

Explorer

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Topics

- Global attitudes towards GBV
- World Bank
- Information Hub
- Female Reproductive Health
- Tools and Data

Welcome to the information hub documentation page

This documentation is not required to use the global attitudes towards gender based violence pages. This documentation is aimed at providing a technical documentation of all resources, models and functionality used. That being said, it will also provide high level details which are helpful in understanding the technical components.

For an entry level guide on all pages and using the main components of each page, please see [How to use this site](#) at the top of the left-hand pane.

Section summary

Global attitudes section is geared towards understanding attitudes towards GBV. This includes understanding under what circumstances individuals find GBV acceptable and trying to understand the drivers for these beliefs. These sections allow high level understanding of GBV across Africa.

Overall, the gender attitudes section has 3 pages:

- Documentation (this page)
- Laws
- Publications
- Support contacts

These pages draw on the following resources:

- Laws data - raw files can be found in our [Data Portal](#) under the 'Tools and Data' section
- Publication data - raw publications and publications along with their summaries can be found in our [Data Portal](#) under the 'Tools and Data' section
- Source code
 - Laws translation is done on the fly and included in the dash app instance code. This can be found in our dashapp folder `app/views/info_laws`
 - Publication summarisation is a pre-processing set on all publication. The code is located with other etls `etl_scripts/information_hub/info_publications`

Laws

§ Overview

This is one of the less technical sections regarding documentation.

The laws information page aims to provide a robust solution to work with laws data. This includes:

- Helpful search functionality
- Translation services powered through Deep Translators google translate component

With each law that is displayed, the following details are provided:

- Year or publication
- Form of violence the law relates to
- The mechanism which is used to address GBV
- The country of the law

Helpful search functionality

- Country filter to hone in on specific countries. The cluster to which a country belongs is appended to the country name. This assists in finding Laws relevant to a given country. For example, Kenya is in cluster 1 so if we want to find laws that might be relevant we could filter for South Africa as it is also in cluster 1 and might have laws which are more relevant to Kenya than the average country
- Mechanism filter which looks for certain laws which contain specific mechanisms. For example 'Prevent' or 'Justice'
- Law filter which selects the title of a law which is to be viewed. These titles are only in their original language. However, once selected the language will be filtered to that of the selected language.

Translation services powered through Deep Translators google translate component

The translation service is quite simple. If no language is selected, laws and their titles will not be translated. If a language is selected then both the law and the displayed title will be translated.

Publications

§Overview

The publications is another one of the less technical sections regarding documentation.

The publications provides a more user friendly way to interact with the provided publications. That is, users are provided with:

- Full publication texts
- Machine learning generated summaries

Full publication texts

The full publication text for all publications, as provided, is found under a collapsible section. When the section is not expanded only a summary of the publication is show. One of the major limiting factors to **accessibility** was the complex nature of the unstructured text with little formatting. For example, articles often did not contains line breaks. Therefore, to increase accessibility, publications were summarised

Machine learning generated summaries

All publications come with summaries which are generated using machine learning. The method leveraged was a google transformer package. The approach was:

- Tokenize the articles
- Use a sequence to sequence model to create a summary
- That is, the model takes the full publication as an 'input' sequence and then provides a summary as an 'output' sequence
- The model utilises a pre-trained model, which is common in the NLP space
- The pre-trained model is known as 't5'
- The particular implementation is the 't5-base'

The model parameters for creating the summary were set to create most summaries between 60 and 120.

- min_length=30
- max_length=200
- length_penalty=30
- num_beams=2

Inspiration for this article was drawn from a medium article on [Google's T5 text summarisation](#)

Support contacts

§ Overview

This section requires minimal documentation. Overall, support contacts is a community page where the community will be contributing all the resources seen on the page via posts.