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# **wbdata Documentation**

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### What is wpdata?

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Wpdata is a simple python interface to find and request information from the World Bank's various databases, either as a dictionary containing full metadata or as a [pandas DataFrame](#). Currently, wpdata wraps most of the [World Bank API](#), and also adds some convenience functions for searching and retrieving information.

Wpdata was designed to be used either in a script or in a shell. In a shell, wpdata assumes that the user will use most functions to look up the codes necessary to retrieve the information he wants. To this end, the default in shell mode for most functions is to simply print the id and human-readable name of each item in question. In a script, the default is to return the entire response from the World Bank converted to python objects.

All the functions that you need to get started are in the [wpdata library reference](#) module.

Finally, it should be pointed out that wpdata is in the "release early" portion of the "release early, release often" cycle, and the current test suite is pretty perfunctory. You won't end up with the wrong data, but any irregularities I haven't specifically encountered in the World Bank database have not been dealt with.



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## Full Package Documentation

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### 2.1 wldata library reference

Wldata provides a set of functions that are used to interface with the World Bank's databases. For any function involving pandas capabilities, pandas must (obviously) be installed.

#### 2.1.1 Convenience Functions

`wldata.search_indicators` (*query, source=None, topic=None, display=None*)

Search indicators for a certain term. Very simple. Only one of source or topic can be specified. In interactive mode, will return None and print ids and names unless `suppress_printing` is True.

**Query** the term to match against indicator names

**Source** if present, id of desired source

**Topic** if present, id of desired topic

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** a list of dictionaries representing indicators if display is False

`wldata.search_countries` (*query, incomelevel=None, lendingtype=None, display=None*)

Search countries by name. Very simple search.

**Query** the string to match against country names

**Incomelevel** if present, search only the matching incomelevel

**Lendingtype** if present, search only the matching lendingtype

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** a list of dictionaries representing countries if display is False

`wldata.get_dataframe` (*indicators, country='u'all', data\_date=None, convert\_date=False, keep\_levels=False*)

**Convenience function to download a set of indicators and merge them into a** pandas DataFrame. The index will be the same as if calls were made to `get_data` separately.

**Indicators** An dictionary where the keys are desired indicators and the values are the desired column names

**Country** a country code, sequence of country codes, or “all” (default)

**Data\_date** the desired date as a datetime object or a 2-sequence with start and end dates

**Convert\_date** if True, convert date field to a datetime.datetime object.

**Keep\_levels** if True and pandas is True, don’t reduce the number of index levels returned if only getting one date or country

**Returns** a pandas dataframe

```
wbdata.get_panel(indicators, country=u'all', data_date=None, convert_date=False,
                 items=u'indicators', major_axis=u'dates')
```

**Convenience function to download a set of indicators and merge them into a** pandas Panel.

**Indicators** An dictionary where the keys are desired indicators and the values are the desired column names

**Country** a country code, sequence of country codes, or “all” (default)

**Data\_date** a 2-sequence with start and end dates

**Convert\_date** if True, convert date field to a datetime.datetime object.

**Items** which values to use as the Panel items. One of “indicators”, “countries”, “dates”

**Major\_axis** which values to use as major axis for each item. One of “indicators”, “countries”, “dates”

**Returns** a pandas panel

## 2.1.2 Finding the data you want

```
wbdata.get_source(source_id=None, display=None)
```

Retrieve information on a source

**Source\_id** a source id or sequence thereof. None returns all sources

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False, a dictionary describing a source

```
wbdata.get_topic(topic_id=None, display=None)
```

Retrieve information on a topic

**Topic\_id** a topic id or sequence thereof. None returns all topics

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False, a dictionary describing an income level aggregate

```
wbdata.get_lendingtype(type_id=None, display=None)
```

Retrieve information on an income level aggregate

**Level\_id** lending type id or sequence thereof. None returns all lending type aggregates

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False, a dictionary describing an lending type aggregate



`wbdata.get_incomelevel` (*level\_id=None, display=None*)

Retrieve information on an income level aggregate

**Level\_id** a level id or sequence thereof. None returns all income level aggregates

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False a dictionary describing an income level aggregate

`wbdata.get_country` (*country\_id=None, incomelevel=None, lendingtype=None, display=None*)

Retrieve information on a country or regional aggregate. Can specify either `country_id`, or the aggregates, but not both

**Country\_id** a country id or sequence thereof. None returns all countries and aggregates.

**Incomelevel** desired incomelevel id or ids.

**Lendingtype** desired lendingtype id or ids.

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise.

**Returns** if display is False, a dictionary describing an lending type aggregate.

`wbdata.get_indicator` (*indicator=None, source=None, topic=None, display=None*)

Retrieve information about an indicator or indicators. Only one of indicator, source, and topic can be specified. Specifying none of the three will return all indicators.

**Indicator** an indicator code or sequence thereof

**Source** a source id or sequence thereof

**Topic** a topic id or sequence thereof

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False, a list of dictionary objects representing indicators

### 2.1.3 Retrieving your data

`wbdata.get_data` (*indicator, country=u'all', data\_date=None, convert\_date=False, pandas=False, column\_name=u'value', keep\_levels=False*)

Retrieve indicators for given countries and years

**Indicator** the desired indicator code

**Country** a country code, sequence of country codes, or “all” (default)

**Date** the desired date as a datetime object or a 2-tuple with start and end dates

**Convert\_date** if True, convert date field to a datetime.datetime object.

**Pandas** if True, return results as a pandas Series. The index will be the date of the data if only one country is specified, the countries if only one date is specified, or a multi-index of country and date otherwise.

**Column\_name** the desired name for the pandas column

**Keep\_levels** if True and pandas is True, don't reduce the number of index levels returned if only getting one date or country

**Returns** list of dictionaries or pandas Series

## 2.2 wbdata.fetcher library reference

Fetcher is the mechanism used by wbdata for reading, paging, caching, and converting responses from the World Bank. Luckily, most users will have no need to deal with this library, which is why it is separate. `wbdata.fetcher`: retrieve and cache queries

**class** `wbdata.fetcher.Cache`

Docstring for Cache

**sync** ()

Sync cache to disk

`wbdata.fetcher.fetch` (*query\_url*, *args=None*, *cached=True*)

fetch data from the World Bank API or from cache

**Query\_url** the base url to be queried

**Args** a dictionary of GET arguments

**Cached** use the cache

**Returns** a list of dictionaries containing the response to the query

`wbdata.fetcher.fetch_url` (*url*)

Fetch a url directly from the World Bank, up to TRIES tries

**Url** the url to retrieve

**Returns** a string with the url contents

## 2.3 wbdata.api library reference

The api library is where all the nuts-and-bolts functions are defined, as well as those which are imported into the main namespace. `wbdata.api`: Where all the functions go

`wbdata.api.cast_float` (*value*)

Return a floated value or none

`wbdata.api.convert_dates_to_datetime` (*data*)

Return a datetime.datetime object from a date string as provided by the World Bank

`wbdata.api.convert_month_to_datetime` (*monthstr*)

return datetime.datetime object from %YM%m formatted string

`wbdata.api.convert_quarter_to_datetime` (*quarterstr*)

return datetime.datetime object from %YQ%# formatted string, where # is the desired quarter

`wbdata.api.convert_to_dataframe` (*data*, *column\_name*)

Convert a set of values to a dataframe with columns for country and date

`wbdata.api.convert_year_to_datetime` (*yearstr*)

return datetime.datetime object from %Y formatted string

`wbdata.api.get_country` (*country\_id=None*, *incomelevel=None*, *lendingtype=None*, *display=None*)

Retrieve information on a country or regional aggregate. Can specify either `country_id`, or the aggregates, but not both

**Country\_id** a country id or sequence thereof. None returns all countries and aggregates.

**Incomelevel** desired incomelevel id or ids.

**Lendingtype** desired lendingtype id or ids.

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise.

**Returns** if display is False, a dictionary describing an lending type aggregate.

```
wbdata.api.get_data(indicator, country='u'all', data_date=None, convert_date=False, pandas=False,
                    column_name='u'value', keep_levels=False)
```

Retrieve indicators for given countries and years

**Indicator** the desired indicator code

**Country** a country code, sequence of country codes, or “all” (default)

**Date** the desired date as a datetime object or a 2-tuple with start and end dates

**Convert\_date** if True, convert date field to a datetime.datetime object.

**Pandas** if True, return results as a pandas Series. The index will be the date of the data if only one country is specified, the countries if only one date is specified, or a multi-index of country and date otherwise.

**Column\_name** the desired name for the pandas column

**Keep\_levels** if True and pandas is True, don’t reduce the number of index levels returned if only getting one date or country

**Returns** list of dictionaries or pandas Series

```
wbdata.api.get_dataframe(indicators, country='u'all', data_date=None, convert_date=False,
                          keep_levels=False)
```

**Convenience function to download a set of indicators and merge them into a** pandas DataFrame. The index will be the same as if calls were made to get\_data separately.

**Indicators** An dictionary where the keys are desired indicators and the values are the desired column names

**Country** a country code, sequence of country codes, or “all” (default)

**Data\_date** the desired date as a datetime object or a 2-sequence with start and end dates

**Convert\_date** if True, convert date field to a datetime.datetime object.

**Keep\_levels** if True and pandas is True, don’t reduce the number of index levels returned if only getting one date or country

**Returns** a pandas dataframe

```
wbdata.api.get_incomelevel(level_id=None, display=None)
```

Retrieve information on an income level aggregate

**Level\_id** a level id or sequence thereof. None returns all income level aggregates

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False a dictionary describing an income level aggregate

```
wbdata.api.get_indicator(indicator=None, source=None, topic=None, display=None)
```

Retrieve information about an indicator or indicators. Only one of indicator, source, and topic can be specified. Specifying none of the three will return all indicators.

**Indicator** an indicator code or sequence thereof

**Source** a source id or sequence thereof

**Topic** a topic id or sequence thereof

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False, a list of dictionary objects representing indicators

`wbdata.api.get_lendingtype` (*type\_id=None, display=None*)

Retrieve information on an income level aggregate

**Level\_id** lending type id or sequence thereof. None returns all lending type aggregates

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False, a dictionary describing an lending type aggregate

`wbdata.api.get_panel` (*indicators, country=u'all', data\_date=None, convert\_date=False, items=u'indicators', major\_axis=u'dates'*)

**Convenience function to download a set of indicators and merge them into a pandas Panel.**

**Indicators** An dictionary where the keys are desired indicators and the values are the desired column names

**Country** a country code, sequence of country codes, or “all” (default)

**Data\_date** a 2-sequence with start and end dates

**Convert\_date** if True, convert date field to a datetime.datetime object.

**Items** which values to use as the Panel items. One of “indicators”, “countries”, “dates”

**Major\_axis** which values to use as major axis for each item. One of “indicators”, “countries”, “dates”

**Returns** a pandas panel

`wbdata.api.get_source` (*source\_id=None, display=None*)

Retrieve information on a source

**Source\_id** a source id or sequence thereof. None returns all sources

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False, a dictionary describing a source

`wbdata.api.get_topic` (*topic\_id=None, display=None*)

Retrieve information on a topic

**Topic\_id** a topic id or sequence thereof. None returns all topics

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False, a dictionary describing an income level aggregate

`wbdata.api.id_only_query` (*query\_url, query\_id, display*)

Retrieve information when ids are the only arguments

**Query\_url** the base url to use for the query

**Query\_id** an id number. None returns all sources

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** if display is False, a dictionary describing a source

`wbdata.api.parse_value_or_iterable` (*arg*)

If *arg* is a single value, return it as a string; if an iterable, return a ;-joined string of all values

`wbdata.api.print_ids_and_names` (*objs*)

Courtesy function to display ids and names from lists returned by wbdata. This will mostly be useful in interactive mode.

**Objs** a list of dictionary objects as returned by wbdata

`wbdata.api.search_countries` (*query, incomelevel=None, lendingtype=None, display=None*)

Search countries by name. Very simple search.

**Query** the string to match against country names

**Incomelevel** if present, search only the matching incomelevel

**Lendingtype** if present, search only the matching lendingtype

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** a list of dictionaries representing countries if display is False

`wbdata.api.search_indicators` (*query, source=None, topic=None, display=None*)

Search indicators for a certain term. Very simple. Only one of source or topic can be specified. In interactive mode, will return None and print ids and names unless `suppress_printing` is True.

**Query** the term to match against indicator names

**Source** if present, id of desired source

**Topic** if present, id of desired topic

**Display** if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise

**Returns** a list of dictionaries representing indicators if display is False

`wbdata.api.uses_pandas` (*f*)

Raise `ValueError` if pandas is not loaded



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## Installation

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Wbdata is available on [PyPi](#) which means you can download it from there or install using `easy_install` or `pip`:

```
easy_install wbdata
```

```
pip install wbdata
```

You can also download or get the source from [GitHub](#).





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## Suggested Citation

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If you use wldata in a paper, it would be great to cite it. It lets me know to keep working on it, and it lets other researchers know how to make their lives easier. Suggested citation would be something like:

Sherouse, Oliver (2014). Wldata. Arlington, VA. Available from <http://github.com/OliverSherouse/wldata>.



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## A Typical User Session

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Let's say we want to find some data for the ease of doing business in some well-off countries. I might start off by seeing what sources are available and look promising:

```
>>> wldata.get_source()
11 Africa Development Indicators
31 Country Policy and Institutional Assessment (CPIA)
26 Corporate Scorecard
1 Doing Business
30 Exporter Dynamics Database: Country-Year
12 Education Statistics
13 Enterprise Surveys
28 Global Findex ( Global Financial Inclusion database)
33 G20 Basic Set of Financial Inclusion Indicators
14 Gender Statistics
15 Global Economic Monitor
27 GEP Economic Prospects
32 Global Financial Development
21 Global Economic Monitor (GEM) Commodities
29 Global Social Protection
16 Health Nutrition and Population Statistics
18 International Development Association - Results Measurement System
6 International Debt Statistics
25 Jobs for Knowledge Platform
19 Millennium Development Goals
24 Povstats
20 Public Sector Debt
23 Quarterly External Debt Statistics (QEDS) - General Data Dissemination System (GDDS)
22 Quarterly External Debt Statistics (QEDS) - Special Data Dissemination Standard (SDDS)
2 World Development Indicators
3 Worldwide Governance Indicators
```

Well, that “Doing Business”—source 1—looks like a winner. Let's see what we've got available to us there.

```
>>> wldata.get_indicator(source=1)
IC.BUS.EASE.XQ      Ease of doing business index (1=most business-friendly regulations)
IC.CRD.INFO.XQ     Credit depth of information index (0=low to 6=high)
IC.CRD.PRVT.ZS     Private credit bureau coverage (% of adults)
IC.CRD.PUBL.ZS     Public credit registry coverage (% of adults)
IC.DCP.COST        Cost to build a warehouse (% of income per capita)
IC.DCP.PROC        Procedures required to build a warehouse (number)
IC.DCP.TIME        Time required to build a warehouse (days)
IC.EC.COST         Cost to enforce a contract (% of claim)
IC.EC.PROC         Procedures required to enforce a contract (number)
```

IC.EC.TIME	Time required to enforce a contract (days)
IC.EXP.COST.EXP	Trade: Cost to export (US\$ per container)
IC.EXP.COST.IMP	Trade: Cost to import (US\$ per container)
IC.EXP.DOCS	Documents to export (number)
IC.EXP.DOCS.IMP	Trade: Documents to import (number)
IC.EXP.TIME.EXP	Trade: Time to export (day)
IC.EXP.TIME.IMP	Trade: Time to import (days)
IC.GE.COST	Cost to get electricity(% of income per capita)
IC.GE.NUM	Procedures required to connect to electricity (number)
IC.GE.TIME	Time required to connect to electricity (days)
IC.IMP.DOCS	Documents to import (number)
IC.ISV.COST	Resolving insolvency: cost (% of estate)
IC.ISV.DURS	Time to resolve insolvency (years)
IC.ISV.RECRT	Resolving insolvency: recovery rate (cents on the dollar)
IC.LGL.CRED.XQ	Strength of legal rights index (0=weak to 10=strong)
IC.LIC.NUM	Procedures required to build a warehouse (number)
IC.LIC.TIME	Time required to build a warehouse (days)
IC.PI.DIR	Extent of director liability index (0 to 10)
IC.PI.DISCL	Extent of disclosure index (0 to 10)
IC.PI.INV	Strength of investor protection index (0 to 10)
IC.PI.SHAR	Ease of shareholder suits index (0 to 10)
IC.REG.CAP	Minimum paid-in capital required to start a business (% of income per capita)
IC.REG.COST	Cost to start a business (% of income per capita)
IC.REG.DURS	Time required to start a business (days)
IC.REG.PROC	Start-up procedures to register a business (number)
IC.RP.COST	Cost to register property (% of property value)
IC.RP.PROC	Procedures required to register property (number)
IC.RP.TIME	Time required to register property (days)
IC.TAX.DURS	Time to prepare and pay taxes (hours)
IC.TAX.PAYM	Tax payments (number)
IC.TAX.TOTL.CP.ZS	Total tax rate (% of commercial profits)

Alrighty. There's a lot there. But let's say I'm in the early stages of developing a question and go for the most general measure, which is the first one, the "Ease of Doing Business Index", which has the id "IC.BUS.EASE.XQ".

Now remember, we're only interested in high-income countries right now, because we're elitist. So let's use one of the convenience search functions to figure out the code for the United States so we don't have to wait for data from a bunch of other countries:

```
>>> wbdata.search_countries("united")
ARE United Arab Emirates
GBR United Kingdom
USA United States
```

"USA". Very creative. Thank you, World Bank. But in any case, let's get our data:

```
>>> wbdata.get_data("IC.BUS.EASE.XQ", country=USA)
```

And that will return a big long list of dictionaries with all the relevant data and metadata as organized by the World Bank. Now let's say we want to look at the United Kingdom as well ("GBR", see above), and only for the years 2010-2011. We can actually search using multiple countries and restrict the dates using datetime objects. Here's what that would look like:

```
>>> data_date = (datetime.datetime(2010, 1, 1), datetime.datetime(2011, 1, 1))
>>> wbdata.get_data("IC.BUS.EASE.XQ", country=("USA", "GBR"), data_date=data_date)
```

And we get another long list of dictionaries, which we can parse any which way we please.

So let's get a little bit more econometric. Let's say we want to fetch this same indicator, but also gdp per capita and for all OECD countries. Let's find the other indicator we want using another convenience search function:

```
>>> wbdata.search_indicators("gdp per capita")
GDPPCKD      GDP per Capita, constant US$, millions
GDPPCKN      Real GDP per Capita (real local currency units, various base years)
NV.AGR.PCAP.KD.ZG  Real agricultural GDP per capita growth rate (%)
NY.GDP.PCAP.CD      GDP per capita (current US$)
NY.GDP.PCAP.KD      GDP per capita (constant 2000 US$)
NY.GDP.PCAP.KD.ZG  GDP per capita growth (annual %)
NY.GDP.PCAP.KN      GDP per capita (constant LCU)
NY.GDP.PCAP.PP.CD  GDP per capita, PPP (current international $)
NY.GDP.PCAP.PP.KD  GDP per capita, PPP (constant 2005 international $)
NY.GDP.PCAP.PP.KD.ZG  GDP per capita, PPP annual growth (%)
SE.XPD.PRIM.PC.ZS  Expenditure per student, primary (% of GDP per capita)
SE.XPD.SECO.PC.ZS  Expenditure per student, secondary (% of GDP per capita)
SE.XPD.TERT.PC.ZS  Expenditure per student, tertiary (% of GDP per capita)
```

Like good economists, we'll use the one that seems most impressive: GDP per Capita at PPP in constant 2005 dollars, which has the id "NY.GDP.PCAP.PP.KD". But what about using OECD countries?

```
>>> wbdata.get_incomelevel()
HIC High income
HPC Heavily indebted poor countries (HIPC)
INX Not classified
LIC Low income
LMC Lower middle income
LMY Low & middle income
MIC Middle income
NOC High income: nonOECD
OEC High income: OECD
UMC Upper middle income
```

Funtastic. Finally, let's make sure we get our data into a lovely merged pandas DataFrame, suitable for analysis with that library, statsmodels, or whatever else we'd like.

```
>>> countries = [i['id'] for i in wbdata.get_country(incomelevel="OEC", display=False)]
>>> indicators = {"IC.BUS.EASE.XQ": "doing_business", "NY.GDP.PCAP.PP.KD": "gdppc"}
>>> df = wbdata.get_dataframe(indicators, country=countries, convert_date=True)
>>> df.describe()
           gdppc  doing_business
count      943.000000      62.000000
mean     25394.219689      29.322581
std       9495.732499      21.946861
min        5543.572247       3.000000
25%      19278.418595      11.000000
50%      24640.540261      27.500000
75%      30655.760574      41.000000
max       74021.456759      89.000000
>>> df = df.dropna()
>>> df.gdppc.corr(df.doing_business)
-0.2858022507189249
```

And, since lower scores on that indicator mean more business-friendly regulations, that's exactly what we would expect. It goes without saying that we can use our data now to do any other analysis required.



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