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Statistical Data Files

WV6_Data_ascii_delimited_v_2016_01_01 (Ascii delimited + structure) 

WV6_Data_R_v_2016_01_01 (R Workspace) 

WV6_Data_sas_v_2016_01_01 (SAS) 

WV6_Data_spss_v_2016_01_01 (Spss SAV) 

WV6_Data_stata_v_2016_01_01 (Stata DTA) 

```

16,12,12,1,1,1,1,-2,1,1,2,1,1,1,2,2,2,2,2,2,1,2,8,2,0,0,0,0,0,0,0,0
26,12,12,2,1,2,3,4,2,2,2,2,1,2,2,2,2,2,2,2,1,2,5,1,0,0,0,0,0,0,0,0
36,12,12,3,1,3,2,4,2,1,2,2,2,2,2,1,2,1,2,1,2,4,1,0,0,0,0,0,0,0,0,0
46,12,12,4,1,1,3,4,3,1,2,1,2,2,2,2,1,2,2,2,1,1,2,8,2,0,0,0,0,0,0,0
56,12,12,5,1,1,2,1,1,1,3,2,1,1,2,2,2,1,2,2,2,2,8,2,0,0,0,0,0,0,0,0
66,12,12,6,1,2,2,2,4,1,2,1,2,2,1,2,2,1,1,2,2,2,2,7,1,0,0,0,0,0,0,0
76,12,12,7,1,1,1,1,1,2,2,1,1,2,2,1,2,2,2,2,2,2,7,2,1,0,0,0,0,0,0,0
86,12,12,8,1,1,1,2,2,2,1,2,1,2,2,2,2,2,1,2,1,2,5,-2,0,0,0,0,0,0,0,0
96,12,12,9,1,1,1,2,2,2,2,2,2,2,1,1,2,1,2,2,2,2,6,2,0,0,0,0,0,0,0,0
106,12,12,10,1,1,2,1,1,1,1,2,2,2,2,2,2,2,2,2,1,2,5,-2,0,0,0,0,0,0,0,0
116,12,12,11,1,2,3,4,1,1,2,4,1,2,2,1,1,2,2,2,2,1,2,5,1,0,0,0,0,0,0,0
126,12,12,12,1,1,2,3,2,1,2,2,2,1,2,2,2,2,2,1,1,2,3,2,0,0,0,0,0,0,0
136,12,12,13,1,2,3,3,4,4,2,3,2,2,1,1,2,2,1,2,2,2,2,5,2,0,0,0,0,0,0,0
146,12,12,14,1,1,1,1,1,2,2,1,2,2,2,2,2,2,2,1,2,3,1,0,0,0,0,0,0,0
156,12,12,15,1,2,3,4,4,1,2,3,1,2,2,2,2,2,2,1,2,4,2,0,0,0,0,0,0,0
166,12,12,16,1,2,2,3,3,4,2,3,1,2,2,2,2,2,1,1,2,1,2,3,2,0,0,0,0,0,0
176,12,12,17,1,2,3,2,1,1,2,1,2,2,1,2,2,2,2,2,1,2,7,2,0,1,0,0,0,0,1
186,12,12,18,1,1,1,2,1,1,2,3,1,2,2,2,2,1,1,2,2,1,2,6,2,0,0,0,0,0,0
196,12,12,19,1,1,1,2,1,1,2,3,1,1,2,2,2,1,1,2,2,2,2,5,2,0,0,0,0,0,0
206,12,12,20,1,3,3,4,2,2,3,1,2,2,1,2,2,1,1,2,5,1,0,0,0,0,0,0,0,0
216,12,12,21,1,1,4,1,1,1,2,1,1,1,2,2,2,2,1,1,2,10,1,0,0,0,0,0,1,0
226,12,12,22,1,1,1,4,1,1,3,3,1,2,2,2,1,2,2,1,1,2,1,2,0,0,0,0,0,0
236,12,12,23,1,1,2,4,1,1,2,1,1,2,2,1,2,2,1,1,2,10,2,0,2,0,0,0,0,0
246,12,12,24,1,4,2,4,1,1,4,2,2,2,2,2,2,1,1,1,1,1,2,0,2,0,0,0,0,0
256,12,12,25,1,2,1,3,1,1,1,2,1,1,2,1,2,2,1,1,2,10,2,1,2,2,2,0,0,0
266,12,12,26,1,4,4,4,1,1,2,3,2,1,2,2,1,1,1,1,2,2,7,2,0,0,0,0,0,0

```

Find the columns we're looking for

VARIABLES			
V1	1	(F1) {Wave}	\V1
V2	2	(F3) {Country Code}	\V2
V2A	3	(F3) {Country/regions [with split ups]}	\V2A
V3	4	(F7) {Interview number}	\V3
V4	5	(F2) [≤ -1]	{Important in life: Family} \V4
V5	6	(F2) [≤ -1]	{Important in life: Friends} \V5
V6	7	(F2) [≤ -1]	{Important in life: Leisure time} \V6
V7	8	(F2) [≤ -1]	{Important in life: Politics} \V7
V8	9	(F2) [≤ -1]	{Important in life: Work} \V8
V9	10	(F2) [≤ -1]	{Important in life: Religion} \V9
V10	11	(F2) [≤ -1]	{Important in life: ...} \V10

Find the countries

```
\V2
-5 'Missing; Unknown'
-4 'Not asked in survey'
-3 'Not applicable'
-2 'No answer'
-1 'Don't know'
4 'Afghanistan'
8 'Albania'
12 'Algeria'
16 'American Samoa'
20 'Andorra'
24 'Angola'
28 'Antigua'
31 'Azerbaijan'
32 'Argentina'
36 'Australia'
40 'Austria'
48 'Bahrain'
50 'Bangladesh'
51 'Armenia'
52 'Barbados'
56 'Belgium'
60 'Bermuda'
64 'Bhutan'
68 'Bolivia'
70 'Bosnia Herzegovina'
```

```
country_to_code = {
    "Afghanistan": 4,
    "Algeria" : 12,
    "Australia" : 36,
    "Bahrain" : 48,
    "Belgium" : 56,
    "Burundi" : 108,
    "Cameroon" : 120,
    "Canada" : 124,
    "Chad" : 148,
    "Czech Republic" : 203,
    "Denmark" : 208,
    "Egypt" : 818,
    "France" : 250,
    "Georgia" : 268,
    "Germany" : 276,
    "India" : 356,
    "Iran" : 364,
    "Iraq" : 368,
    "Italy" : 380
```

Find the right column for each value for each wave

```
wave_question_index = {
    3: {
        "politics" : 8,
        "religion" : 10,
        "happiness" : 11,
        "health" : 12,
        "c. independence" : 16,
        "family" : 5,
        "work" : 9,
        "leasure time" : 7
    },
    4: {
        "politics" : 7,
        "religion" : 9,
        "happiness" : 11,
        "health" : 12,
        "c. independence" : 15,
        "family" : 4,
        "work" : 8,
        "leasure time" : 6
    },
}
```

```

180 |         if old_country in code_to_country.keys():
181 |             # last country was important, save the data
182 |             waves[wave][code_to_country[old_country]] = country_data

```

250 python lines later

```

{'countries': [{'count': 1127,
                  'name': 'Pakistan',
                  'values': {'c. independence': {'1': 998, '2': 129},
                             'family': {'1': 989, '2': 119, '3': 18, '4': 1},
                             'happiness': {'-1': 2,
                                           '1': 337,
                                           '2': 726,
                                           '3': 54,
                                           '4': 8},

```

Handle bloated data from gapminder excel-sheets: more python

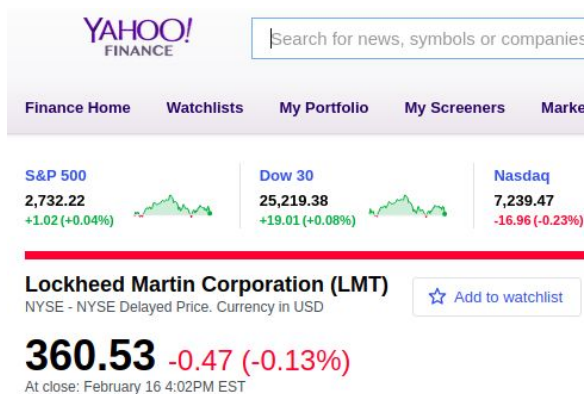
```

for country in list(data):
    if not (country in countries):
        del data[country]

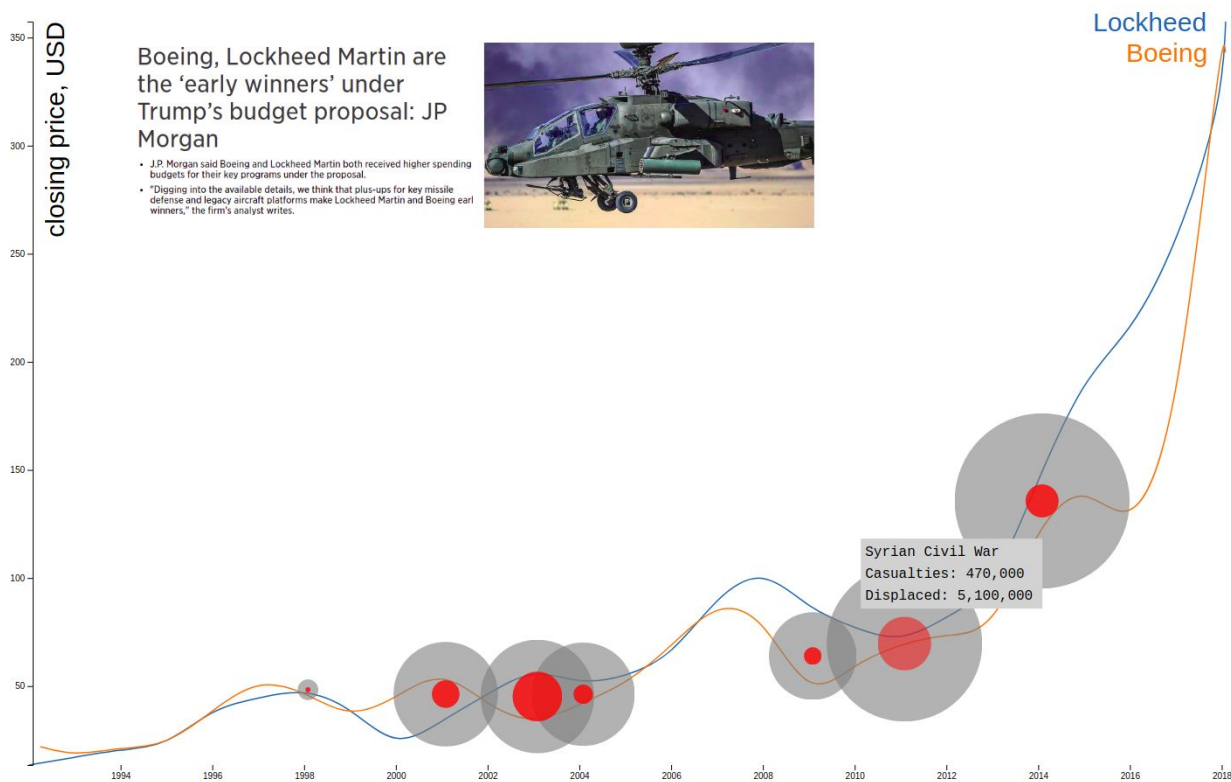
```

4 MB to 0.7 MB, woo!

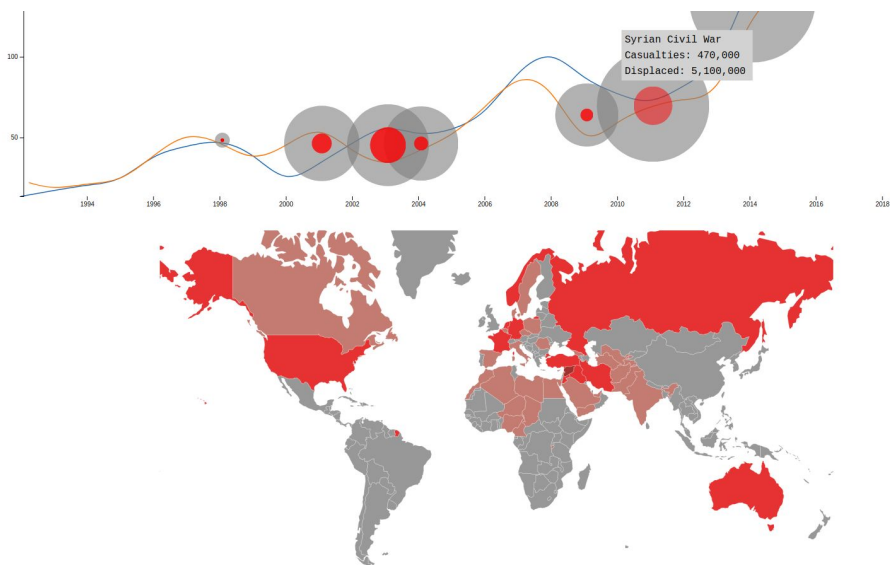
Gather context-data,
wikipedia and Yahoo Finance



Make combined line chart and scatter plot for context data (learned: mixing plot-types)

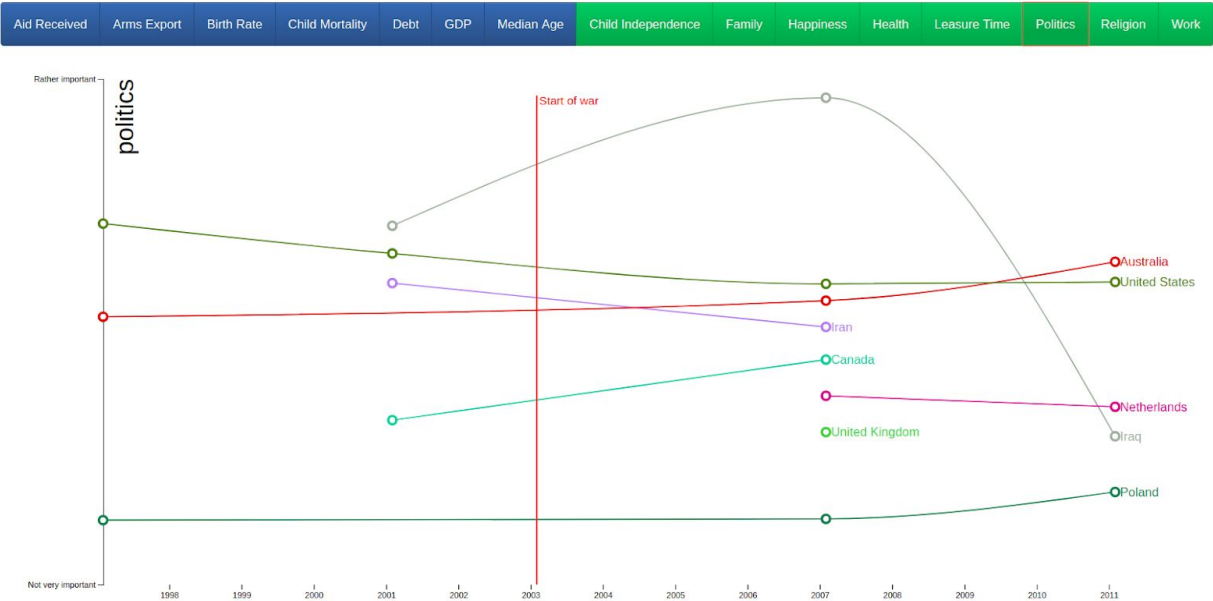


Visualize filtered data by linking to world map (learned: maps from vector-data)



Now present gapminder and WVS data as time series data (learned: ordinal y-scale)

Iraq war (2003 - 2011)



Finally details on demand on WVS data (learned: horizontal dotted lines)

Iraq, wave 5

