

SwiLTra-Bench: The Swiss Legal Translation Benchmark

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Abstract

In Switzerland legal translation is uniquely important due to the country's four official languages and requirements for multilingual legal documentation. However, this process traditionally relies on professionals who must be both legal experts and skilled translators creating bottlenecks and impacting effective access to justice. To address this challenge, we introduce SwiLTra-Bench, a comprehensive multilingual benchmark of over 180K aligned Swiss legal translation pairs comprising laws, headnotes, and press releases across all Swiss languages along with English, designed to evaluate LLM-based translation systems. Our systematic evaluation reveals that frontier models achieve superior translation performance across all document types, while specialized translation systems excel specifically in laws but under-perform in headnotes. Through rigorous testing and human expert validation, we demonstrate that while fine-tuning open SLMs significantly improves their translation quality, they still lag behind the best zero-shot prompted frontier models such as Claude-3.5-Sonnet. Additionally, we present SwiLTra-Judge, a specialized LLM evaluation system that aligns best with human expert assessments.¹

1 Introduction

Neural Machine Translation (NMT) is one of the most studied Natural Language Processing (NLP) tasks. From encoder-decoder pipelines (Dai and Le, 2015; Vaswani et al., 2017) to modern decoder-only models (Brown et al., 2020; Touvron et al., 2023) NMT systems based on large language models (LLMs) have in recent years achieved notable advancements in translating texts across various genres (Ou et al., 2023; Zhang et al., 2024; Han et al., 2024) and in both high- and low-resource

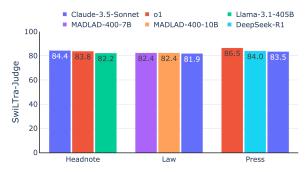


Figure 1: Best models per task.

languages (Moslem et al., 2023; Vilar et al., 2023; Alves et al., 2023; Oliver et al., 2024). Nevertheless, the shortage of high-quality multilingual parallel legal translation data for training LLMs has hindered the performance of state-of-the-art NMT systems in translating legal texts. This limitation is primarily due to the discourse structures (Wiesmann, 2019) and specialized terminology (Katz et al., 2023) of legal texts, which consequently result in the current limited degree of automation for translation in the legal domain.

In multilingual countries like Switzerland, where legal documents are primarily translated manually by experts, developing reliable NMT systems for legal texts would significantly improve governmental efficiency and reduce administrative bottlenecks (Martínez-Domínguez et al., 2020). Beyond operational benefits, such systems could democratize access to legal information by enabling faster and more cost-effective translations across multiple national languages. Especially in lower-resourced languages like Romansh where full translation coverage is not currently economical, support from highquality NMT systems could be game-changing. This broader accessibility would enhance the transparency of political decision-making and promote more inclusive civic participation (Moniz and Escartín, 2023). The potential impact extends beyond government operations to the private sector where law firms and businesses operating across linguistic

¹The datasets and code are available at https://huggingface.co/collections/joelniklaus/swiltrabench-67c569a2ada47e4549733deb

regions could benefit from improved legal translation capabilities, potentially reducing costs and accelerating legal processes while maintaining accuracy. Although initial efforts have been made to develop NMT systems for translating Swiss legal documents (Martínez-Domínguez et al., 2020; Canavese and Cadwell, 2024), it remains unclear how well current LLMs perform on large benchmarks for translating Swiss legal texts, both in zeroshot and fine-tuning settings.

To address the shortage of Swiss legal training data and advance legal translation, we present three main contributions:

- SWILTRA-BENCH: A large-scale benchmark of over 180K aligned Swiss legal translation pairs (laws, court decisions, press releases) spanning five languages (the four official Swiss languages plus English), substantially expanding available training data.
- 2. Comprehensive Model Comparison: The first large-scale evaluation of frontier LLMs and fine-tuned open SLMs on Swiss legal translations in both zero-shot and fine-tuning settings, providing insights into their relative strengths.
- 3. SWILTRA-JUDGE: An LLM-based method aligned with human expert annotations, offering a reliable automated framework to assess translation quality.

Our main findings are: a) frontier models consistently perform well across translation tasks; b) translation specific systems like MADLAD-400 are strong on laws but fall behind on headnotes; c) fine-tuning open SLMs drastically improves their translation quality but they are still behind zero-shot prompted frontier models; d) translation quality is uniform across languages; and e) agreement among human experts is higher for law translations than for headnotes.

2 SwiLTra-Bench

To support research in NMT, text alignment, and legal document processing, we present SwiLTra-Bench—a dataset uniting original legal texts and press releases on key court rulings.

2.1 Data Collection

SwiLTra-Bench contains three sub-datasets:

1. Swiss Law Translations (CH-Law-Trans), including law-level (entire legal documents), article-level (individual articles), and paragraphlevel (paragraphs within articles) translations.

(a) CH-Law-Trans dataset.

Source	Split	#file	#de	#fr	#it	#rm	#en
	Train	5,206	5,206	5,206	5,206	51	219
Law	Valid	10	10	10	10	10	10
	Test	20	20	20	20	20	20
	Train	129,070	126,308	127,049	126,223	8,680	16,347
Article	Valid	789	785	785	784	785	785
	Test	740	738	738	738	738	738
	Train	153,970	145,106	146,953	145,267	19,556	32,499
Paragraph	Valid	1,490	1,441	1,438	1,437	1,441	1,439
	Test	1,214	1,176	1,178	1,178	1,177	1,176

(b) CH-Headnote-Trans dataset.

Source	Split	#file	#de	#fr	#it
	Train	13,330	13,330	13,330	13,330
BGE	Valid	1,900	1,900	1,900	1,900
	Test	3,801	3,801	3,801	3,801
	Train	13,550	13,550	13,550	13,550
Regest	Valid	1,924	1,924	1,924	1,924
	Test	3,890	3,890	3,890	3,890
	Train	26,008	26,008	26,008	26,008
Text	Valid	3,805	3,805	3,805	3,805
	Test	7,316	7,316	7,316	7,316

(c) CH-Press-Trans dataset.

Source	Split	#file	#de	#fr	#it
Press	Train Valid Test	100	100	100	100

Table 1: Overall SWILTRA-BENCH corpus statistics. #file indicates the total number of files collected, while #de, #fr, #it, #rm, and #en represent the ones in the respective languages.

- 2. Headnote Translations (CH-Headnote-Trans) of Swiss Supreme Court landmark court decisions ("Bundesgerichtsentscheide" (BGE) in German, "Arrêts du Tribunal fédéral" (ATF) in French, and "Decisioni principali del Tribunale federale svizzero" (DFT) in Italian) at the BGE-level (complete summaries of court decisions), regest-level (summaries focused on core legal issues), and text-level (detailed extraction of specific legal statements).
- 3. Swiss Supreme Court Press Release Translations (CH-Press-Trans).

All datasets contain parallel translations in German (de), French (fr), and Italian (it). Additionally, for CH-Law-Trans, some documents contain translations in Romansh (rm) and English (en).

We provide details of the data structure with concrete dataset examples in Appendix D.

2.2 Dataset Splits

We first segment each dataset by a unique identifier (entire laws, entire headnotes, and entire press releases) to ensure that no single law, headnote, or press release is split across training, validation, and test. For laws, we prioritize examples for the validation and test splits that (1) have more language versions (to guarantee good multilingual coverage), (2) have an official abbreviation (since abbreviations are only set for those laws that are presumed to be cited frequently², which we consider a good proxy for practical importance, (3) have shorter text lengths to make evaluation faster and cheaper, and (4) have newer applicability dates so that more recent and multilingual laws are prioritized for validation and testing, resulting in a more realistic evaluation setting. For headnotes, we similarly prioritize those with more recent publication years for validation and test. Finally, for press releases, we focus on maximizing multilingual coverage by ensuring all validation and test examples are available in all present languages (German, French and Italian). The training sets contain all examples not held out for validation or testing.

2.3 Data Statistics

Table 1 presents the overall statistics of the three datasets included in SwiLTRa-Bench. We visualize the training set text lengths for the shortest levels used for training and evaluation in Figure B.1. For completeness, we show histograms for all levels in Figure B.2 and Figure B.3. To calculate these statistics, we used an NLTK³ word tokenizer, splitting sentences based on whitespace and punctuation.

Existing parallel legal corpora use automated methods for sentence alignment (Koehn, 2005; Ziemski et al., 2016). In SwiLTRa-Bench, we rely on the structure provided by the official government bodies such as law paragraphs embedded in the HTML, resulting in high-quality alignment.

3 Experimental Setup

3.1 Evaluation

To paint a representative picture of translation capabilities, we evaluate models across five main classes: 1) translation models, i.e., models specifically trained for translation tasks, 2) frontier models, i.e., large foundation models pre-trained on web-scale data and post-trained on diverse tasks, 3) reasoning models, i.e., models using significant resources at test time to improve output quality, 4) open models, i.e., typically small language models

(SLMs) with publicly available weights, and 5) fine-tuned models, i.e., models specifically fine-tuned on SwiLTRa-Bench. We conducted our evaluation using the lighteval framework due to its ease of use and good support for custom metrics.⁴

3.1.1 Metrics

We evaluated translations using lexical (BLEU (Papineni et al., 2002), ChrF (Popović, 2015), METEOR (Banerjee and Lavie, 2005)) and modelbased metrics (BERTScore (Zhang et al., 2020), BLEURT (Sellam et al., 2020), XCOMET (Guerreiro et al., 2024), GEMBA-MQM (Kocmi and Federmann, 2023)). Due to the 512-token limit, BLEURT and XCOMET cannot process press releases. Given GEMBA-MQM's strong correlation with human judgments, we prioritized it alongside XCOMET, METEOR, and ChrF, ensuring both lexical and trained metrics for diversity.

3.2 Fine-tuning

To provide an overview of the current open SLM landscape, we fine-tuned Gemma-2 2B and 9B (Team et al., 2024), Llama 1B, 3B and 8B (Grattafiori et al., 2024), Phi-3.5 mini and Phi-3 medium (Abdin et al., 2024), and Qwen2.5 0.5B, 1.5B, 3B, 7B, 14B and 32B (Team, 2024) models on our dataset. We fine-tuned using Hugging Face transformers⁵ and unsloth⁶ using 4bit quantization and 8bit AdamW (Loshchilov and Hutter, 2019; Dettmers et al., 2022) on a single 80GB NVIDIA H100 GPU. We used rank stabilized LoRA (Hu et al., 2021; Kalajdzievski, 2023) with rank 16 and alpha 16. We trained with the model's native chat template on sequence length 512, covering more than 99% of the training dataset and truncating the rest. We used packing, weight decay 0.01, batch size 128 and early stopping with patience 3. In most cases, the lowest evaluation loss is reached after exactly 1 epoch. We used a linear learning rate schedule with 1000 warmup steps and learning rate 1e - 4. We manually tuned the learning rate (1e - 5 - 1e - 3), weight decay (0.01, 0.1), label smoothing (factor 0, 0.01, 0.1) and LoRA rank (16, 128). We used the train and validation sets of the Law and Headnote translations on the lowest (shortest) levels, i.e., the paragraph and text levels. For all fine-tuned models, we used the instruction-tuned variant since they have shown to

²https://www.bk.admin.ch/apps/gtr/de/index.html

³https://www.nltk.org

⁴https://github.com/huggingface/lighteval

⁵https://github.com/huggingface/transformers

⁶https://github.com/unslothai/unsloth

better adapt to new tasks (Niklaus et al., 2024).

4 Results and Analysis

In the tables, we bolded the highest and underlined the second highest score per metric. Unless stated otherwise, we excluded Romansh from the evaluations to ensure comparability, since it is not supported by the translation models. Unless stated otherwise, results are averaged over source languages, target languages, and tasks. In general, we considered the law and headnote translation tasks at the highest granularity (paragraph-level and text-level) so we can compare all model categories (translation models and fine-tuned models are optimized for shorter sequence lengths). We show all metrics with standard errors obtained through bootstrapping. Higher values are better for all metrics.

4.1 Translation Models

We compare translation models in Table 2. Surprisingly, Google-Translate performs poorly compared to open translation models like MADLAD-400 (Kudugunta et al., 2024) and Tower-Instruct. Facebook's SeamlessM4T (Communication et al., 2023) model's text-to-text capabilities also underwhelm. MADLAD-400 performs very well, outperforming GPT-40 on XCOMET. The Tower (Alves et al., 2024) models land somewhere in between.

Model	Size	↑ GEMBA-MQM	↑ XCOMET	↑ METEOR	↑ ChrF
Google-Translate	N/A	53.20 ± 0.2	64.61 ± 0.1	41.15 ± 0.1	47.81 ± 0.1
MADLAD-400-3B	3B	62.89 ± 0.1	86.82 ± 0.1	42.44 ± 0.1	51.36 ± 0.1
MADLAD-400-7B	7B	62.66 ± 0.1	87.40 ± 0.1	43.70 ± 0.1	51.67 ± 0.1
MADLAD-400-10B	10B	61.46 ± 0.1	86.65 ± 0.1	43.10 ± 0.1	52.24 ± 0.1
SeamlessM4T	2B	23.35 ± 0.2	43.03 ± 0.1	37.81 ± 0.1	24.90 ± 0.1
TowerInstruct-7B	7B	54.04 ± 0.2	72.97 ± 0.1	41.65 ± 0.2	43.00 ± 0.1
TowerInstruct-13B	13B	57.38 ± 0.2	75.94 ± 0.1	43.95 ± 0.2	48.46 ± 0.1

Table 2: Translation models across different families and sizes.

4.2 Frontier Models

We show results for frontier and reasoning models in Table 3. GPT-40 underperforms both of its peers Claude-Sonnet and Llama-3.1-405B. This is particularly unexpected, as models tend to favor their own completions (Panickssery et al., 2024), and GEMBA-MQM is operated by GPT-40. Claude-Sonnet demonstrates strong performance, competing closely with o1, the top-performing model. Surprisingly, o1-mini performs only on par with the other models at the smaller scale and even underperforms Claude-Haiku. Overall, Anthropic's models are really strong, and even more so from a cost-to-performance perspective compared to reasoning models like o1.

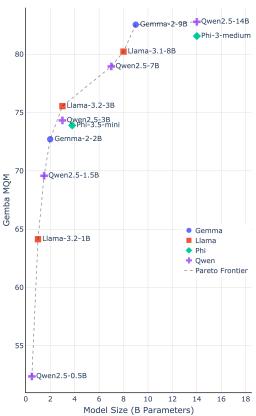


Figure 2: Finetuned models across different sizes.

4.3 Fine-tuned Models

Fine-tuning leads to notable performance gains (see Appendix Table C.1). Figure 2 presents fine-tuned models' performance across various sizes. The two Gemma models and particularly the Llama 1B and 3B models, advance the Pareto frontier, though performance starts to flatten at the 3B scale and plateaus after 9B parameters. Interestingly, both Phi models clearlyunderperform their peers.

4.4 Performance Progression by Model Size

The Qwen2.5 model family, with six sizes from 0.5B to 32B parameters, is ideal for studying performance progression over model size. We analyzed fine-tuned Qwen models up to 32B using five metrics (two model-based, three lexical) in Figure 3.

Model	Size	$\uparrow \textbf{GEMBA-MQM}$	$\uparrow \textbf{XCOMET}$	$\uparrow \mathbf{METEOR}$	↑ ChrF
Claude-3.5-Sonnet	large	80.66 ± 0.2	90.70 ± 0.1	56.71 ± 0.2	65.87 ± 0.1
DeepSeek-V3	large	80.04 ± 0.2	89.77 ± 0.1	56.60 ± 0.1	69.99 ± 0.1
DeepSeek-R1	large	77.90 ± 0.2	84.36 ± 0.1	55.79 ± 0.1	69.12 ± 0.1
GPT-40	large	80.27 ± 0.2	80.96 ± 0.1	55.56 ± 0.1	63.27 ± 0.1
Gemini-1.5-Pro	large	81.88 ± 0.2	87.13 ± 0.1	57.92 ± 0.1	70.07 ± 0.1
Llama-3.1-405B	large	81.59 ± 0.1	89.37 ± 0.1	54.48 ± 0.1	68.07 ± 0.1
Mistral-Large	large	81.88 ± 0.2	87.04 ± 0.1	54.86 ± 0.1	63.71 ± 0.1
o1	large	85.81 ± 0.1	91.35 ± 0.1	58.91 ± 0.1	70.11 ± 0.1
Claude-3.5-Haiku	small	80.40 ± 0.2	88.84 ± 0.1	52.15 ± 0.2	61.09 ± 0.1
GPT-4o-mini	small	82.59 ± 0.2	87.90 ± 0.1	54.03 ± 0.1	59.86 ± 0.1
Gemini-1.5-Flash	small	80.76 ± 0.2	85.33 ± 0.1	55.35 ± 0.1	65.44 ± 0.1
Llama-3.3-70B	small	79.25 ± 0.2	88.02 ± 0.1	53.43 ± 0.1	65.92 ± 0.1
Mistral-Small	small	81.69 ± 0.2	87.04 ± 0.1	54.83 ± 0.1	63.66 ± 0.1
o1-mini	small	81.96 ± 0.2	87.46 ± 0.1	53.34 ± 0.1	59.32 ± 0.1

Table 3: Frontier models across different families and sizes.

METEOR is the only lexical metric well correlated with XCOMET and GEMBA-MQM. All three confirm a clear trend that larger models produce higher-quality translations. GEMBA-MQM shows the largest score range (GEMBA-MQM: 52.4 - 82.8 vs XCOMET: 69.5 - 87.9 and METEOR: 56.8 - 65.1) and making it most useful for differentiating models. Interestingly, both ChrF and BLEU are negatively correlated with the model-based metrics on this task for the fine-tuned Qwen models. Beyond the inherent subjectivity in assessing translation quality, this may hint at the greater importance of a legal text's conveyed meaning over the mere use of certain exact terms.

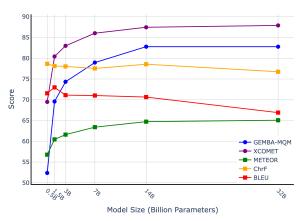


Figure 3: Lexical (square) and model-based (circle) metrics vs model size for finetuned Qwen models.

4.5 Comparison Across Tasks

In Table 4, we show the best models' performance per category across tasks. The best open small model falls far behind the others but, with fine-tuning, overtakes the best translation model. It matches the smaller frontier models but still lags behind the larger ones. All models except MADLAD-400-7B perform better on headnote than law translation. While Sonnet competes with o1 on headnote and law translation, it falls off on press releases.

Model	Category	Task	↑ GEMBA-MQM	↑ METEOR	↑ ChrF
o1	reasoning	Headnote	93.50 ± 0.1	60.89 ± 0.1	62.62 ± 0.2
o1	reasoning	Law	91.11 ± 0.1	55.87 ± 0.1	66.84 ± 0.1
o1	reasoning	Press	64.62 ± 0.4	59.28 ± 0.3	78.38 ± 0.1
Claude-3.5-Sonnet	frontier	Headnote	88.65 ± 0.1	61.39 ± 0.1	63.96 ± 0.2
Claude-3.5-Sonnet	frontier	Law	85.71 ± 0.1	52.16 ± 0.1	73.15 ± 0.1
Claude-3.5-Sonnet	frontier	Press	60.83 ± 0.8	55.29 ± 0.5	55.47 ± 0.1
MADLAD-400-7B	translation	Headnote	80.54 ± 0.2	57.71 ± 0.1	67.49 ± 0.2
MADLAD-400-7B	translation	Law	85.06 ± 0.2	57.09 ± 0.2	61.86 ± 0.2
SLT-Qwen2.5-32B	finetuned	Headnote	82.58 ± 0.1	66.56 ± 0.1	75.17 ± 0.2
SLT-Qwen2.5-32B	finetuned	Law	80.80 ± 0.2	64.41 ± 0.1	76.90 ± 0.1
Qwen2.5-14B	open	Headnote	69.88 ± 0.2	47.09 ± 0.1	53.58 ± 0.2
Qwen2.5-14B	open	Law	63.04 ± 0.2	34.33 ± 0.1	52.02 ± 0.1

Table 4: Best models per category across different tasks.

4.6 Comparison Across Languages

In Figure 4, we compare the best models per category across language directions on CH-Law-Trans. Performance to and from German, French, and Italian is homogeneous across models. When translating from English to the other languages, all models perform worse than from the three main Swiss languages. Since the English source texts are already translations and are not legally binding, the federal translators may have applied less rigor in generating them, potentially resulting in lower quality and slight deviations. Anecdotally, the lawyers co-authoring this work confirm that the English source texts are occasionally less precise. So, the lower scores may also indicate that the judge model bases its grading on imperfect source text. Romansh is a low-resource language and only spoken by less than 50K people in Switzerland.⁷ It is not supported by most translation models such as MADLAD-400. Surprisingly, o1 and Sonnet still perform very well when translating from Romansh to other languages. When translating to Romansh, all models' quality drops off, sometimes sharply. Perhaps similar to humans, also for LLMs speaking or writing a language seems harder than understanding it.

5 Expert Evaluation

To study how well human legal experts agree with the automated metrics, we conducted an expert evaluation. All experts are authors of the paper; the majority are doctoral candidates, and all hold at least a Bachelor's degree in Swiss law. We only evaluated the laws and headnotes since they are much shorter and we could evaluate more examples in the time available. Due to limited expert time, we selected the top model from four categories: frontier (Claude-3.5-Sonnet), reasoning (o1), translation (MADLAD-400-7B) and finetuned (SLT-Qwen2.5-32B).

The experts were asked to assign a score between 0 and 100 to each translation. For this purpose, the experts were given a source text, its "gold translation" (official translation of the Swiss authorities) as a reference and a predicted translation. The scores only reflected the completeness and accuracy of the predicted translation, with less emphasis on readability and other stylistic attributes. To ensure consistency, the experts agreed on a point

⁷https://www.bfs.admin.ch/bfs/de/home/statistiken/bevoelkerung/sprachen-religionen/sprachen.html

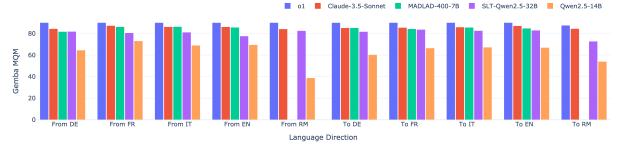


Figure 4: Best models per category across languages.

deduction system in advance and discussed certain borderline cases (annotation guidelines are in Appendix G). In total, 200 translations were assigned a score by at least two experts. Each expert assigned scores independently, without consulting the other annotators. For the expert agreement with judge metrics (see section 6) and for the evaluation of the best models (see subsection 5.2), we averaged the scores of the two annotators.

5.1 Inter-Annotator Agreement

The average Krippendorff's α was 0.56 for laws and 0.41 for headnotes. Agreement was generally higher for laws than for headnotes, likely because laws in our dataset were typically shorter. The moderate inter-annotator agreement suggests that, despite clear instructions, a certain degree of subjectivity was inherent in the task. In addition, we observed smaller differences between the individual language pairs, suggesting that not all annotators were perfectly aligned. However, disagreements tended to be minor and were rarely fundamental. In Figure 5 we show the absolute point difference between the two annotators evaluating the same samples. In almost half of the cases the two annotators completely agree and in 92% the difference is smaller than 30 points.

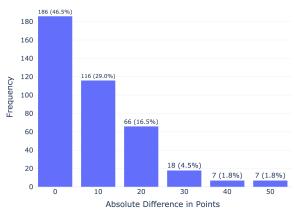


Figure 5: Absolute point difference between annotators.

5.2 Which Model is the Best?

In Table 5 we show the expert scores together with the best metrics for the best models per category. It is evident here that XCOMET aligns best with the experts. We conclude that both for translating laws and headnotes Claude 3.5 Sonnet is the best model followed by 01 for laws and both 01 and the finetuned Qwen2.5-32B model for headnotes.

Model	Task	↑ Experts	↑ XCOMET	↑ BLEURT	↑ GEMBA-MQM
Claude-3.5-Sonnet	Headnote	89.21 ± 2.2	90.91 ± 1.5	28.96 ± 3.7	86.53 ± 1.6
Claude-3.5-Sonnet	Law	94.55 ± 1.1	93.30 ± 1.1	34.16 ± 3.2	88.86 ± 1.2
MADLAD-400-7B	Headnote	71.77 ± 3.3	85.57 ± 2.8	12.20 ± 3.1	76.13 ± 4.9
MADLAD-400-7B	Law	83.77 ± 2.8	89.42 ± 2.3	28.97 ± 3.5	88.63 ± 2.0
SLT-Qwen2.5-32B	Headnote	84.86 ± 2.4	88.62 ± 2.1	30.78 ± 4.3	75.89 ± 4.2
SLT-Qwen2.5-32B	Law	85.74 ± 2.1	88.03 ± 2.2	36.42 ± 3.9	81.78 ± 2.5
o1	Headnote	84.29 ± 2.1	89.58 ± 1.8	16.77 ± 4.2	92.34 ± 1.4
o1	Law	89.91 ± 1.5	92.33 ± 1.5	28.19 ± 3.2	92.97 ± 1.0

Table 5: Expert scores for best models across categories

6 SwiLTra-Judge

Automatic evaluation of natural language generation is challenging. Lexical metrics like BLEU or METEOR correlate weakly with human judgments (Zhang et al., 2020). Early model-based metrics such as BERTScore or BLEURT perform better, but recently, LLM-as-Judge has emerged as the dominant paradigm (Zheng et al., 2023). Each task, however, is unique and requires its own judge setup. In this section, we ablate key aspects of the judge setup, including the judge model, prompt, and few-shot sample selection.

6.1 Setup

We use GPT-4o, GPT-4o-mini, Gemini-1.5-pro, and Gemini-1.5-flash in our judge model ablation. We also tested Claude Sonnet and Haiku as judges, but they failed to follow grading instructions. The o1 and o1-mini models showed very low or even negative correlations with human judgments and are thus excluded. We randomly selected one fewshot example from the dev sets of laws, headnotes,

⁸They would insist on generating JSON output while we very clearly just asked for plain-text.

and press releases. To ensure judge models saw diverse translation qualities, we chose models of varying strengths (Claude 3.5 Sonnet for laws, Mixtral-8x7B-Instruct-v0.1 for headnotes, and Qwen2.5-1.5B-Instruct for press releases). We used a simple prompt "Translate to target-language" to generate translations. Sample judgments per few-shot example were written by one lawyer author and double-checked by another. We tested two fewshot styles single (all examples in one language direction: fr-de) and diverse (law article en-it, headnote de-fr and press release fr-de). We ablated two user prompts with absolute grading (basic and detailed) and one with deduction grading similar to the codebook given to the human expert annotators (codebook). Judge prompts are in Appendix F.

We measured the correlation of our judge setups with the human expert scores on the 400 human annotated samples. To get a higher confidence signal, we removed samples where the two human experts disagreed by 30 points or more (32/400 or 8%). Find complete results in Table E.1. Unless specified otherwise, we report Spearman correlation with human judgments with cross validation. Based on our expert evaluation, we answer the following research questions (RQs):

RQ1: Are small models judges good enough?

A: Yes, the small models even outperform their larger counterparts. Over all tested configurations GPT-40 and GPT-40-mini are tied at 0.41 ± 0.08 mean Spearman correlation. Gemini-1.5-flash even outperforms Gemini-1.5-pro as a judge model $(0.33\pm0.07~{\rm vs}~0.27\pm0.09)$. For the best configuration GPT-40-mini even outperforms GPT-40 $(0.48\pm0.1~{\rm vs}~0.45\pm0.07)$ and the same holds for Gemini-1.5-flash vs Gemini-1.5-pro $(0.5\pm0.07~{\rm vs}~0.3\pm0.08)$.

RQ2: Is the deduction judgment style better than the absolute style?

A: Judges using the deduction style align more closely with human judgments. Across all configurations, there is little difference between the two absolute styles $(0.33\pm0.09~{\rm for}~basic$ and $0.32\pm0.08~{\rm for}~detailed$ user prompt). However, the deduction style aligns much more closely with experts (0.42 ± 0.08) . The top six highest correlating configurations all use the deduction style. This finding anecdotally confirms that LLM judge models reach judgments more similar to human experts when prompted in a more aligned way.

RQ3: Are few-shot examples in a single language pair sufficient, or is it necessary to include examples from diverse language pairs?

A: On average, the language directions of the few shot examples do not matter, but the best configuration uses diverse language directions. Across all 24 investigated configurations, there is no significant difference between the single and diverse language direction setup $(0.37 \pm 0.08 \text{ vs } 0.35 \pm 0.08, p = 0.49)$. However, the best configuration overall, uses diverse language directions.

RQ4: How does SwiLTra-Judge perform compared to other metrics?

A: Our SwiLTra-Judge exhibits the highest correlation with human judgments among tested translation metrics. Figure 6 shows Spearman correlation with human judgments for sample-level metrics (this excludes BLEU and ChrF). As expected, METEOR and BERTScore perform poorly, with correlations below 0.2. Surprisingly, the recent GEMBA-MQM metric both underperforms BLEURT and XCOMET. Our SwiLTra-Judge is significantly better than the second-best metric XCOMET $(0.5\pm0.07 \text{ vs } 0.48\pm0.09, p=0.0014)$.

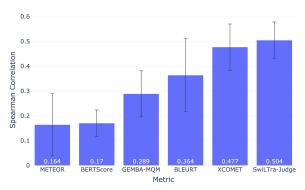


Figure 6: Spearman correlations with human expert scores.

6.2 Judge Harshness

In Figure 7 we show the average score over the best four generator models per category across judge models, system and few shot styles. We confirm here that the language directions of the few shot examples only has a minor effect. We see that the detailed system style leads to the harshest scores across models. Interestingly, Gemini-1.5-pro and GPT-40-mini judge very similarly in terms of harshness. All models except GPT-40 judge more leniently with the codebook system style.

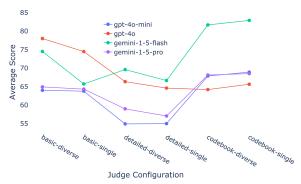


Figure 7: Judge harshness across configurations.

6.3 Best Model Per Task

Now that we built a trusted metric for our translation benchmark, we ran it over the entire dataset for all models. With this, we can recommend the best model for each task. In Figure 1 we show the top three models per task using SwiLTra-Judge as a metric. There are no large differences among top models, but the highest scores are achieved by Sonnet on headnotes, MADLAD-400-7B on laws and o1 on press releases. Sonnet ranks in the top 3 for all tasks. One reason for Sonnet's high scores could be that the few-shot example in the judge prompt with the highest score was translated by Sonnet, possibly making the judge models prefer its style. However, human experts clearly favored Sonnet without bias from few-shot examples.

7 Related Work

The application of NLP to legal texts has seen significant growth in recent years. This increased attention is driven by the growing need to automate and enhance legal processes, improve access to justice, and handle the vast amounts of legal documentation produced globally.

Recent research has explored various aspects of legal text processing. Legal judgment prediction has emerged as a crucial area, with studies demonstrating success across different jurisdictions, including the US (Semo et al., 2022), Europe (Vaudaux et al., 2023) and Switzerland (Niklaus et al., 2021, 2022). Notable advances have been made in verdict prediction (Medvedeva et al., 2020), topic classification (Papaloukas et al., 2021; Benedetto et al., 2023; Rasiah et al., 2023), and legal QA systems (Zhong et al., 2020). LegalBench (Guha et al., 2023) LexGLUE (Chalkidis et al., 2022) and LEXTREME (Niklaus et al., 2023) are established as comprehensive benchmark suites comprising multiple legal NLP tasks, including text classification, named entity recognition, and legal entailment

across various jurisdictions and legal areas.

The translation of legal texts has significant societal impact and is increasingly important for training translators and practical applications, especially as machine translation gains prominence (Killman, 2024). However, legal translation poses challenges due to domain-specific terminology, reliability in legal formulae, and non-compliance with legal conventions (Killman, 2023; Giampieri, 2023). While some U.S. courts have considered NMT, it remains far from replacing human translators (Vieira et al., 2021). Robust NMT systems are essential for judicial and governmental services, with recent advancements leveraging pretrained LLMs and finetuning techniques (Zhu et al., 2024). Prior research has focused on legal NMT for languages like Chinese, and Arabic (Ding, 2024; ElFqih and Monti, 2023). However, a significant research gap remains in translating legal texts between Switzerland's national languages, which our work aims to address.

8 Conclusions

In this work, we introduced SWILTRA-BENCH, a high-quality multilingual legal translation benchmark, and evaluated mainstream LLM-based NMT systems under both zero-shot and fine-tuned settings. Our analysis, validated by human expert annotations, showed that frontier models outperform all others, while translation-specific systems like MADLAD-400 excel on laws but struggle with headnotes. Fine-tuning open LLMs significantly improves their performance, though they still lag behind zero-shot frontier models, and translation quality remains consistent across Swiss languages. Finally, our SWILTRA-JUDGE model, optimized for legal translation evaluation, achieves the highest alignment with human expert judgments, providing a valuable automated metric for future research.

Limitations & Future Work

Our fine-tuned models are much stronger than the initial instruction-tuned open models they are based on, but they still under-perform large closed models. Future work could investigate techniques such as model merging (Yang et al., 2024) to further improve and bring them closer to the frontier models. While we evaluated a large variety of models, we could not evaluate them all. Future work could investigate other promising models such as Grok.⁹

⁹https://x.ai/blog/grok-2

We took great care to validate our results with human expert studies. However, our resources were limited and we could not investigate certain languages (e.g., Romansh) and our sample sizes were still rather small. Future work could perform a more broad and in-depth human evaluation.

Ethics Statement

Our benchmark contains no personal, sensitive, or private information; it consists solely of publicly available data.

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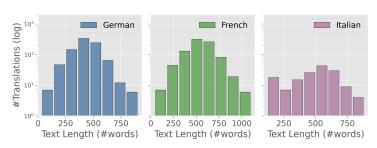
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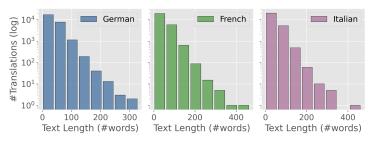
A Use of AI Assistants

We used GPT-40 and Claude Sonnet 3.5 for coding, shortening texts and editing LaTeX more efficiently.

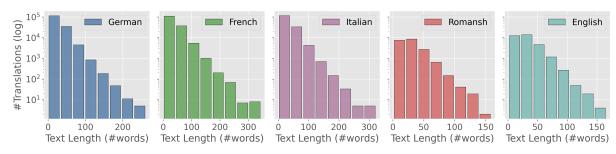
B Corpus Distribution of Text Lengths



(a) CH-Press-Trans dataset.



(b) CH-Headnote-Trans dataset (Text-Level).



(c) CH-Law-Trans dataset (Paragraph-Level).

Figure B.1: SwiLTra-Bench text length distribution (training set).

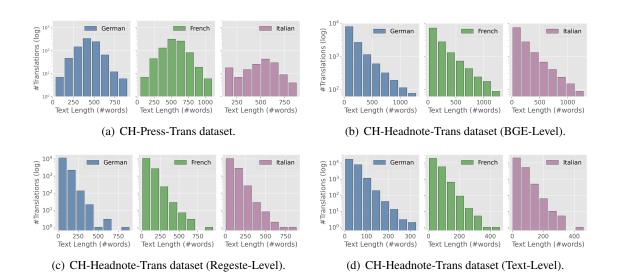
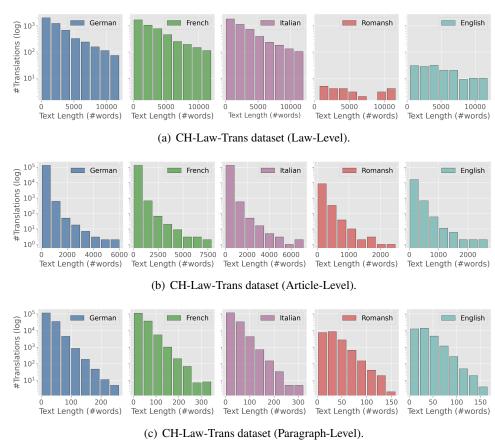


Figure B.2: Text length distribution of CH-Press-Trans and CH-Headnote-Trans dataset (training set).



 $Figure\ B.3:\ Text\ length\ distribution\ of\ CH-Law-Trans\ dataset\ (training\ set).$

C Additional Experimental Results

Model	Family	Category	Size	↑ GEMBA-MQM	↑ XCOMET	↑ BLEURT	↑ METEOR	↑ ChrF
Gemma-2-2B	Gemma	open	2B	9.90 ± 0.1	35.52 ± 0.1	-102.08 ± 0.3	6.97 ± 0.1	11.12 ± 0.1
SLT-Gemma-2-2B		finetuned	2B	72.71 ± 0.2	82.39 ± 0.1	26.72 ± 0.3	61.52 ± 0.1	79.48 ± 0.1
Gemma-2-9B	Gemma	open	9B	12.15 ± 0.1	36.54 ± 0.1	-102.19 ± 0.3	7.48 ± 0.1	0.00 ± 0.1
SLT-Gemma-2-9B	Gemma	finetuned	9B	82.54 ± 0.1	87.62 ± 0.1	32.89 ± 0.2	65.16 ± 0.1	78.95 ± 0.1
Llama-3.2-1B	Llama	open	1B	27.23 ± 0.2	48.43 ± 0.2	-15.64 ± 0.2	29.70 ± 0.1	39.87 ± 0.1
SLT-Llama-3.2-1B	Llama	finetuned	1B	64.14 ± 0.2	76.40 ± 0.1	26.35 ± 0.2	59.03 ± 0.1	79.76 ± 0.1
Llama-3.2-3B	Llama	open	3B	54.13 ± 0.2	67.43 ± 0.2	0.59 ± 0.2	38.57 ± 0.1	50.47 ± 0.1
SLT-Llama-3.2-3B	Llama	finetuned	3B	75.56 ± 0.2	83.39 ± 0.1	30.47 ± 0.2	62.54 ± 0.1	79.32 ± 0.1
Llama-3.1-8B	Llama	open	8B	67.09 ± 0.2	75.03 ± 0.2	6.25 ± 0.2	43.72 ± 0.1	50.56 ± 0.1
SLT-Llama-3.1-8B	Llama	finetuned	8B	80.23 ± 0.1	86.04 ± 0.1	31.91 ± 0.2	64.17 ± 0.1	80.89 ± 0.1
Phi-3.5-mini	Phi	open	3.8B	17.96 ± 0.2	41.93 ± 0.1	-92.40 ± 0.3	9.66 ± 0.1	11.42 ± 0.1
SLT-Phi-3.5-mini	Phi	finetuned	3.8B	73.90 ± 0.2	80.31 ± 0.1	10.33 ± 0.2	56.75 ± 0.1	76.72 ± 0.1
Phi-3-medium	Phi	open	14B	21.33 ± 0.2	38.91 ± 0.1	-81.04 ± 0.3	13.45 ± 0.1	17.74 ± 0.1
SLT-Phi-3-medium	Phi	finetuned	14B	81.56 ± 0.1	87.38 ± 0.1	32.39 ± 0.2	64.16 ± 0.1	80.40 ± 0.1
Qwen2.5-0.5B	Qwen	open	0.5B	9.82 ± 0.2	41.36 ± 0.2	-61.96 ± 0.2		28.21 ± 0.1
SLT-Qwen2.5-0.5B	_	finetuned	0.5B	52.37 ± 0.2	69.48 ± 0.2	22.67 ± 0.2		78.66 ± 0.1
Qwen2.5-1.5B	Qwen	open	1.5B	35.21 ± 0.2	58.12 ± 0.2	-46.89 ± 0.3		36.26 ± 0.1
SLT-Qwen2.5-1.5B	Qwen	finetuned	1.5B	69.58 ± 0.2	80.43 ± 0.1	26.90 ± 0.2	60.45 ± 0.1	78.13 ± 0.1
Qwen2.5-3B	Qwen	open	3B	48.85 ± 0.2	61.18 ± 0.2	-11.88 ± 0.2	34.77 ± 0.1	44.46 ± 0.1
SLT-Qwen2.5-3B	Qwen	finetuned	3B	74.33 ± 0.2	82.99 ± 0.1	27.78 ± 0.2	61.61 ± 0.1	78.03 ± 0.1
Qwen2.5-7B	Qwen	open	7B	58.79 ± 0.2	69.07 ± 0.2	0.73 ± 0.2	39.41 ± 0.1	42.67 ± 0.1
SLT-Qwen2.5-7B	Qwen	finetuned	7B	78.96 ± 0.1	86.03 ± 0.1	31.07 ± 0.2	63.40 ± 0.1	77.54 ± 0.1
Qwen2.5-14B	Qwen	open	14B	72.70 ± 0.2	79.54 ± 0.1	9.27 ± 0.2	45.06 ± 0.1	56.13 ± 0.1
SLT-Qwen2.5-14B	Qwen	finetuned	14B	82.78 ± 0.1	87.46 ± 0.1	32.37 ± 0.2	64.73 ± 0.1	78.56 ± 0.1
Qwen2.5-32B	Qwen	open	32B	70.30 ± 0.2	76.34 ± 0.1	6.91 ± 0.2	45.33 ± 0.1	57.94 ± 0.1
SLT-Qwen2.5-32B	Qwen	finetuned	32B	82.77 ± 0.1	87.90 ± 0.1	33.20 ± 0.2	65.07 ± 0.1	76.75 ± 0.1

Table C.1: Base models and their finetuned versions across different families and sizes.

D Corpus Examples

Dataset	Field	Comment
CH-Press-Trans	filename de_text fr_text it_text has_all_langs	Unique identifier of each press release Press release content in German Press release content in French Press release content in Italian Binary indicator of language availablity
CH-Law-Trans	abbreviation url rsNr artNr parNr dateApplicability {de/fr/it/rm/en}_lawTitle {de/fr/it/rm/en}_artTitle {de/fr/it/rm/en}_lawText {de/fr/it/rm/en}_artText {de/fr/it/rm/en}_parText {de/fr/it/rm/en}_lawHtml {de/fr/it/rm/en}_artHtml {de/fr/it/rm/en}_parHtml	The abbreviation of the law URL linking to the legal text on Fedlex Swiss federal register number Article number Paragraph number Date of applicability of the law Law titles in different languages Article titles in different languages Full law texts in different languages Full paragraph texts in different languages Full paragraph texts in different languages Law texts in HTML format in different languages Article texts in HTML format in different languages Paragraph texts in HTML format in different languages
CH-Headnote-Trans	<pre>bge year volume pageNumber regesteNumber textNumber {de/fr/it}_bgeText {de/fr/it}_regesteText {de/fr/it}_regesteTitle {de/fr/it}_text</pre>	Case identifier Year of the court decision Volume number of the court decision Page number of the court decision Number assigned to the regeste Number assigned to the specific text extract Full summary texts in different languages Regeste texts in different languages Regeste title in different languages Text extract in different languages

Table D.1: Structure of three datasets in the SwiLTra-Bench benchmark. Parallel translations for Romansh and English are only available in parts of the CH-Law-Trans dataset.

```
1 {
       'de abbreviation': BV,
       'de_artText': Das Schweizervolk und die Kantone Zürich, Bern, Luzern, Uri,
           Schwyz, Obwalden und Nidwalden, Glarus, Zug, Freiburg, Solothurn,
           Basel-Stadt und Basel-Landschaft, Schaffhausen, Appenzell Ausserrhoden und
           Appenzell Innerrhoden, St. Gallen, Graubünden, Aargau, Thurgau, Tessin,
           Waadt, Wallis, Neuenburg, Genf und Jura bilden die Schweizerische
           Eidgenossenschaft.,
       'de_artTitle': Art. 1 Schweizerische Eidgenossenschaft,
5
       'fr_abbreviation': Cst.,
       'fr_artText': Le peuple suisse et les cantons de Zurich, de Berne, de Lucerne,
           d'Uri, de Schwyz, d'Obwald et de Nidwald, de Glaris, de Zoug, de Fribourg,
           de Soleure, de Bâle-Ville et de Bâle-Campagne, de Schaffhouse, d'Appenzell
           Rhodes-Extérieures et d'Appenzell Rhodes-Intérieures, de Saint-Gall, des
           Grisons, d'Argovie, de Thurgovie, du Tessin, de Vaud, du Valais, de
           Neuchâtel, de Genève et du Jura forment la Confédération suisse.
       'fr_artTitle': Art. 1 Confédération suisse,
10
11
       'it_abbreviation': Cost.,
       'it_artText': Il Popolo svizzero e i Cantoni di Zurigo, Berna, Lucerna, Uri,
13
           Svitto, Obvaldo e Nidvaldo, Glarona, Zugo, Friburgo, Soletta, Basilea Città
           e Basilea Campagna, Sciaffusa, Appenzello Esterno e Appenzello Interno, San
           Gallo, Grigioni, Argovia, Turgovia, Ticino, Vaud, Vallese, Neuchâtel,
           Ginevra e Giura costituiscono la Confederazione Svizzera.
14
       'it_artTitle': Art. 1 Confederazione Svizzera,
15
16
       'rm_abbreviation': Cst.,
18
       'rm_artText': Il pievel svizzer ed ils chantuns Turitq, Berna, Lucerna, Uri,
19
           Sviz, Sursilvania e Sutsilvania, Glaruna, Zug, Friburg, Soloturn,
           Basilea-Citad e Basilea-Champagna, Schaffusa, Appenzell Dadens ed Appenzell Dador, Son Gagl, Grischun, Argovia, Turgovia, Tessin, Vad, Vallais,
           Neuchâtel, Genevra e Giura furman la Confederaziun svizra.,
20
       'rm_artTitle': Art. 1 Confederaziun svizra,
21
       'en_abbreviation': Cst.,
23
       'en_artText': The People and the Cantons of Zurich, Bern, Lucerne, Uri, Schwyz,
           Obwalden and Nidwalden, Glarus, Zug, Fribourg, Solothurn, Basel Stadt and
           Basel Landschaft, Schaffhausen, Appenzell Ausserrhoden and Appenzell
           Innerrhoden, St. Gallen, Graubünden, Aargau, Thurgau, Ticino, Vaud, Valais,
           Neuchâtel, Geneva, and Jura form the Swiss Confederation.,
26
       'en_artTitle': Art. 1 The Swiss Confederation,
27 }
```

Listing 1: An Example of CH-Law-Trans: Article Dataset

```
'bge': 100-IA-231,
       'vear': 100,
       'volume': IA,
       'pageNumber': 231,
       'de_bgeText': Art. 85 lit. a OG. Ungültigerklärung einer kommunalen
          Volksinitiative wegen materieller Unvereinbarkeit mit dem kantonalen Recht.
          1. Wieweit muss die Behörde beim Entscheid über die Gültigkeit einer
          kommunalen Initiative berücksichtigen, dass deren materielle
          Widerrechtlichkeit durch Annahme eines gleichzeitig eingereichten
          kantonalen Volksbegehrens dahinfallen könnte? (Erw. 2). 2. Die
          Verkehrsbetriebe der Stadt Zürich sind eine zur Eigenwirtschaftlichkeit
          verpflichtete ''produktive Unternehmun'' im Sinne von par. 129 des
          kantonalen Gemeindegesetzes. Die stadtzürcherische
           ''Gratistram-Initiative'', mit welcher ein grundsätzlicher Verzicht auf die
          Erhebung von Benützungsgebühren gefordert wurde, durfte daher wegen
          Unvereinbarkeit mit dem kantonalen Recht für ungültig erklärt werden (Erw.
          3).,
       'fr_bgeText': Art. 85 lit. a OJ. Décision niant la validité d'une initiative
          communale en raison de son incompatibilité matérielle avec le droit
          cantonal. 1. Dans quelle mesure l'autorité qui se prononce sur la validité
          d'une initiative communale doit-elle tenir compte du fait que le contenu de
          cette dernière, contraire au droit, pourrait ne plus l'être en raison de
          l'acceptation d'une initiative cantonale déposée simultanément? (consid.
          2). 2. Les entreprises de transport de la ville de Zurich, qui doivent être
          gérées selon les principes de l'économie industrielle, sont une
           ''entreprise à caractère productif'' au sens de l'art. 129 de la loi
          cantonale sur les communes. L'initiative communale zurichoise
          ''Gratistram'', qui exigeait en principe la suppression de toute taxe
          d'utilisation, pouvait être déclarée non valable en raison de son
          incompatibilité avec le droit cantonal (consid. 3).,
10
       'it_bgeText': Art. 85 lett. a OG. Diniego della validità di un'iniziativa
          comunale a causa della sua incompatibilità con il diritto cantonale. 1. In
          quale misura l'autorità che si pronuncia sulla validità di una iniziativa
          comunale deve tener conto del fatto che il contenuto di quest'ultima,
          contrario alla legge, cesserebbe d\'esserlo ove fosse accettata una
          iniziativa cantonale presentata nello stesso tempo? (consid. 2). 2. Le
          imprese di trasporto della città di Zurigo costituiscono una "'azienda
          produttiva'' ai sensi dell'art. 129 della legge cantonale sui comuni,
          tenuta come tale ad un esercizio secondo criteri economici. L'iniziativa
          comunale zurighese per il tram gratuito, che esigeva in linea di principio
          la soppressione d'ogni tassa d'utilizzazione, poteva quindi essere
          dichiarata invalida per la sua incompatibilità con il diritto cantonale
```

Listing 2: An Example of CH-Headnote-Trans: BGE Dataset

(consid. 3).

```
'de_text': ... Das BJ wies zuerst das Gesuch und dann die gegen diese Verfügung
          erhobene Einsprache des Betroffenen ab. Das Bundesverwaltungsgericht hiess
          die Beschwerde des Betroffenen gut, hob den Einspracheentscheid des BJ auf
          und wies die Angelegenheit dem BJ zurück, wogegen das BJ beim Bundesgericht
          eine Beschwerde eingereicht hat.
       Das Bundesgericht weist die Beschwerde ab. Gestützt auf eine vertiefte
          Auslegung des AFZFG kommt das Bundesgericht zum Schluss, dass ein Kind auch
          nach einer Adoption durch seine vormaligen Pflegeeltern als fremdplatziert
          im Sinne von Artikel 2 Buchstabe b des AFZFG gilt, womit es auch nach der
          Adoption von einer Fremdplatzierung betroffen ist und die Opfereigenschaft
          nach Artikel 2 Buchstabe d AFZFG erfüllen kann.
       'fr_text': ... L'OFJ a rejeté tant la demande que l'opposition formées par
          l'intéressé. Le Tribunal administratif fédéral a admis le recours de
          l'intéressé, annulé la décision sur opposition de l'OFJ et renvoyé
          l'affaire à l'OFJ, lequel a déposé un recours auprès du Tribunal fédéral.
       Le Tribunal fédéral rejette le recours. Sur la base d'une interprétation
          approfondie de la LMCFA, il parvient à la conclusion qu'un enfant doit être
          considéré comme ayant fait l'objet d'un placement extrafamilial au sens de
          l'article 2 lettre b LMCFA même après avoir été adopté par ses parents
          nourriciers, si bien que la qualité de personne concernée et le statut de
          victime aux termes de l'article 2 lettre d LMCFA doivent lui être reconnus
          même après l'adoption.
       'it_text': ... L'UFG ha respinto prima la domanda e poi l'opposizione
10
          interposta dall'interessato contro questa decisione. Il Tribunale
          amministrativo federale ha accolto il ricorso dell'interessato, ha
          annullato la decisione su opposizione resa dall'UFG e ha rinviato la
          questione all'UFG, che ha presentato ricorso al Tribunale federale.
11
       Il Tribunale federale respinge il ricorso. Sulla base di un'interpretazione
12
          approfondita della LMCCE, il Tribunale federale giunge alla conclusione che
          si deve ritenere che un bambino ha subito un collocamento extrafamiliare ai
          sensi dell'articolo 2 lettera b LMCCE anche dopo essere stato adottato dai
          genitori affilianti ed è pertanto riconosciuto come persona oggetto di
          misure nonché vittima secondo l'articolo 2 lettera d LMCCE anche dopo
          l'adozione.
```

Listing 3: An Example of CH-Press-Trans Dataset

13 }

E Judge Correlations

Metric	Spearman (Bootstrap)	Spearman (CV)	RMSE (CV)	MAE (CV)
gemini-1-5-flash-codebook-diverse-deduction	0.504 [0.419, 0.587]	0.504 ± 0.074	15.215 ± 2.216	11.100 ± 0.670
XCOMET-XXL	0.486 [0.403, 0.560]	0.477 ± 0.093	14.877 ± 1.372	10.204 ± 0.748
gpt-4o-mini-codebook-single-deduction	0.470 [0.382, 0.549]	0.477 ± 0.095	22.168 ± 3.064	16.944 ± 1.691
gpt-4o-mini-codebook-diverse-deduction	0.461 [0.374, 0.539]	0.459 ± 0.094	22.527 ± 2.678	17.138 ± 1.113
gemini-1-5-flash-codebook-single-deduction	0.459 [0.373, 0.547]	0.466 ± 0.069	16.049 ± 2.212	10.990 ± 0.720
gpt-4o-codebook-single-deduction	0.443 [0.357, 0.534]	0.447 ± 0.070	29.020 ± 3.982	19.606 ± 1.951
gpt-4o-codebook-diverse-deduction	0.424 [0.335, 0.513]	0.412 ± 0.044	30.902 ± 1.843	21.537 ± 0.555
gpt-4o-detailed-single-absolute	0.422 [0.337, 0.510]	0.427 ± 0.052	35.940 ± 4.207	24.286 ± 3.382
gpt-4o-mini-basic-single-absolute	0.415 [0.333, 0.499]	0.422 ± 0.067	26.736 ± 1.817	21.370 ± 2.036
gpt-4o-basic-single-absolute	0.411 [0.315, 0.499]	0.411 ± 0.131	20.655 ± 2.947	14.596 ± 1.976
gpt-4o-mini-detailed-single-absolute	0.379 [0.287, 0.466]	0.384 ± 0.069	35.437 ± 1.866	30.302 ± 1.718
gpt-4o-basic-diverse-absolute	0.379 [0.282, 0.468]	0.383 ± 0.087	21.780 ± 2.249	13.550 ± 1.382
gpt-4o-detailed-diverse-absolute	0.377 [0.285, 0.466]	0.380 ± 0.090	34.786 ± 3.711	22.995 ± 3.173
bleurt_large	0.356 [0.259, 0.446]	0.364 ± 0.147	63.110 ± 5.225	58.102 ± 5.064
gpt-4o-mini-detailed-diverse-absolute	0.356 [0.259, 0.445]	0.364 ± 0.097	36.480 ± 2.365	30.828 ± 2.387
gpt-4o-mini-basic-diverse-absolute	0.352 [0.262, 0.439]	0.361 ± 0.048	28.363 ± 1.315	22.393 ± 1.347
gemini-1-5-pro-basic-single-absolute	0.305 [0.204, 0.400]	0.295 ± 0.083	36.203 ± 3.618	22.993 ± 3.010
gemini-1-5-pro-codebook-diverse-deduction	0.302 [0.211, 0.404]	0.298 ± 0.095	34.528 ± 3.882	20.580 ± 2.477
gemini-1-5-pro-codebook-single-deduction	0.293 [0.181, 0.391]	0.292 ± 0.074	36.718 ± 2.663	21.816 ± 2.158
GEMBA-MQM_gpt-4o	0.290 [0.187, 0.383]	0.289 ± 0.093	18.331 ± 1.743	12.698 ± 0.787
gemini-1-5-flash-detailed-single-absolute	0.279 [0.178, 0.365]	0.275 ± 0.049	29.067 ± 3.070	18.709 ± 1.651
gemini-1-5-flash-basic-single-absolute	0.271 [0.171, 0.365]	0.279 ± 0.110	33.283 ± 5.239	20.412 ± 3.287
gemini-1-5-flash-basic-diverse-absolute	0.258 [0.156, 0.351]	0.249 ± 0.069	27.649 ± 5.852	16.756 ± 3.233
gemini-1-5-pro-basic-diverse-absolute	0.252 [0.154, 0.347]	0.250 ± 0.082	36.544 ± 3.470	22.990 ± 2.684
gemini-1-5-pro-detailed-diverse-absolute	0.246 [0.142, 0.344]	0.250 ± 0.097	38.316 ± 2.063	26.098 ± 1.148
gemini-1-5-pro-detailed-single-absolute	0.237 [0.135, 0.333]	0.244 ± 0.079	38.618 ± 2.362	27.798 ± 1.977
gemini-1-5-flash-detailed-diverse-absolute	0.233 [0.131, 0.326]	0.225 ± 0.055		19.671 ± 3.346
BERTScore-F	0.164 [0.068, 0.260]	0.170 ± 0.053	36.723 ± 1.340	31.523 ± 1.772
meteor	0.161 [0.063, 0.257]	0.164 ± 0.125	34.170 ± 3.444	29.270 ± 3.191

Table E.1: Correlation metrics with human scores (with 95% CIs and Cross-Validation)

F Judge Prompts

System Prompt

Act as a Judge specializing in the evaluation of translations of Swiss legal documents. Your task is to assess the accuracy, clarity, and fidelity of the model's translation to the golden translation, while considering the nuances of legal language.

User Prompt

You will be provided with a source text, its golden translation, and the model's translation. Your task is to judge how correct the model's translation is based on the golden translation, and then give a correctness score. The correctness score should be one of the below numbers: 0.0 (totally wrong), 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, or 1.0 (totally right). You should first briefly give your reasoning process regarding how the model's translation conforms to or contradicts the golden translation, and then give the correctness score. The correctness score must strictly follow this format: \"[[score]]\", e.g., \"The correctness score: [[0.5]]\". Below are some examples.

Listing 4: The system and user prompt of the basic judge setup.

G Annotation Guidelines

System Prompt

You are a senior legal translator and quality assurance specialist with over 20 years of experience in Swiss law, certified by the Swiss Sworn Translators Association (Association suisse des traducteurs-jurés, ASTJ). You possess native-level proficiency in all Swiss national languages (German, French, Italian, and Romansh) as well as English, enabling precise evaluation of legal nuances across all linguistic combinations. Your task is to evaluate machine-translated legal texts for accuracy, clarity and fidelity to Swiss legal standards analyzing the subtle complexities of legal language. You excel at identifying even minor discrepancies and calibrating evaluation scores appropriately to reflect the severity of each error.

User Prompt

```
1 INPUT FORMAT:
2 Source Text: [Original text in source language]
  Golden Translation: [Reference professional translation]
  Model Translation: [Machine-generated translation to be evaluated]
6 EVALUATION DIMENSIONS:
  Accuracy: Semantic equivalence, correct legal terminology, and preservation of
       legal meaning.
  Clarity: Logical flow, appropriate legal register, and unambiguous expression.
  Fidelity: Adherence to Swiss legal conventions, jurisdiction-specific terminology,
      and formal register.
10
  SCORING RUBRIC:
11
12 1.0: Perfect translation
0.7-0.9: Minor issues only
  0.4-0.6: Significant but non-critical errors
  0.1-0.3: Major errors affecting legal meaning
  0.0: Completely incorrect
16
  EVALUATION GUIDELINES:
18
  Stylistic differences should not impact accuracy significantly unless they alter
19
      the legal meaning.
  Untranslated Latin terms (e.g., prima facie) are not considered errors, but they
       should still be assessed for appropriate use within the context of the answer.
  Terminology should be used consistently throughout the text.
21
   Consider both explicit and implicit legal meanings.
  Consider jurisdiction-specific legal terminology.
  Flag any ambiguities, omissions or additions that affect legal meaning.
  REQUIRED OUTPUT FORMAT:
26
27
  Your response should be in plain text with the following sections:
  Reasoning: Analyze how the model's translation aligns with or differs from the
28
      golden translation, focusing on significant legal and linguistic aspects.
  Examples: Identify specific terms, phrases, or sections in the model's answer that
29
       were correct or incorrect, with explanations.
  Score: End with exactly this format: \"The correctness score: [[score]]\"
  The correctness score must strictly follow this format: \"[[score]]\", e.g., \"The
      correctness score: [[0.5]]\". Below are some examples.
```

Listing 5: The system and user prompt of the *detailed* judge setup.

System Prompt

You are a senior legal translator and quality assurance specialist with over 20 years of experience in Swiss law, certified by the Swiss Sworn Translators Association (Association suisse des traducteurs-jurés, ASTJ). You possess native-level proficiency in all Swiss national languages (German, French, Italian, and Romansh) as well as English, enabling precise evaluation of legal nuances across all linguistic combinations. Your task is to evaluate machine-translated legal texts for accuracy, clarity and fidelity to Swiss legal standards analyzing the subtle complexities of legal language. You excel at identifying even minor discrepancies and calibrating evaluation scores appropriately to reflect the severity of each error.

User Prompt

- GENERAL INSTRUCTIONS:
- You must give each translation a score between 0 and 1 that must be divisible by 0.1 (e.g., 0.6 or 0.9). To this end, you are given a source text, its ''gold translation'' (official translation of the Swiss authorities) and the predicted translation, to which you must assign the score. You can also write down notes if deemed necessary.
- 4 SCORE

6

- 5 The scores shall reflect the completeness and accuracy of the predicted translation. In other words, you should not give a score based on readability or stylistic attributes.
- 7 POINT DEDUCTION SYSTEM:
- 8 A perfect, i.e., a perfectly complete and accurate translation receives a score of
- 0.1 points deduction for a relevant legal term in an unusual but still correct manner. 0.1 points shall also be deducted if the law has not been translated (e.g., BV to BV). Finally, 0.1 points shall be deducted if a non-relevant term is missing.
- 0.2 points deduction if a legally relevant legal term is translated erroneously.
 0.2 points shall also be deducted if a relevant term is missing.
- $\scriptstyle\rm II$ 0.4 points deduction for critical errors, such as when a law is translated with reference to the wrong law.
- Do not deduct points for discrepancies between the predicted translation and the gold translation if the predicted translation matches the source text better. The gold translation should primarily serve as a reference to help you assess cases where it is also a correct translation of the source. In some cases, the source text may differ slightly from the gold translation. This can happen if the source text itself was previously translated. Repeated errors for the same term should not lead to multiple point deductions.
- 15 REQUIRED OUTPUT FORMAT:
- 16 Your response should be in plain text with the following sections:
- 17 Deductions: Focusing on significant legal and linguistic aspects, analyze and present concretely all points to be deducted together with brief explanations.
- Score: End with exactly this format: \"The correctness score: [[score]]\"
- The correctness score must strictly follow this format: \"[[score]]\", e.g., \"The correctness score: [[0.5]]\". Below are some examples.

Listing 6: The system and user prompt of the *codebook* judge setup.

```
General Instructions: Annotators must give each translation a score between 0 and
       10 that must be divisible by 1 (e.g., 6 or 9). To this end, annotators are
       given a source text, its ''gold translation'' (official translation of the
       Swiss authorities) and the predicted translation, to which they must assign the
      score. Annotators can also write down notes if deemed necessary.
  Score: The scores shall reflect the completeness and accuracy of the predicted
       translation. In other words, annotators should not give a score based on
      readability or stylistic attributes.
  Point Deduction System: The scoring should be conducted using a points deduction
  A perfect, i.e., a perfectly complete and accurate translation receives a score of
  1 points deduction for a relevant legal term in an unusual but still correct
      manner. 1 point shall also be deduced if the law has not been translated (e.g.,
      BV to BV). Finally, 1 point shall be deduced if a non-relevant term is missing.
   2 points deduction if a legally relevant legal term is translated erroneously. 2
      points shall also be deduced if a relevant term is missing.
   4 points deduction for critical errors, such as when a law is translated with
       reference to the wrong law. If a new category of critical error is introduced
       under this deduction, the annotator must inform the other annotators through
      their communication channel.
11
  Do not deduct points for discrepancies between the predicted translation and the
      gold translation if the predicted translation matches the source text better.
      The gold translation should primarily serve as a reference to help you assess
       cases where it is also a correct translation of the source. In some cases, the
       source text may differ slightly from the gold translation. This can happen if
      the source text itself was previously translated.
  Notes for Multiple Deductions: If two or more deductions are applied, annotators
      must briefly document the individual deductions in the comments field, e.g.,
       ''-1, -1, -2''. This allows for potential adjustments to weighting later to
       account for text length if necessary. Repeated errors for the same term should
      not lead to multiple point deductions.
15
  Subjectivity: We are aware that the scoring system is subject to a certain degree
      of subjectivity. However, assessing the quality of a translation cannot be
       fully objectified. To demonstrate how the scoring system works in practice, we
      provide annotators with 3 examples including a suggested score.
17
18
  Examples:
19
20 1) Source: ''Bewilligungen nach diesem Artikel dürfen nur erteilt werden, wenn:''
  Gold: ''Permits under this Article may be issued only if:''
21
  Prediction: Permits under this Article may only be granted if:
  Score: 10
23
25
  2) Source: Bank client confidentiality and other client and professional
       confidentiality protected by law shall be maintained.
  Gold: Das Bankgeheimnis und andere gesetzlich geschützte Kunden- und
      Berufsgeheimnisse sind zu wahren.
  Prediction: Die gesetzlich geschützte Vertraulichkeit von Bankkundeninformationen
      sowie andere gesetzlich geschützte Kunden- und Berufsgeheimnisse sind zu wahren.
  Score: 9 (-1 for unusual translation of ''Bankgeheimnis'')
  3) Source: 1. La constitution de sûretés par la partie adverse (art. 79 al. 2 LBI)
      ne dispense pas le juge d'examiner s'il y a lieu d'ordonner des mesures
      provisionnelles aux conditions prévues à l'art. 77 al. 2 LBI.
  Gold: 1. Eine Sicherheitsleistung gemäss Art. 79 Abs. 2 PatG enthebt den Richter
      nicht von der Prüfung der Frage, ob die Voraussetzungen für vorsorgliche
      Massnahmen nach Art. 77 Abs. 2 PatG gegeben seien.
  Prediction: Die Stellung von Sicherheiten durch die Gegenpartei (Art. 79 Abs. 2
      BEHG) entbindet den Richter nicht von der Prüfung, ob vorsorgliche Massnahmen
```

unter den in Art. 77 Abs. 2 BEHG vorgesehenen Bedingungen anzuordnen sind. Score: 6 ($^{-4}$ for highly relevant erroneous translation of ''LBI'' to ''BEHG''

instead of ''PatG'')