

Exploratory Data Analysis (EDA)

In this section, we present key visualizations to explore and understand the patterns in the SVAC dataset before proceeding to the modeling phase:

Dataset SVAC

	year	conflictid	actor	actorid	actor_type	type	incomp	region	location	gwr
0	1,989	205	Iran	114	1	3	1	2	Iran	630
1	1,989	205	KDPI	164	3	3	1	2	Iran	630
2	1,990	205	Iran	114	1	3	1	2	Iran	630
3	1,990	205	KDPI	164	3	3	1	2	Iran	630
4	1,991	205	Iran	114	1	3	1	2	Iran	630
5	1,991	205	KDPI	164	3	3	1	2	Iran	630
6	1,992	205	Iran	114	1	3	1	2	Iran	630
7	1,992	205	KDPI	164	3	3	1	2	Iran	630
8	1,993	205	Iran	114	1	3	1	2	Iran	630
9	1,993	205	KDPI	164	3	3	1	2	Iran	630

Step 1: Analyzing Variable "Sexual Violence"

Prevalence of Sexual Violence: An ordinal variable measuring the intensity of sexual violence, ranging from 0 (no violence) to 3 (massive, systematic violence). The dataset also accounts for missing data with a code of -99, ensuring transparency when information is not available.

Descriptive Statistics of sexual violence variables:

	state_prev	ai_prev	hrw_prev	child_prev
count	11,562	11,210	10,626	11,909
mean	0.1071	0.0594	0.0536	0.0498
std	0.4324	0.3128	0.3045	0.2601
min	0	0	0	0
25%	0	0	0	0
50%	0	0	0	0
75%	0	0	0	0
max	3	3	3	3

First five rows of the dataset:

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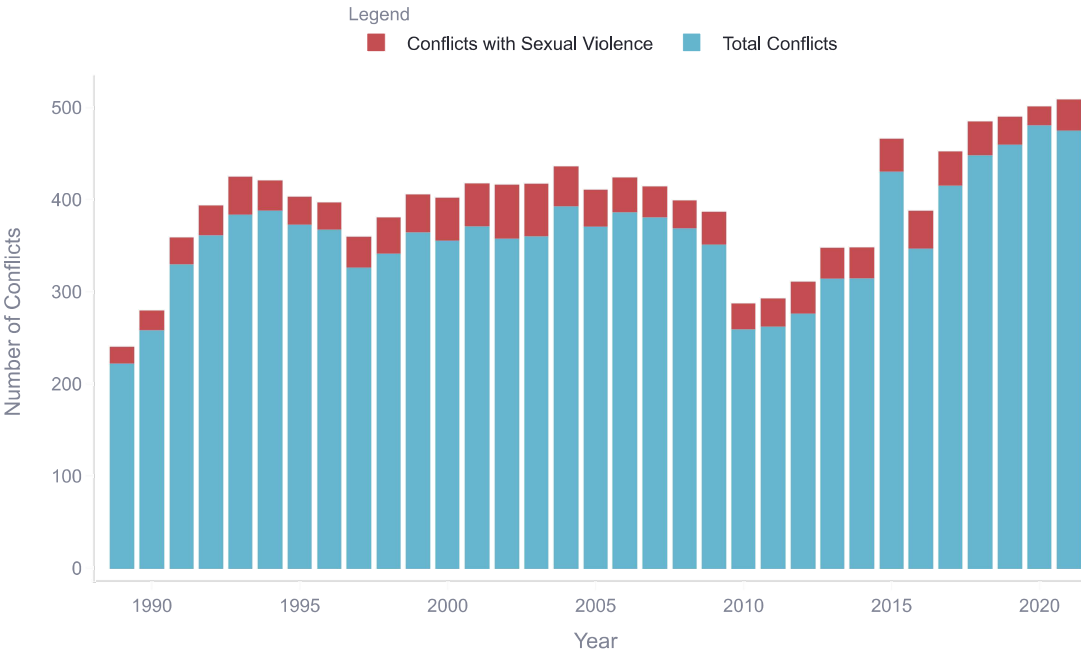
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Authors

[Read more at The Hague Principles on Sexual Violence](#)

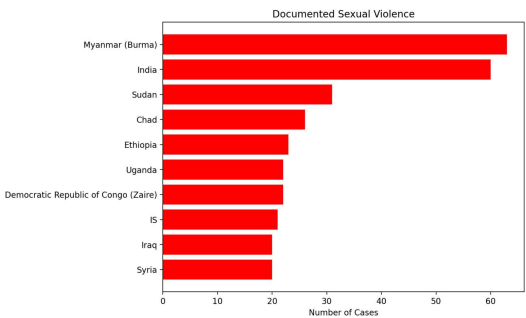
	actor	state_prev	ai_prev	hrw_prev	child_prev
0	Iran	0	0	0	0
1	KDPI	0	0	0	0
2	Iran	0	0	0	0
3	KDPI	0	0	0	0
4	Iran	0	0	0	0



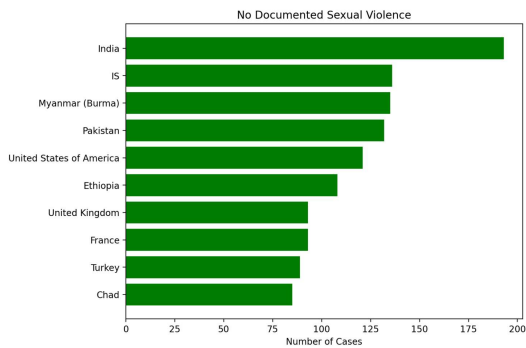
Interpretation Stackbar: Development of conflicts with sexual violence

The chart reveals that although conflicts fluctuate year to year, the proportion of conflicts involving sexual violence remains relatively stable, indicating that sexual violence is a persistent issue in conflict settings. Despite some years having more conflicts, this does not necessarily correlate with an increase or decrease in sexual violence incidents. This suggests that sexual violence may be driven by more specific factors than simply the prevalence of conflict.

Top 10 Actors with Documented Sexual Violence



Top 10 Actors with no Documented Sexual Violence



Interpretation: Top 10 Actors



It is interesting to see that some actors (such as Myanmar or India) that appear among the top actors with documented sexual violence also appear among the top actors without documented sexual violence. This might be due to the fact that these countries probably accumulate a lot of conflicts and that not all conflicts are accompanied by sexual violence. In the lower graph, cases of violence were reported but with no mention of sexual violence.