	totalcommamt	totalamt	grantamt	ibrdcommamt	idacommamt
129	1307800000	1307800000	0	1307800000	0
147	800000000	800000000	0	800000000	0
377	650000000	650000000	0	650000000	0
463	600000000	600000000	0	0	600000000
49	600000000	600000000	0	600000000	0
101	585400000	585400000	0	585400000	0
112	550000000	550000000	0	550000000	0
110	500000000	500000000	0	0	500000000
391	500000000	500000000	0	500000000	0
6	500000000	500000000	0	500000000	0
468	450000000	450000000	0	450000000	0
476	448900000	448900000	0	0	448900000
340	440000000	440000000	0	0	440000000
461	415000000	415000000	0	0	415000000
288	400000000	400000000	0	0	400000000

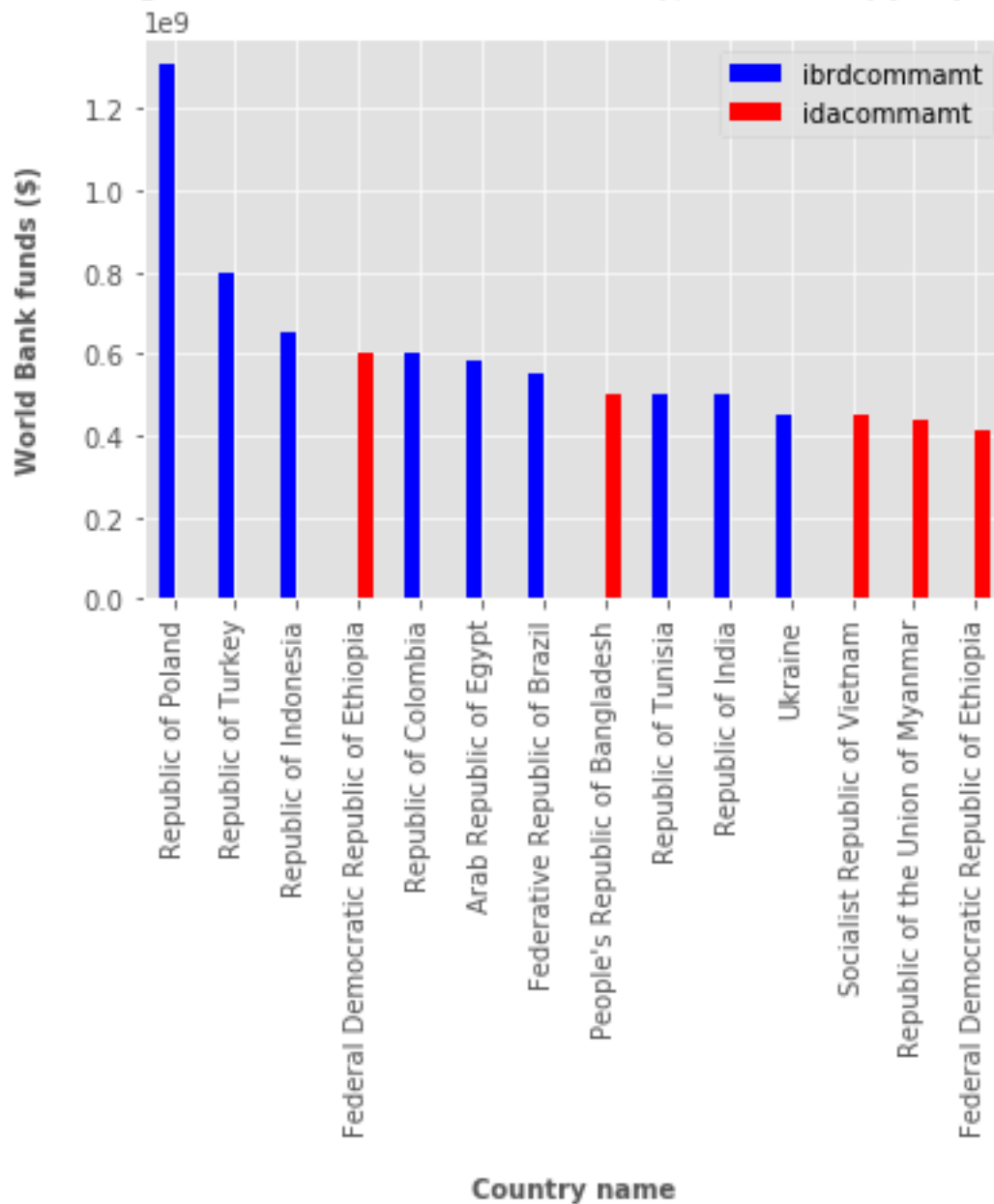|	countryname	approvalfy
129	Republic of Poland	2013
147	Republic of Turkey	2013
377	Republic of Indonesia	2013
463	Federal Democratic Republic of Ethiopia	2013
49	Republic of Colombia	2014
101	Arab Republic of Egypt	2013
112	Federative Republic of Brazil	2013
110	People's Republic of Bangladesh	2013
391	Republic of Tunisia	2013
6	Republic of India	2014
468	Ukraine	2013
476	Socialist Republic of Vietnam	2013
340	Republic of the Union of Myanmar	2013
461	Federal Democratic Republic of Ethiopia	2013
288	Islamic Republic of Pakistan	2013

=====PROJECTS WITH THE LEAST FUNDS COMMITTED=====

	totalcommamt	totalamt	grantamt	ibrdcommamt	idacommamt
209	210000	0	210000	0	0
88	200000	0	200000	0	0
325	200000	0	200000	0	0
419	200000	0	200000	0	0
78	200000	0	200000	0	0
94	200000	0	200000	0	0
301	200000	0	200000	0	0
493	150000	0	150000	0	0

```
473      150000    0   150000        0            0
472      150000    0   150000        0            0
43       100000    0   100000        0            0
495       50000    0    50000        0            0
427       30000    0    30000        0            0
444       30000    0    30000        0            0
368       30000    0    30000        0            0


                                countryname  approvalfy
209   Macedonia, former Yugoslav Republic of        2013
88                    Republic of Tajikistan        2013
325                     Republic of Croatia        2013
419                    Republic of Maldives        2013
78                      Republic of Liberia        2013
94                      Republic of Armenia        2013
301                       Republic of Yemen        2013
493          People's Republic of Bangladesh        2013
473                      Republic of Albania        2013
472                      Republic of Armenia        2013
43    Democratic Republic of Sao Tome and Prin        2014
495                                  Jamaica        2013
427                      Kingdom of Morocco        2013
444                      Kingdom of Morocco        2013
368                   Arab Republic of Egypt        2013
```

 ==PROJECTS WITH THE GREATEST AMOUNTS OF FUNDS COMMITTED BY
RECIPIENT COUNTRY==

Highest-ranking amounts of World Bank funds ($ US billions) per project by country


```
In [53]: runfile('/Users/vickimoore/.spyder-py3/springboard-
jsondatawrangling-cleaner.py', wdir='/Users/vickimoore/.spyder-
py3')
=====BOOKKEEPING INFO=====

                            _id  approvalfy
board_approval_month  \
0  {'$oid': '52b213b38594d8a2be17c780'}        1999
November
1  {'$oid': '52b213b38594d8a2be17c781'}        2015
November
```

```
2  {'$oid': '52b213b38594d8a2be17c782'}          2014
November
3  {'$oid': '52b213b38594d8a2be17c783'}          2014
October
4  {'$oid': '52b213b38594d8a2be17c784'}          2014
October


        boardapprovaldate                                borrower
\
0  2013-11-12T00:00:00Z   FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA
1  2013-11-04T00:00:00Z                      GOVERNMENT OF TUNISIA
2  2013-11-01T00:00:00Z   MINISTRY OF FINANCE AND ECONOMIC DEVEL
3  2013-10-31T00:00:00Z   MIN. OF PLANNING AND INT'L COOPERATION
4  2013-10-31T00:00:00Z                        MINISTRY OF FINANCE


              closingdate
country_namecode  \
0  2018-07-07T00:00:00Z   Federal Democratic Republic of Ethiopia!
$!ET
1                NaN                        Republic of Tunisia!
$!TN
2                NaN                                     Tuvalu!
$!TV
3                NaN                        Republic of Yemen!
$!RY
4  2019-04-30T00:00:00Z                     Kingdom of Lesotho!
$!LS

  countrycode                              countryname
countryshortname  \
0         ET  Federal Democratic Republic of Ethiopia
Ethiopia
1         TN                      Republic of Tunisia
Tunisia
2         TV                                   Tuvalu
Tuvalu
3         RY                        Republic of Yemen   Yemen,
Republic of
4         LS                       Kingdom of Lesotho
Lesotho

                        ...                           sectorcode
source  \
0                        ...                          ET,BS,ES,EP
IBRD
1                        ...                              BZ,BS
IBRD
                                                                      4
```

```
2                          ...                              TI
IBRD
3                          ...                              JB
IBRD
4                          ...                         FH,YW,YZ
IBRD

   status  supplementprojectflg  \
0  Active                     N
1  Active                     N
2  Active                     Y
3  Active                     N
4  Active                     N

                                              theme1  \
0       {'Percent': 100, 'Name': 'Education for all'}
1  {'Percent': 30, 'Name': 'Other economic manage...
2    {'Percent': 46, 'Name': 'Regional integration'}
3  {'Percent': 50, 'Name': 'Participation and civ...
4  {'Percent': 30, 'Name': 'Export development an...

                                    theme_namecode    themecode
totalamt  \
0       [{'code': '65', 'name': 'Education for all'}]         65
130000000
1  [{'code': '24', 'name': 'Other economic manage...      54,24
0
2  [{'code': '47', 'name': 'Regional integration'...  52,81,25,47
6060000
3  [{'code': '57', 'name': 'Participation and civ...      59,57
0
4  [{'code': '45', 'name': 'Export development an...      41,45
13100000

   totalcommamt                                                url
0    130000000  http://www.worldbank.org/projects/P129828/ethi...
1      4700000  http://www.worldbank.org/projects/P144674?lang=en
2      6060000  http://www.worldbank.org/projects/P145310?lang=en
3      1500000  http://www.worldbank.org/projects/P144665?lang=en
4     13100000  http://www.worldbank.org/projects/P144933/seco...

[5 rows x 50 columns]
Index(['_id', 'approvalfy', 'board_approval_month',
'boardapprovaldate',
       'borrower', 'closingdate', 'country_namecode',
'countrycode',
       'countryname', 'countryshortname', 'docty',
```

```
       'envassesmentcategorycode',
       'grantamt', 'ibrdcommamt', 'id', 'idacommamt', 'impagency',
       'lendinginstr', 'lendinginstrtype', 'lendprojectcost',
       'majorsector_percent', 'mjsector_namecode', 'mjtheme',
       'mjtheme_namecode', 'mjthemecode', 'prodline',
'prodlinetext',
       'productlinetype', 'project_abstract', 'project_name',
'projectdocs',
       'projectfinancialtype', 'projectstatusdisplay',
'regionname', 'sector',
       'sector1', 'sector2', 'sector3', 'sector4',
'sector_namecode',
       'sectorcode', 'source', 'status', 'supplementprojectflg',
'theme1',
       'theme_namecode', 'themecode', 'totalamt', 'totalcommamt',
'url'],
      dtype='object')
<class 'pandas.core.frame.DataFrame'>
Int64Index: 500 entries, 0 to 499
Data columns (total 50 columns):
_id                       500 non-null object
approvalfy                500 non-null int64
board_approval_month      500 non-null object
boardapprovaldate         500 non-null object
borrower                  485 non-null object
closingdate               370 non-null object
country_namecode          500 non-null object
countrycode               500 non-null object
countryname               500 non-null object
countryshortname          500 non-null object
docty                     446 non-null object
envassesmentcategorycode  430 non-null object
grantamt                  500 non-null int64
ibrdcommamt               500 non-null int64
id                        500 non-null object
idacommamt                500 non-null int64
impagency                 472 non-null object
lendinginstr              495 non-null object
lendinginstrtype          495 non-null object
lendprojectcost           500 non-null int64
majorsector_percent       500 non-null object
mjsector_namecode         500 non-null object
mjtheme                   491 non-null object
mjtheme_namecode          500 non-null object
mjthemecode               500 non-null object
prodline                  500 non-null object
prodlinetext              500 non-null object
```

```
productlinetype            500 non-null object
project_abstract           362 non-null object
project_name               500 non-null object
projectdocs                446 non-null object
projectfinancialtype       500 non-null object
projectstatusdisplay       500 non-null object
regionname                 500 non-null object
sector                     500 non-null object
sector1                    500 non-null object
sector2                    380 non-null object
sector3                    265 non-null object
sector4                    174 non-null object
sector_namecode            500 non-null object
sectorcode                 500 non-null object
source                     500 non-null object
status                     500 non-null object
supplementprojectflg       498 non-null object
theme1                     500 non-null object
theme_namecode             491 non-null object
themecode                  491 non-null object
totalamt                   500 non-null int64
totalcommamt               500 non-null int64
url                        500 non-null object
dtypes: int64(7), object(43)
memory usage: 199.2+ KB
None


  =====TOP COUNTRIES BY NUMBERS OF PROJECTS=====

People's Republic of China          19
Republic of Indonesia               19
Socialist Republic of Vietnam       17
Republic of India                   16
Republic of Yemen                   13
Kingdom of Morocco                  12
Nepal                               12
People's Republic of Bangladesh     12
Republic of Mozambique              11
Africa                              11
Burkina Faso                         9
Name: countryname, dtype: int64


  =====TOP 10 COUNTRIES BY NUMBERS OF PROJECTS WITH ONLY COUNTRIES
IN LIST=====

People's Republic of China          19
Republic of Indonesia               19
```

```
Socialist Republic of Vietnam       17
Republic of India                   16
Republic of Yemen                   13
Kingdom of Morocco                  12
Nepal                               12
People's Republic of Bangladesh     12
Republic of Mozambique              11
Burkina Faso                         9
Name: countryname, dtype: int64


 =====INVESTIGATIVE CODE TO VIEW THE MISSING THEME NAME FOR CODE
3=====

name
                                               11
Urban development                               1
Trade and integration                           1
Social protection and risk management           1
Social dev/gender/inclusion                     1
Rural development                               1
Rule of law                                     1
Public sector governance                        1
Human development                               1
Financial and private sector development        1
Environment and natural resources management    1
Name: code, dtype: int64


 =====ALL ENTRIES ORGANIZED BY THEME=====


      code                name        id
458      1  Economic management  P130925
1235     1  Economic management  P131440
1230     1  Economic management  P129465
1229     1  Economic management  P129465
1218     1  Economic management  P130824
900      1  Economic management  P143819
648      1  Economic management  P129825
647      1  Economic management  P129825
1078     1  Economic management  P131234
1206     1  Economic management  P133255
1437     1                       P130412
357      1  Economic management  P130459
363      1                       P144030
1010     1  Economic management  P133706
784      1  Economic management  P110836
1024     1                       P124114
88       1  Economic management  P132425
```

```
1045    1  Economic  management  P133791
497     1  Economic  management  P133663
1056    1  Economic  management  P144633
1057    1  Economic  management  P144633
1114    1                        P131094
454     1  Economic  management  P130925
453     1  Economic  management  P128573
1257    1  Economic  management  P133230
1260    1  Economic  management  P133339
1212    1  Economic  management  P121019
249     1  Economic  management  P132948
841     1  Economic  management  P122793
220     1  Economic  management  P144917
...    ...                  ...       ...
669     9   Urban  development  P127303
1303    9   Urban  development  P130528
1347    9   Urban  development  P131394
460     9                       P117394
1342    9   Urban  development  P130174
183     9   Urban  development  P121917
200     9   Urban  development  P125120
1318    9   Urban  development  P130461
1290    9   Urban  development  P118152
585     9   Urban  development  P123729
737     9   Urban  development  P117876
822     9   Urban  development  P125022
369     9   Urban  development  P126749
597     9   Urban  development  P129713
53      9   Urban  development  P145359
598     9   Urban  development  P129713
356     9   Urban  development  P127543
354     9   Urban  development  P127543
962     9   Urban  development  P132268
738     9   Urban  development  P117876
512     9   Urban  development  P127163
742     9   Urban  development  P127079
1428    9   Urban  development  P118916
333     9                       P132154
1426    9   Urban  development  P112901
1425    9   Urban  development  P112901
447     9   Urban  development  P126899
739     9   Urban  development  P127079
341     9   Urban  development  P144357
1102    9   Urban  development  P130972

[1499 rows x 3 columns]
```

=====TO CONFIRM FILLED-IN ENTRIES FOR NAMES=====

	code	name	id
458	1	Economic management	P130925
1235	1	Economic management	P131440
1230	1	Economic management	P129465
1229	1	Economic management	P129465
1218	1	Economic management	P130824
900	1	Economic management	P143819
648	1	Economic management	P129825
647	1	Economic management	P129825
1078	1	Economic management	P131234
1206	1	Economic management	P133255
1437	1	Economic management	P130412
357	1	Economic management	P130459
363	1	Economic management	P144030
1010	1	Economic management	P133706
784	1	Economic management	P110836
1024	1	Economic management	P124114
88	1	Economic management	P132425
1045	1	Economic management	P133791
497	1	Economic management	P133663
1056	1	Economic management	P144633
1057	1	Economic management	P144633
1114	1	Economic management	P131094
454	1	Economic management	P130925
453	1	Economic management	P128573
1257	1	Economic management	P133230
1260	1	Economic management	P133339
1212	1	Economic management	P121019
249	1	Economic management	P132948
841	1	Economic management	P122793
220	1	Economic management	P144917
...	...	...	...
669	9	Urban development	P127303
1303	9	Urban development	P130528
1347	9	Urban development	P131394
460	9	Urban development	P117394
1342	9	Urban development	P130174
183	9	Urban development	P121917
200	9	Urban development	P125120
1318	9	Urban development	P130461
1290	9	Urban development	P118152
585	9	Urban development	P123729
737	9	Urban development	P117876
822	9	Urban development	P125022
369	9	Urban development	P126749

```
597      9     Urban development   P129713
53       9     Urban development   P145359
598      9     Urban development   P129713
356      9     Urban development   P127543
354      9     Urban development   P127543
962      9     Urban development   P132268
738      9     Urban development   P117876
512      9     Urban development   P127163
742      9     Urban development   P127079
1428     9     Urban development   P118916
333      9     Urban development   P132154
1426     9     Urban development   P112901
1425     9     Urban development   P112901
447      9     Urban development   P126899
739      9     Urban development   P127079
341      9     Urban development   P144357
1102     9     Urban development   P130972

[1499 rows x 3 columns]

 =====CONFIRM MATCHING NUMBERS FOR CODES AND FILLED-IN NAMES=====

      name    id
code
1       38    38
10     216   216
11     250   250
2      199   199
3       15    15
4      146   146
5       77    77
6      168   168
7      130   130
8      210   210
9       50    50

 =====MAJOR PROJECT THEME TOP 10 COUNT=====

Environment and natural resources management    250
Rural development                               216
Human development                               210
Public sector governance                        199
Social protection and risk management           168
Financial and private sector development        146
Social dev/gender/inclusion                     130
Trade and integration                            77
Urban development                                50
```

```
Economic management                                        38
Name: name, dtype: int64

 =====PROJECTS WITH THE GREATEST AMOUNTS OF FUNDS COMMITTED=====

     totalcommamt    totalamt  grantamt  ibrdcommamt  idacommamt
\
129    1307800000  1307800000         0   1307800000           0
147     800000000   800000000         0    800000000           0
377     650000000   650000000         0    650000000           0
463     600000000   600000000         0            0   600000000
49      600000000   600000000         0    600000000           0
101     585400000   585400000         0    585400000           0
112     550000000   550000000         0    550000000           0
110     500000000   500000000         0            0   500000000
391     500000000   500000000         0    500000000           0
6       500000000   500000000         0    500000000           0
468     450000000   450000000         0    450000000           0
476     448900000   448900000         0            0   448900000
340     440000000   440000000         0            0   440000000
461     415000000   415000000         0            0   415000000
288     400000000   400000000         0            0   400000000


                                        countryname  approvalfy
129                          Republic of Poland        2013
147                          Republic of Turkey        2013
377                        Republic of Indonesia        2013
463  Federal Democratic Republic of Ethiopia        2013
49                          Republic of Colombia        2014
101                        Arab Republic of Egypt        2013
112                    Federative Republic of Brazil        2013
110                People's Republic of Bangladesh        2013
391                          Republic of Tunisia        2013
6                              Republic of India        2014
468                                        Ukraine        2013
476                    Socialist Republic of Vietnam        2013
340                Republic of the Union of Myanmar        2013
461  Federal Democratic Republic of Ethiopia        2013
288                    Islamic Republic of Pakistan        2013

 =====PROJECTS WITH THE LEAST FUNDS COMMITTED=====

     totalcommamt  totalamt  grantamt  ibrdcommamt  idacommamt  \
209        210000         0    210000            0           0
88         200000         0    200000            0           0
325        200000         0    200000            0           0
419        200000         0    200000            0           0
```
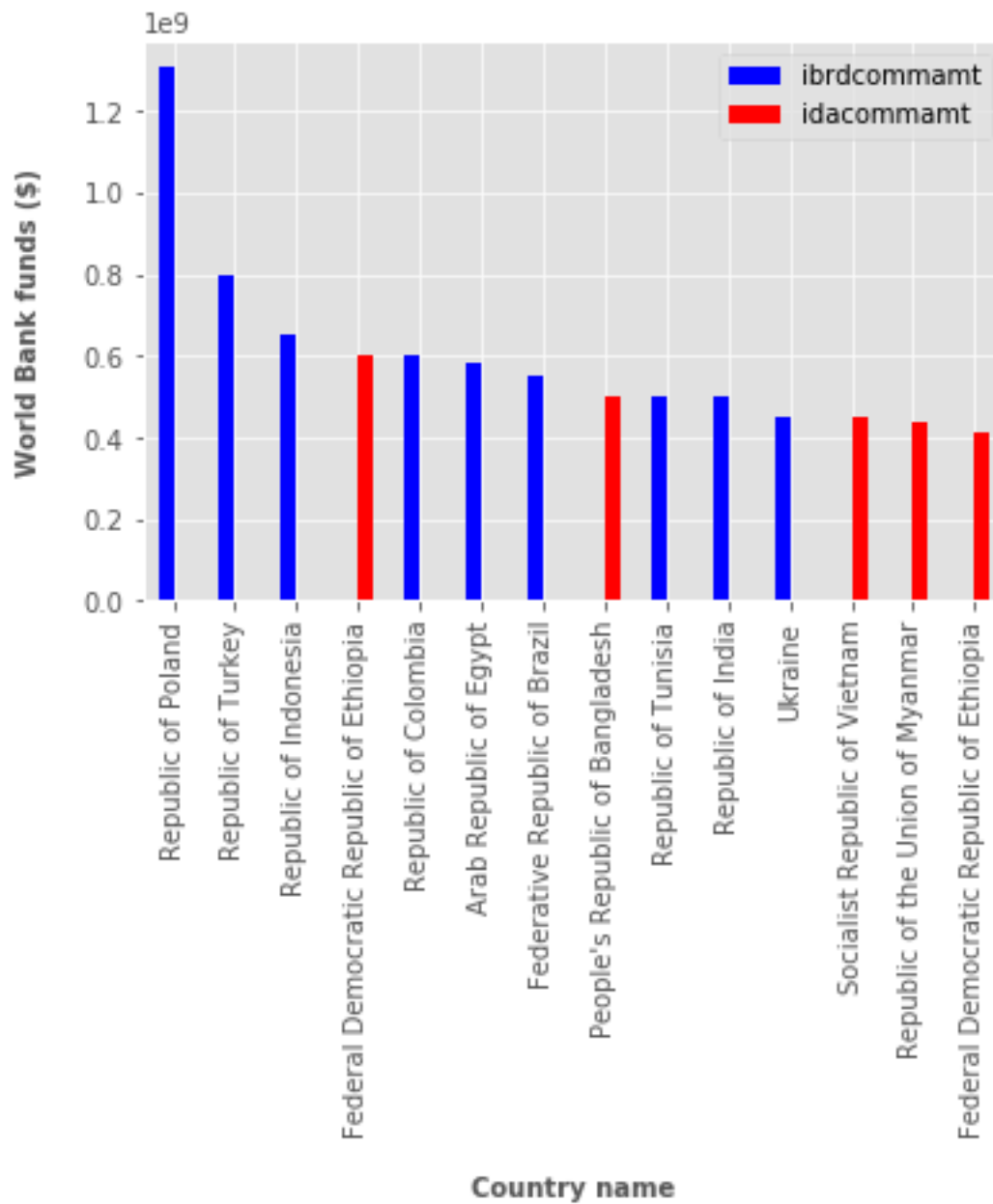
```
78       200000        0    200000              0              0
94       200000        0    200000              0              0
301      200000        0    200000              0              0
493      150000        0    150000              0              0
473      150000        0    150000              0              0
472      150000        0    150000              0              0
43       100000        0    100000              0              0
495       50000        0     50000              0              0
427       30000        0     30000              0              0
444       30000        0     30000              0              0
368       30000        0     30000              0              0
```

```
                                      countryname  approvalfy
209       Macedonia, former Yugoslav Republic of        2013
88                         Republic of Tajikistan        2013
325                          Republic of Croatia        2013
419                         Republic of Maldives        2013
78                           Republic of Liberia        2013
94                           Republic of Armenia        2013
301                             Republic of Yemen        2013
493              People's Republic of Bangladesh        2013
473                          Republic of Albania        2013
472                          Republic of Armenia        2013
43     Democratic Republic of Sao Tome and Prin        2014
495                                       Jamaica        2013
427                           Kingdom of Morocco        2013
444                           Kingdom of Morocco        2013
368                        Arab Republic of Egypt        2013
```

==PROJECTS WITH THE GREATEST AMOUNTS OF FUNDS COMMITTED BY RECIPIENT COUNTRY==

Highest-ranking amounts of World Bank funds ($ US billions) per project by country

In [54]: