

# 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.

## Convenience Functions

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**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

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**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

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**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.

<b>Indicators:</b>	An dictionary where the keys are desired indicators and the values are the desired column names
<b>Country:</b>	a country code, sequence of country codes, or "all" (default)
<b>Data_date:</b>	the desired date as a datetime object or a 2-sequence with start and end dates
<b>Convert_date:</b>	if True, convert date field to a datetime.datetime object.
<b>Keep_levels:</b>	if True and pandas is True, don't reduce the number of index levels returned if only getting one date or country
<b>Returns:</b>	a pandas dataframe

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```
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.

<b>Indicators:</b>	An dictionary where the keys are desired indicators and the values are the desired column names
<b>Country:</b>	a country code, sequence of country codes, or "all" (default)
<b>Data_date:</b>	a 2-sequence with start and end dates
<b>Convert_date:</b>	if True, convert date field to a datetime.datetime object.
<b>Items:</b>	which values to use as the Panel items. One of "indicators", "countries", "dates"
<b>Major_axis:</b>	which values to use as major axis for each item. One of "indicators", "countries", "dates"
<b>Returns:</b>	a pandas panel

## Finding the data you want

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

Retrieve information on a source

<b>Source_id:</b>	a source id or sequence thereof. None returns all sources
<b>Display:</b>	if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise
<b>Returns:</b>	if display is False, a dictionary describing a source

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### **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

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### **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

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### **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

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### **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.

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### **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.

<b>Indicator:</b>	an indicator code or sequence thereof
<b>Source:</b>	a source id or sequence thereof
<b>Topic:</b>	a topic id or sequence thereof
<b>Display:</b>	if True, print ids and names instead of returning results. Defaults to True if in interactive prompt, or False otherwise
<b>Returns:</b>	if display is False, a list of dictionary objects representing indicators

## Retrieving your data

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```
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

<b>Indicator:</b>	the desired indicator code
<b>Country:</b>	a country code, sequence of country codes, or "all" (default)
<b>Date:</b>	the desired date as a datetime object or a 2-tuple with start and end dates
<b>Convert_date:</b>	if True, convert date field to a datetime.datetime object.
<b>Pandas:</b>	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.
<b>Column_name:</b>	the desired name for the pandas column
<b>Keep_levels:</b>	if True and pandas is True, don't reduce the number of index levels returned if only getting one date or country
<b>Returns:</b>	list of dictionaries or pandas Series