Relation-Rich Visual Document Generator for Visual Information Extraction

Supplementary Material

A. Content Generation Prompts

For content generation in Sec. 3.1, we use the prompt shown in Fig. 6 to guide GPT-4o-mini [38] in generating HST-format content for a given document title. Additionally, we use GPT-4o-mini to generate numerous document titles covering themes such as business, government, education, and medical. The prompt is demonstrated in Fig. 7.

For domain-specific document generation in Sec. 4.4, we use GPT-40 to generate document content for the domains of SROIE [17] (receipts) and EPHOIE [43] (exam cover pages). Key-value annotations are also provided by GPT-40 using properly designed prompts. The prompt for SROIE is shown in Fig. 8. The prompt for EPHOIE is originally designed in Chinese; its English translation is presented in Fig. 9. Both prompts first describe the task and the definitions of pre-defined keys, then describe the output for GPT to reference. After obtaining the text content and annotations from GPT-40, the text content is transformed into the CLGM input format, which then handles the layout design for these documents.

B. Training Setup

CLGM is initialized from LLaMA-3.1-8B [8] and is finetuned using LoRA [15] adapter. The LoRA configuration is set as follows: LoRA rank and LoRA alpha are 64, LoRA dropout is 0.1. LoRA is applied to all the linear layers. The model is trained on 4 NVIDIA V100 GPUs (32GB) with float16 precision. We use paged AdamW 32-bit with weight decay of 0.001 as the optimizer. The total batch size is set to 128. We adopt a cosine annealing learning rate scheduler with a learning rate of 3e-4 and 3% warmup ratio over 4,800 iterations. The total training takes about 13 days.

C. Evaluation Setup

This section elaborates on (1) how VIE benchmarks are transformed into QA formats to evaluate the performance of MLLMs, (2) the ground truth correction for SROIE⁻, and (3) the implementation details for all the document understanding models used in experiments in Sec. 4.

C.1. QA for VIE benchmarks

When leveraging LLMs/MLLMs for VIE tasks, annotations are transformed into a question-answering format, such as {Q: What is the "key" in the given document? A: "value"}. We provide the question prompts used for querying each benchmark in Tab. 7. All experiments with MLLMs fol-

low this setup, and their performance is reported accordingly. However, the performance of LayoutLLM [33] is taken from its original paper, as the model checkpoint is not publicly available for testing.

C.2. Ground Truth Correction for SROIE-

We identified one annotation error in SROIE[–] and corrected it for performance evaluation. The image is named X51005806696.jpg in the dataset. The image with incorrect and corrected annotation is shown in Fig. 10.

C.3. Implementation Details in Experiments

This subsection elaborates on the training details of document understanding models we utilize in experiments, including MLLMs and LayoutLMv3 [16].

MLLMs. We leverage LoRA to fine-tune Qwen2-VL-7B [44] and LLaVA-NeXT-Mistral-7B [32]. The settings for experiments in Sec. 4.3 are described as follows. For LoRA configuration, we set rank to 8, alpha to 16, and dropout to 0.01, applying it to all linear layers. We use AdamW with weight decay of 0.1 as the optimizer. The total batch size is set to 128. We adopt a cosine annealing learning rate scheduler with a learning rate of 5e-6 and 10% warmup ratio over 2 epochs.

The settings for experiments in Sec. 4.4 are described as follows. For LoRA configuration, we set rank to 4, alpha to 8, and dropout to 0.1, applying it to all linear layers. We use AdamW with weight decay of 0.1 as the optimizer. The total batch size is set to 16. We adopt a cosine annealing learning rate scheduler with a learning rate of 1e-5 and 10% warmup ratio over 10 epochs.

LayoutLMv3. The SER model used in Sec. 4.5 is initialized from LayoutLMv3_{*BASE*}, with only the additional linear classifier fine-tuned. Following previous works [16, 46, 47], the classifier consists of a single linear layer that maps LayoutLMv3's encoded tokens, represented by 768dimension, to seven possible classes. Following standard sequence labeling conventions, these classes are: *beginof-header*, *begin-of-question*, *begin-of-answer*, *inside-ofheader*, *inside-of-question*, *inside-of-answer*, and *other*. The dropout rate of the linear classifier is set to 0.1. The optimization process utilizes the AdamW optimizer with a learning rate of 1e-5.

D. More Examples of Generated Images

We demonstrate more examples of document images generated by RIDGE in Fig. 11.

Benchmark	Question
FUNSD	What is the content in the "key" field? Directly output the answer.
VELIND 71	"key"的内容是什么?请直接回答答案。
AFUND-ZH	(Translation: What is the content in the "key" field? Directly output the answer.)
CORD	What is the "key"? Directly output the answer.
EDUQIE	这张考卷的"key"是什么?请直接回答答案。
EPHOIE	(Translation: What is the "key" in the given test paper? Directly output the answer.)
POIE	What is the "key"? Directly output the answer.
CORD-	What is the "key" in the given document? Directly output the answer.
SROIE ⁻	What is the "key" in the given document? Directly output the answer.

Table 7. Question prompts used for each benchmark.

	FUNSD					XI	FUND-Z	И
	FID	Over	Alian	LayoutLMv3	FID	Over	Alian	LayoutLMv3
	$1 ID_{\psi}$	0101.4	mgn.↓	$FID\downarrow$		0101.4	1111511.4	$FID\downarrow$
Ours	9.59	4.75	0.07	7.66	14.76	3.00	0.01	7.45
Real data	9.19	2.31	0.09	5.83	12.81	0.92	0.04	1.04

Table 8. Layout and content evaluation on FUNSD and XFUND-ZH. *Align.* represents Alignment. *Over.* represents Overlap.

E. Layout & Content Evaluation.

In Tab. 8, we follow previous works [19, 23, 31] using FID, Alignment, and Overlap metrics to evaluate our layout generation quality on FUNSD and XFUND-ZH datasets. The FID between train and test sets serves as *Real data*. Comparing it to the FID between test set and synthetic layouts, the small differences show that CLGM can produce realistic layouts. To evaluate both *content & layout* concurrently, we use LayoutLMv3 as a feature extractor due to its joint understanding of textual and spatial information. We synthesize document images based on texts from each dataset's test set. LayoutLMv3 FID is computed using CLS token embeddings. With no studies for joint evaluation of content and layout, our results serve as a baseline for future studies.

F. One-Stage & Two-Stage Generation.

In this section, we discuss the possibility of one-stage generation and provide comparisons between one-stage and two-stage generation. When approaching one-stage generation of relation-rich visual documents, which means simultaneously generating textual content, annotations (entity category and linking), and layouts, we leverage in-context learning with LLMs, rather than applying supervised finetuning, since existing open-set VIE datasets are scarce. We randomly choose 10 documents each from FUNSD and XFUND-ZH and use their full annotations as in-context learning exemplars. The input entity order in each exemplar is sorted by bounding box coordinates from left-top to right-bottom to mimic the natural reading order and improve LLMs' understanding. The prompt is provided in Fig. 12. We conduct the one-stage generation experiment using GPT-40, with qualitative results shown in Fig. 13(a) for English documents and Fig. 14(a) for Chinese documents. For comparison, the two-stage results from RIDGE are presented in Fig. 13(b) and Fig. 14(b), respectively. Each example image pair presents the raw generated document on the left and its corresponding visualized annotation on the right. All results are displayed without styling operations and use the same font for fair comparison.

In our observations, these two approaches exhibit several significant differences. From a layout perspective, the onestage method produces layouts that are more monotonous and lack proper alignment, thereby reducing readability. In contrast, the two-stage method generates diverse and complex hierarchical structures with high alignment, resulting in a clear visual hierarchy and scannable structure. Regarding relation annotations, the one-stage approach predominantly generates simple one-to-one relationships, omitting necessary hierarchical relations. Nevertheless, in several examples, we observe its attempts to produce more complex relationships (e.g., one-to-many with multiple hierarchical levels), though these attempts often result in notable entity linking errors. We hypothesize that this may be attributed to the simultaneous processing of numerous entities containing substantial numerical content (including bounding box coordinates and entity id references within linking), which constitutes an excessively complex task with long sequences, hindering the model's ability to leverage its inherent knowledge. By contrast, the two-stage method generates complex linking with highly hierarchical structure.

Furthermore, we provide a quantitative analysis of relation complexity and failure rates for document generation in Tab. 9. For a fair comparison, we conduct 50 generation attempts across both one-stage and two-stage methods, each applied to English and Chinese documents separately. In terms of relation complexity, entities generated by the onestage method mainly fall within levels 0 and 1 with a nearly 1:1 distribution, indicating almost exclusively one-to-one relationships that lack complexity. In contrast, the two-

		hierarchical level				avg #entities	failure		
		0	1	2	3	4	5	per doc	rate
EN	1-stage (GPT-40)	18.1	15.1	0.5	0.0	0.0	0.0	34.0	48%
EN	2-stage (RIDGE)	9.1	15.2	22.1	9.1	1.3	0.0	56.8	6%
71	1-stage (GPT-40)	25.9	26.3	0.7	0.0	0.0	0.0	52.9	20%
ΖП	2-stage (RIDGE)	9.4	23.0	38.3	9.4	2.3	0.1	82.5	10%

Table 9. Analysis of relation complexity and failure rates for document generation. The values in the *hierarchical level* columns indicate the average number of entities at each hierarchical level per document.

stage method shows a more diverse hierarchical distribution with substantial presence across levels 0-3 and some in deeper levels, demonstrating richer relationship structures. Additionally, the failure rate represents the percentage of samples that could not be successfully processed (e.g., incorrect JSON format) or contained notable linking errors. The one-stage method exhibits significantly higher failure rates than the two-stage approach. Moreover, such a high failure rate (48% in English one-stage generation) would likely impede effective deployment in practical scenarios.

In conclusion, two-stage generation effectively decomposes the generation of textual content with annotations and layout into separate subtasks, reducing the complexity of each task and maximizing the potential of LLMs.

G. Visual Information Extraction Methods.

Visual Information Extraction (VIE) is a crucial task within Visual Document Understanding (VDU), encompassing entity labeling and extracting relations between entities in visually-rich documents. The methodologies can be categorized into two main approaches: OCR-based and OCRfree. In OCR-based methods, early studies [3, 10] employ Graph Neural Networks (GNNs) to model entity information and relationships. Several pre-trained language models [13, 41, 46] emerge utilizing transformers to model text and layout interactions, with some additionally incorporating image modality [16, 37, 47]. These models leverage self-supervised learning with large volumes of document data, enabling application to general documents. LayoutLMv3 [16] is one of these models that is widely used and can incorporate different downstream modules for finetuning on various datasets or tasks. However, this approach is limited by the requirement for specific fine-tuning on each distinct dataset or task. With the emergence of LLMs and their superior generalization capabilities, DocLLM [42] integrates layout information with LLMs, while Layout-LLM [33] incorporates both layout and image modalities into LLMs. In OCR-free approaches, early studies [7, 25] utilize end-to-end fashion with transformers to address document understanding challenges. Recently, MLLMs have been leveraged to solve document-oriented problems. Although document-centric models [14, 49] are initially more prevalent, with advancements in MLLMs, general-purpose MLLMs [5, 32, 44] achieve promising performance in document-oriented tasks. For instance, Qwen2-VL [44] approaches human-level performance on DocVQA, suggesting a trend toward utilizing general-purpose MLLMs in the VDU field. Based on the provided form title, create realistic and diverse content for the paper form, including multiple key-value pairs. These pairs can be one-to-one, one-to-many, or multiple-choice questions. The more diversity, the better. Avoid using overly common names like "John Doe." Use <h{num}></h{num}> to enclose each paragraph. Each item should start with the "-" symbol, and the number of "-" symbols should indicate the hierarchy level (e.g. "--" is related to the last "-" before it, "---" is related to the last "-" before it). Make sure the hierarchy level is correct. Generate content of approximately 200-300 words, placing it within <content></content>. The output should be in plain text. DO NOT USE MARKDOWN, TAB, and ICON! Pretend you are filling out this paper form, so include answers that appear realistic, diverse, and

G

ΠМ

8

user

Task

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Figure 6. The prompt for guiding GPT-4o-mini in generating HST-format content for a given document title.



Figure 7. Prompts for generating form titles across various themes, including business, government, education, and medical.



Figure 8. The prompt for generating SROIE-styled content. (a) Prompt for GPT-40. (b) Example response from GPT-40.



Figure 9. The prompt for generating EPHOIE-styled content. (a) Prompt for GPT-40. (b) Example response from GPT-40.



Figure 10. Wrong annotation in SROIE⁻. The *total* is annotated as "7.20", however, "7.65" is the correct answer.

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Figure 11. Examples of document images generated by RIDGE.

Create a paper form content that might conta	in multiple key-value pairs, ensuring authenticity and diversity. Ke	y-value pairs
are not limited to one-to-one relationships; the	ley can also use one-to-many checkbox guestions. The more diver	sity, the
better. Please don't use overly common name	es like "John Doe."	
Please output the form content and annotation	ons using the following JSON format, ensuring the accuracy of the a	annotations:
{"width": img_width, "height": img_height, "f	orm": [{"id": 0, "text": "entity0's text", "box": [entity0's box], "labe	l": "entity0's
label", "linking": [entity0's linking]},]}		
I The box should be the coordinates of the top-	left and bottom-right corners, label should be one of "header", "q	uestion",
"answer", or "other". If the label is "other", th	ere won't be any linking. The linking is a list of key-value pairs of a	Il entities
that have key-value relationships with this en	tity, with each key-value pair represented as [id_key, id_value]. If t	there are no !
I key-value connections, it should be an empty	list. Annotation format	explanation ;
Please generate a form with approximately 80) entities, with high diversity in content and complex key-value rel	ationships.
Example 1:		1
{"width": 771, "height": 1000, "form": [{"id": (), "text": "Date:", "box": [476, 32, 513, 46], "label": "question",	
"linking": [[0, 1]]}, {"id": 1, "text": "3/14/90",	'box": [520, 30, 570, 49], "label": "answer", "linking": [[0, 1]]}, }	i i
I	:	
Example 10:	In-context 10-sho	t exemplar I
' ''width": 754, "height": 1000, "form": [{"id": (), "text": "001/004", "box": [595, 58, 661, 76], "label": "other", "lir	nking": []},
¹ {"id": 1. "text": "05/01/00 10:21". "box": [56.	73. 162. 87]. "label": "other". "linking": []} }	I
		/
Now start creating a new form with approxim	ately 80 entities, using the same format as the example, without a	adding any
other unnecessary phrases.		

Figure 12. The prompt for one-stage generation of relation-rich visual document.

(a) 1-stage (GPT-4o)

(1	
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Name: Lyle Renner	Technical Skills Fythen, 501, Excel	Name: Lyle Renner	Technical-MITTE Fythen, 521, Excel	Date of Birth: 02/07/1905	Date of Dirit 02/07/1905
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Thome: (555) 019-1204	Current Project: AI Implementation	Thomas (555) 019-1204	Current Perfect: AI Implementation	Phone: (555) 113-4567	PhoneT (555) 123-4567
Department Details	Project Manager: Serek Na	Department Details	Freject BernyBTI Levek Ma	Address: 123 Elm Street, Springfield, 25 62704	Addrews 123 Elm Street, Springfield, 25 62704
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Figure 13. Qualitative comparison of generated English documents between (a) one-stage generation using GPT-40 and (b) two-stage generation using RIDGE.

(a) 1-stage (GPT-4o)

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Figure 14. Qualitative comparison of generated Chinese documents between (a) one-stage generation using GPT-40 and (b) two-stage generation using RIDGE.

客户茶名: 乐玉绅 皇明:

填表日期

著名及聲明

②本人已詳閱並同意中華聲音 以本人確認的課題的實驗書寫錄