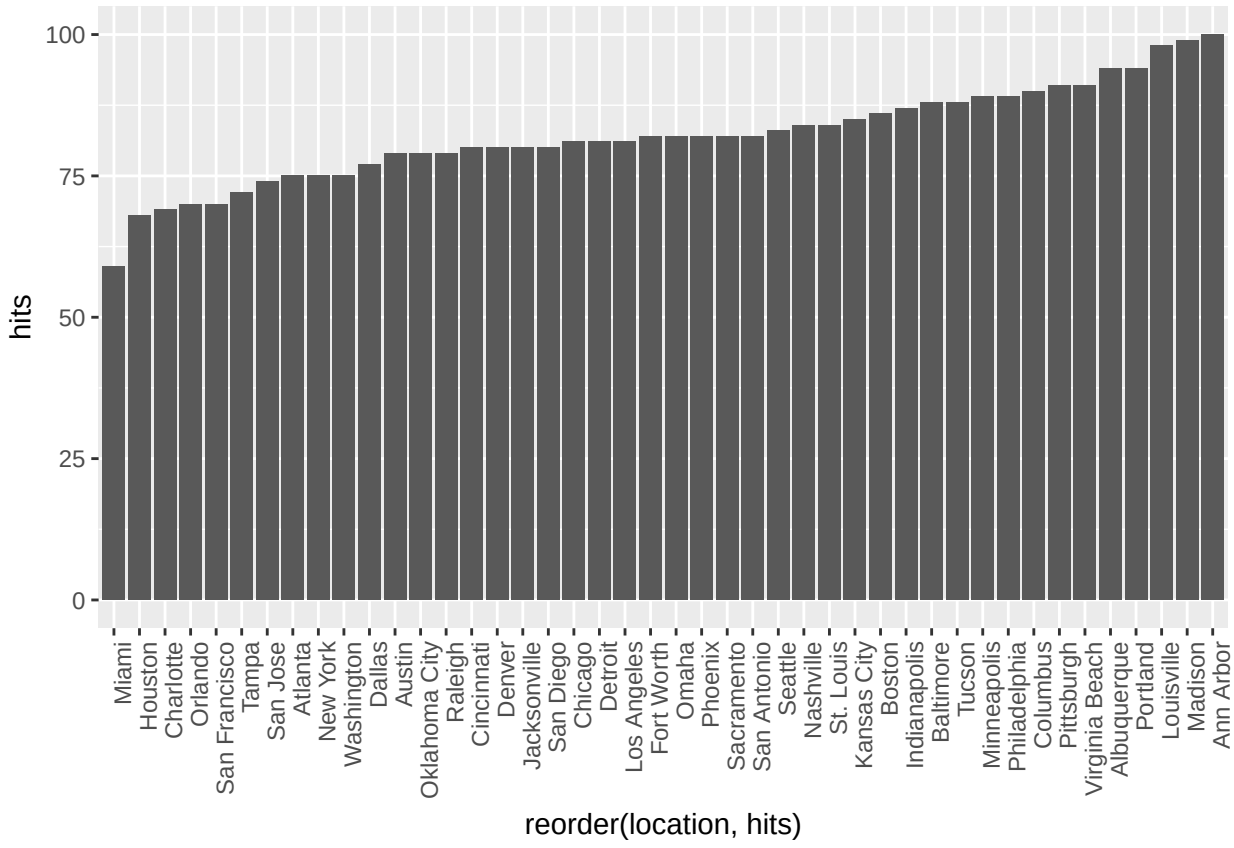
```
cities_dep<-gtrends("depression",c("US"),time="today 12-m",category=437)$interest_by_city
cities_dep
```

```
##          location hits    keyword geo gprop
## 1       Ann Arbor  100 depression  US   web
## 2         Madison   99 depression  US   web
## 3      Louisville   98 depression  US   web
## 4     Albuquerque   94 depression  US   web
## 5        Portland   94 depression  US   web
## 6  Virginia Beach   91 depression  US   web
## 7      Pittsburgh   91 depression  US   web
## 8        Columbus   90 depression  US   web
## 9    Philadelphia   89 depression  US   web
## 10    Minneapolis   89 depression  US   web
## 11      Baltimore   88 depression  US   web
## 12         Tucson   88 depression  US   web
## 13   Indianapolis   87 depression  US   web
## 14         Boston   86 depression  US   web
## 15    Kansas City   85 depression  US   web
## 16      Nashville   84 depression  US   web
## 17      St. Louis   84 depression  US   web
## 18        Seattle   83 depression  US   web
```

```
## 19          Omaha   82 depression  US   web
## 20        Phoenix   82 depression  US   web
## 21     Fort Worth   82 depression  US   web
## 22    San Antonio   82 depression  US   web
## 23     Sacramento   82 depression  US   web
## 24    Los Angeles   81 depression  US   web
## 25        Detroit   81 depression  US   web
## 26        Chicago   81 depression  US   web
## 27         Denver   80 depression  US   web
## 28      San Diego   80 depression  US   web
## 29   Jacksonville   80 depression  US   web
## 30     Cincinnati   80 depression  US   web
## 31        Raleigh   79 depression  US   web
## 32  Oklahoma City   79 depression  US   web
## 33         Austin   79 depression  US   web
## 34         Dallas   77 depression  US   web
## 35     Washington   75 depression  US   web
## 36       New York   75 depression  US   web
## 37        Atlanta   75 depression  US   web
## 38       San Jose   74 depression  US   web
## 39          Tampa   72 depression  US   web
## 40        Orlando   70 depression  US   web
## 41  San Francisco   70 depression  US   web
## 42      Charlotte   69 depression  US   web
## 43        Houston   68 depression  US   web
## 44          Miami   59 depression  US   web
```

This plots cities_dep.

```
ggplot(cities_dep,aes(x=reorder(location,hits),y=hits))+geom_bar(stat="identity")+theme(axis.text.x = el
```


hits
100
75
50
25
0
Miami
Houston
Charlotte
Orlando
San Francisco
Tampa
San Jose
Atlanta
New York
Washington
Dallas
Austin
Oklahoma City
Raleigh
Cincinnati
Denver
Jacksonville
San Diego
Chicago
Detroit
Los Angeles
Fort Worth
Omaha
Phoenix
Sacramento
San Antonio
Seattle
Nashville
St. Louis
Kansas City
Boston
Indianapolis
Baltimore
Tucson
Minneapolis
Philadelphia
Columbus
Pittsburgh
Virginia Beach
Albuquerque
Portland
Louisville
Madison
Ann Arbor
reorder(location, hits)