

ILO API for Minimum Set of Gender Indicators

Lingyan Hu

Thu 8/8/2019 5:11 PM

To: Luis Gerardo Gonzalez Morales <gonzalezmorales@un.org>
 Cc: Haoyi Chen <chen9@un.org>; Yukun Pei <yukun.pei@un.org>

0 1 attachments (460 KB)

ILOSTAT-SDMX API User Guide V20170822.pdf;

Hi Luis,

This is the latest documentation of what ILO indicators we are pulling data from. More technical details can be found in the email correspondence below and also the attached pdf file.

Let me know if you need anything else.

Thank you,

Lingyan

Indicator	API – bothsex	API - female	API - male
03a Labour force participation rate for persons aged 15-24, by sex	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_Y15-24 sex=SEX_T	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_Y15-24 sex=SEX_F	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_Y15-24 sex=SEX_M
03b Labour force participation rate for persons aged 15+, by sex	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_YGE15 sex=SEX_T	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_YGE15 sex=SEX_F	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_YGE15 sex=SEX_M
04 Proportion of employed who are own-account workers, by sex	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_3 sex=SEX_T	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_3 sex=SEX_F	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_3 sex=SEX_M
05 Proportion of employed who are contributing family workers, by sex	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_5 sex=SEX_T	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_5 sex=SEX_F	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_5 sex=SEX_M
06 Proportion of employed who are employers, by sex	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_2 sex=SEX_T	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_2 sex=SEX_F	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_2 sex=SEX_M
08a Percentage distribution	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1= ECO_SECTOR_AGR	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1= ECO_SECTOR_AGR	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1= ECO_SECTOR_AGR

of employed population in agricultural sector, by sex	sex=SEX_T	sex=SEX_F	sex=SEX_M
08b Percentage distribution of employed population in industrial sector, by sex	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_IND sex=SEX_T	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_IND sex=SEX_F	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_IND sex=SEX_M
08c Percentage distribution of employed population in service sector, by sex	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_SER sex=SEX_T	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_SER sex=SEX_F	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_SER sex=SEX_M
14 Proportion of employed working part-time, by sex	collection=YI indicator=EMP_PTER_SEX_RT sex=SEX_T	collection=YI indicator=EMP_PTER_SEX_RT sex=SEX_F	collection=YI indicator=EMP_PTER_SEX_RT sex=SEX_M

From: Sodergren, Marie-Claire <sodergren@ilo.org>

Sent: Friday, 31 August, 2018 11:04 AM

To: Samrat Maskey <samrat.maskey@un.org>

Cc: ILOSTAT <iostat@ilo.org>; Haoyi Chen <chen9@un.org>; Lei, Weichen <lei@ilo.org>; Stoevska, Valentina <stoevska@ilo.org>; Kapsos, Steven <kapsos@ilo.org>; Greising, Edgardo <greising@ilo.org>; Francesca Grum <grum@un.org>

Subject: RE: Minimum set gender indicator SDMX API - ILO

Dear Samrat,

Please note that if you take the indicators from the SDG's API, those data are only updated in the beginning of the year. I am not sure about the timing of your update for the minimum set of gender indicators. If it's in the fall, we would have a lot more data in ILOSTAT than the SDG site since the summer/fall is when most of our data gets published.

More importantly for some SDG indicators, there are multiple series. For women's share of managerial positions (SDG 5.5.2), the two series are "senior managers" and "total managers". The series you should be using is for senior managers. This does not seem to be the case but rather it looks like a mixture of the two series (at least when I checked letter A countries). For informal employment (SDG 8.3.1), you are correctly pulling from the harmonized series.

Regarding the reduced number of countries, we are no longer collecting nor publishing data for 38 territories.

For the metadata, it's fine with us moving to the SDG format, however, there is an inaccuracy. For unemployment, we do not provide imputed values for either dataset. The SDG metadata description for "treatment of missing values" is describing the ILO estimates which are used to produce regional and global estimates.

For revisions, I am still going through the file to ensure there are no mistakes on our end and will let you know.

Best regards,
Marie-Claire

From: Samrat Maskey [<mailto:samrat.maskey@un.org>]

Sent: 15 August 2018 22:27

To: Sodergren, Marie-Claire <sodergren@ilo.org>

Cc: ILOSTAT <ilostat@ilo.org>; CHEN Haoyi <chen9@un.org>; Lei, Weichen <lei@ilo.org>; Stoevska, Valentina <stoevska@ilo.org>;

Kapsos, Steven <kapsos@ilo.org>; Greising, Edgardo <greising@ilo.org>; GRUM Francesca <grum@un.org>

Subject: RE: Minimum set gender indicator SDMX API - ILO

Dear Marie-Claire

Thank you for your previous efforts towards automating data collection process for minimum set gender indicator using ILOSTAT's SDMX API. We would like to inform you that now we are validating the collected data. Also where applicable we first collect the data through SDG's SDMX API to reduce duplicate data stored across the UNSD system. In this regards, we are collecting three indicators that ILO is the custodian agencies for minimum set gender indicator through SDG's API, and the rest through ILO's API. Details can be found in attached file "ILO Indicators.xlsx".

Regarding the Metadata, as you had suggested, we are updating the total number of countries. In doing so, we found that indicators 08, 10, 14 have reduced number of countries than previous year. This is why we are also attaching the overall data collected and the Metadata to verify that it is correct "ILO_VerificationUpdateRequest_2018.xlsx".

Also we are trying to adopt the SDG's metadata contents where applicable to automate this process as well. Metadata for indicators 09, 10, 45 can be extracted through SDG's metadata, and we have included both metadata for those indicators. Please let us know if we should move towards the SDG's metadata content or the existing metadata is better in this case.

Finally, when validating the retrieved data from API with our existing database, we found few inconsistencies in some countries. You can find it in "ILO_DataDifference.xlsx". I am guessing most of them were data revisions and corrections, just wanted your confirmation on them.

Thank you for your kind help and suggestions

Best Regards

Samrat

From: Sodergren, Marie-Claire [<mailto:sodergren@ilo.org>]

Sent: Thursday, 17 May, 2018 8:56 AM

To: Samrat Maskey <samrat.maskey@un.org>

Cc: ILOSTAT <ilostat@ilo.org>; Haoyi Chen <chen9@un.org>; Lei, Weichen <lei@ilo.org>; Stoevska, Valentina <stoevska@ilo.org>;

Kapsos, Steven <kapsos@ilo.org>; Greising, Edgardo <greising@ilo.org>

Subject: RE: Minimum set gender indicator SDMX API - ILO

Dear Samrat,

Excellent work! It is expected that you would have a lot more data than what we provided last year since we continuously update our database including for historical years. I closely compared the 2 files and the vast majority of the new records are either newly available data for 2016-2017 or historical records we recently added thanks to our increased efforts in microdata processing.

Just a minor suggestion would be to include a space after the colon in the footnotes (when concatenating the note type and note value).

Regarding the note for population type, I will let Edgardo answer that since on my side I see 3 items listed in the code list.

Best regards,
Marie-Claire

From: Samrat Maskey [<mailto:samrat.maskey@un.org>]

Sent: 16 May 2018 19:26

To: Greising, Edgardo <greising@ilo.org>; Sodergren, Marie-Claire <sodergren@ilo.org>

Cc: ILOSTAT <ilostat@ilo.org>; CHEN Haoyi <chen9@un.org>; Lei, Weichen <lei@ilo.org>; Stoevska, Valentina <stoevska@ilo.org>;

Kapsos, Steven <kapsos@ilo.org>

Subject: RE: Minimum set gender indicator SDMX API - ILO

Dear Marie-Claire and Edgardo

Thanks for your helpful suggestions, I am in the process of automating the data collection by API.
Attached is the post-processed data for indicator-3 that I generated.

While comparing the data from previous year that you provided, I realize that the generated data from API has more records. So I guess, when you generated the data, you excluded some Source, or repositories. If so, could you please let me know the sources or repositories to exclude.

Dear Edgardo

The retrieved codelist for “Population type” has only one value “Not Applicable”

http://www.ilo.org/ilostat/sdmx/ws/rest/codelist/ILO/CL_NOTE_T1?format=compact_2_1

But while comparing the data generated with the one previously provided, I found in one of the footnote “Population type: De Jure” Could I be missing something?

Thanks and regards

Samrat

From: Greising, Edgardo [<mailto:greising@ilo.org>]

Sent: Wednesday, 02 May, 2018 7:43 AM

To: Samrat Maskey <samrat.maskey@un.org>; Sodergren, Marie-Claire <sodergren@ilo.org>

Cc: ILOSTAT <ilostat@ilo.org>; Haoyi Chen <chen9@un.org>; Lei, Weichen <lei@ilo.org>; Stoevska, Valentina <stoevska@ilo.org>;

Kapsos, Steven <kapsos@ilo.org>

Subject: RE: Minimum set gender indicator SDMX API - ILO

Dear Samrat,

I'll let Marie-Claire answer the part relating to the notes' concepts and will focus myself on the SDMX-related questions.

The query you did is ok for querying for indicator 03a, women. I think you already realized which is the order of the dimensions as to be able to filter in the URL: the first 5 are always COLLECTION, COUNTRY, FREQ, SURVEY, REPRESENTED_VARIABLE, followed by the classifications (breakdowns, up to six) which order is determined by the DSD. Normally, the order is the same as in the indicator id (in the example, EAP_DWAP_SEX_AGE_RT □ the classifications are Sex and then Age).

If you use DF_YI_CAN_EAP_DWAP_SEX_AGE_RT as dataflow id instead, you will get the series for all the countries in a single query.

Regarding the notes concepts, the answer is yes, you need to query for the code lists in order to get the description, since most of our notes are enumerated attributes, and there is no standard parameter in the REST API to request for labels instead of codes.

To get the codelists you can query the DSD with “references= descendants”

(http://www.ilo.org/ilostat/sdmx/ws/rest/datastructure/ILO/YI_CAN_EAP_DWAP_SEX_AGE_RT/?format=compact_2_1&references=descendants)

and you'll have all the code lists available for your processing, or you may choose to query for the DSD without references (shorter) and whenever you need a label look for the code list name in the LocalRepresentation of the concept in the DSD and query for the specific codelist.

Please be aware that the codelist for SURVEY when retrieved in the context of a global DSD (country = ALL) is very big (more than 100K lines and 7MB). To make it “lighter” we have created sub-codelists for each country which id is CL_SURVEY_<cou>, e.g. CL_SURVEY_CAN.

By the way, for choosing the “best” series according to the source “ranking”, you have to look at the “Sort” annotation in CL_SURVEY (or CL_SURVEY_<cou>). For your use case, SURVEY_ID #147 has a Sort value of 12 while #976 Sort is 80, so #147 prevails.

Regarding the metadata, currently all metadata is included in attributes, and is mostly descriptive metadata. Most of these attributes are coded, and the codelist includes two annotations which are relevant to interpret the metadata. The “Note_Group” tells about the type of metadata it is, and can be SRC_NOTE (Source), IND_NOTE (Indicator) or CLA_NOTE (Classification). These are also important to distinguish the “level” of the note, since all the attributes are attached at the observation.

The other important annotation is “Display_Mode” which provides the suggested presentation for this note; it can be META (metadata), FOOT (footnote, i.e. a caveat on certain not expected condition) or ALL (it is a footnote but it is suggested to be listed among metadata as well).

You can find all this information and more extensions of our API in the attached guide.

Finally, we are not including typical reference metadata in our SDMX API yet, although some of the notes might be considered as such, provided they refer to methodological aspects.

We are part of the SDMX for SDGs WG and we plan implement the global artefacts as soon as they are released in the coming months.

Hope this help. But don't hesitate to contact us if you have further questions.

Best regards,
Edgardo.

Edgardo Greising

Head of Unit
Microdata and Knowledge Management Unit
Department of Statistics (STATISTICS)
International Labour Organization (ILO)
Avenue de la Paix 7bis - 1211 Geneva
WMO Building - Office 3.J.86
Tel +41 22 799 6224



From: Samrat Maskey [<mailto:samrat.maskey@un.org>]

Sent: 01 May 2018 17:29

To: Sodergren, Marie-Claire <sodergren@ilo.org>

Cc: ILOSTAT <ilostat@ilo.org>; CHEN Haoyi <chen9@un.org>; Greising, Edgardo <greising@ilo.org>; Lei, Weichen <lei@ilo.org>;

Stoevska, Valentina <stoevska@ilo.org>; Kapsos, Steven <kapsos@ilo.org>

Subject: RE: Minimum set gender indicator SDMX API - ILO

Dear Marie-Claire

Thank you very much for identifying the indicator codes and questions which are very helpful to identify the steps ahead. This is a good start for us.

Regarding the post processing of retrieved sdmx data, we can do it, but would need your guidance in verifying that the data that we are choosing is the correct one. Could you or Edgardo or Weichen please help me verify below series selection is correct:

[http://www.ilo.org/ilostat/sdmx/ws/rest/data/ILO,DF_Y1_CAN_EAP_DWAP_SEX_AGE_RT/.....SEX_F.AGE_YTHADULT_Y15-24?
format=compact_2_1&startPeriod=1990-01&endPeriod=2018-03](http://www.ilo.org/ilostat/sdmx/ws/rest/data/ILO,DF_Y1_CAN_EAP_DWAP_SEX_AGE_RT/.....SEX_F.AGE_YTHADULT_Y15-24?format=compact_2_1&startPeriod=1990-01&endPeriod=2018-03)

The query returns 2 series of Canada with survey value 147 and 976. Is it that we have to choose survey 147 in this case, or should we be looking at a different parameter?

We will handle the footnotes 1-6 and coverage notes. Could you please help us to identify, which note concept goes to which footnotes and coverage.

Finally, regarding the metadata collection, I can update the country count for the moment, but also would like to let you know that we are planning to move towards the metadata structure similar to that disseminated by SDG. I am including their draft collection template within. We will let you know when it is finalized.

Dear Edgardo and Weichen

In regards to filling the note concepts to the data retrieved through API, do I need to get the codelist of all the note concepts separately first, and then finally call the data API and map the note key with the codelist? Or is there something I can add in the data API query to include the note concept description as well? Looking forward to your kind suggestions.

Thank you again and looking forward to this collaborative effort in automate the data collection process using SDMX API.

Best regards
Samrat

Samrat Maskey | Associate Information System Officer, EDGE Project

Demographic and Social Statistics, UNSD | Department of Economic and Social Affairs

United Nations | Room DC2-1541D | Email: samrat.maskey@un.org | Tel: +1 (212) 963 9993 | www.un.org/desa

From: Sodergren, Marie-Claire [<mailto:sodergren@ilo.org>]

Sent: Monday, 30 April, 2018 9:07 AM

To: Samrat Maskey <samrat.maskey@un.org>

Cc: ILOSTAT <ilostat@ilo.org>; Haoyi Chen <chen9@un.org>; Greising, Edgardo <greising@ilo.org>; Lei, Weichen <lei@ilo.org>;

Stoevska, Valentina <stoevska@ilo.org>; Kapsos, Steven <kapsos@ilo.org>

Subject: RE: Minimum set gender indicator SDMX API - ILO

Dear Samrat,

Thank you for email. We are definitely interested in pursuing this data channel for reporting. Please see the table completed below, to which I added two indicators not in your original list but which we also provide to UNSD (in green).

I have a few questions:

- ILOSTAT can provide multiple observations per country/year for a given indicator. We only provide 1 observation per country/year when reporting to UNSD. How will you handle this? We developed an internal mechanism to systematically prioritize series (using the lowest survey sort order) but are you able/willing to do this yourself as it will require post-processing of the data retrieved via SDMX? The survey code list available via SDMX includes the survey sort.
- Will you handle the footnotes 1-6 and coverage notes (right-hand columns on the data sheets)? Notes are also transferred via SDMX alongside the data.
- How do you plan on collecting the metadata previously collected on separate sheets than the data? Essentially, there will be no change except to the country count so could you update that on your end?

While the Data Production and Analysis Unit (DPAU) is responsible for the data, my colleagues Edgardo and Weichen (cc'd) in the Microdata and Knowledge Management Unit (MKMU) can guide you on using our SDMX API so please do not hesitate to contact them on those matters. Meanwhile please do contact me should you have questions on the data content side.

I would also like to let you know that we are part of an inter-agency group working on a global DSD for labour statistics and may tweak our ILOSTAT codes in the coming year based on the final DSD.

Best,
Marie-Claire

Indicator	API – bothsex	API - female	API - male
03a Labour force participation rate for persons aged 15-24, by sex	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_Y15-24 sex=SEX_T	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_Y15-24 sex=SEX_F	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_Y15-24 sex=SEX_M
03b Labour force participation rate for persons aged 15+, by sex	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_YGE15 sex=SEX_T	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_YGE15 sex=SEX_F	collection=YI indicator=EAP_DWAP_SEX_AGE_RT classif1=AGE_YTHADULT_YGE15 sex=SEX_M
04 Proportion	collection=YI indicator=EMP_TEMP_SEX_STE_DT	collection=YI indicator=EMP_TEMP_SEX_STE_DT	collection=YI indicator=EMP_TEMP_SEX_STE_DT

of employed who are own-account workers, by sex	classif1=STE_ICSE93_3 sex=SEX_T	classif1=STE_ICSE93_3 sex=SEX_F	classif1=STE_ICSE93_3 sex=SEX_M
05 Proportion of employed who are contributing family workers, by sex	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_5 sex=SEX_T	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_5 sex=SEX_F	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_5 sex=SEX_M
06 Proportion of employed who are employers, by sex	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_2 sex=SEX_T	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_2 sex=SEX_F	collection=YI indicator=EMP_TEMP_SEX_STE_DT classif1=STE_ICSE93_2 sex=SEX_M
08a Percentage distribution of employed population in agricultural sector, by sex	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1= ECO_SECTOR_AGR sex=SEX_T	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1= ECO_SECTOR_AGR sex=SEX_F	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1= ECO_SECTOR_AGR sex=SEX_M
08b Percentage distribution of employed population in industrial sector, by sex	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_IND sex=SEX_T	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_IND sex=SEX_F	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_IND sex=SEX_M
08c Percentage distribution of employed population in service sector, by sex	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_SER sex=SEX_T	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_SER sex=SEX_F	collection=YI indicator=EMP_TEMP_SEX_ECO_DT classif1=ECO_SECTOR_SER sex=SEX_M
09 Informal employment as a percentage of total non-agricultural employment , by sex	indicator=IFL_XIEM_SEX_ECO_IFL_RT classif1=ECO_TOTNAG_NAG classif2=IFL_COMP_INFEMP sex=SEX_T	indicator=IFL_XIEM_SEX_ECO_IFL_RT classif1=ECO_TOTNAG_NAG classif2=IFL_COMP_INFEMP sex=SEX_F	indicator=IFL_XIEM_SEX_ECO_IFL_RT classif1=ECO_TOTNAG_NAG classif2=IFL_COMP_INFEMP sex=SEX_M
14 Proportion of employed working part-time, by sex	collection=YI indicator=EMP_PTER_SEX_RT sex=SEX_T	collection=YI indicator=EMP_PTER_SEX_RT sex=SEX_F	collection=YI indicator=EMP_PTER_SEX_RT sex=SEX_M
45 Women's share of	Collection=YI indicator=EMP_XFMG_NOC_RT		

managerial positions

Marie-Claire Sodergren
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From: Samrat Maskey [<mailto:samrat.maskey@un.org>]
Sent: 27 April 2018 22:40
To: Sodergren, Marie-Claire <sodergren@ilo.org>
Cc: ILOSTAT <ilostat@ilo.org>; CHEN Haoyi <chen9@un.org>
Subject: Minimum set gender indicator SDMX API - ILO

Hi Marie-Claire and Valentina,

Thank you for your previous efforts in providing data for the Minimum Set of Gender Indicators which is available on our online platform (<https://genderstats.un.org/#/home>).

I am Samrat and I am working together with Minimum Set of Gender indicator team to automate and prepare the dataset for Minimum set gender indicators through SDMX API where applicable.

Since the source of the data collected through ILO was ILOSTAT, we were wondering if we could use API to collect data automatically starting from this year.

We would appreciate your kind help and suggestion in identifying and creating the API link to the indicators if you think it is possible. If it is not possible, we will follow our old approach of collecting data through excel files.

Indicator	API – bothsex	API - female	API - male
03a Labour force participation rate for persons aged 15-24, by sex			
03b Labour force participation rate for persons aged 15+, by sex			
04 Proportion of employed who are own-account workers, by sex			
05 Proportion of employed who are contributing family workers, by sex			
06 Proportion of employed who are employers, by sex			
08a Percentage distribution of employed population in agricultural sector, by sex			
08b Percentage distribution of employed population in industrial sector, by sex			
08c Percentage distribution of employed population in service sector, by sex			
14 Proportion of employed working part-time, by sex			

Looking forward for your kind help and suggestion.

Thanks and Regards

Samrat Maskey | Associate Information System Officer

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