A HUMAN CURATION INTERFACE



Figure 5: The LabelBox annotating interface when curating GPT-40 generated instructions.

B FINETUNED INTERNVL-8B EVALUATION RESULTS

Table 6 shows the evaluation scores of the InternVL-8B models finetuned with various dataset mixture ratios as discuss in Section 4.1

Table 6: We ask the finetuned InternVL-8B models to generate instructions describing the editing process dealing with a single text or non-text elements, and evaluate the quality of the generated instructions with the following automatic metrics: BLEU-4 (B-4), ROUGE (R.), METEOR (M.), CIDEr (C.), BERTScore (BERTS.), and CLIPScore (CLIPS.). Values in **bold** are the top-performer while values with <u>underline</u> rank the second. "All": documents that requires editing all text elements. "Single": documents that only needs editing single text or non-text elements.

Task	Model	Text Elements						Non-Text Elements					
		B-4	R.	М.	C.	BERTS.	CLIPS.	B-4	R.	М.	C.	BERTS.	CLIPS.
	All0%-Single100%	31.37	52.56	30.59	45.74	90.48	63.38	27.47	48.83	28.38	22.20	89.23	64.50
	All20%-Single80%	<u>31.33</u>	<u>52.30</u>	30.45	<u>45.01</u>	90.39	63.61	27.25	<u>48.44</u>	28.10	25.30	89.01	64.34
Mosking	All40%-Single60%	30.44	51.62	30.41	44.26	90.25	63.87	26.71	48.24	28.32	19.45	89.13	64.23
wasking	All60%-Single40%	30.93	52.07	30.58	43.05	90.48	63.43	26.27	47.46	27.80	20.85	88.90	64.82
	All80%-Single20%	29.25	50.43	29.96	36.66	90.01	63.97	24.90	45.89	27.25	14.96	88.47	64.99
	All100%-Single0%	27.15	48.60	29.20	29.03	89.47	64.48	23.63	44.55	26.47	10.15	88.01	65.83
	All0%-Single100%	19.10	39.58	25.15	38.08	90.03	66.51	11.69	33.11	20.35	18.51	87.94	67.57
	All20%-Single80%	19.28	39.85	25.28	35.96	90.18	67.03	<u>11.43</u>	32.71	20.02	18.07	87.81	67.20
Innointing	All40%-Single60%	18.92	39.56	25.04	40.26	90.02	67.20	11.27	32.57	20.11	19.18	87.84	67.51
mpanning	All60%-Single40%	18.77	<u>39.65</u>	<u>25.24</u>	<u>38.70</u>	<u>90.16</u>	66.74	11.09	32.63	20.17	17.11	87.92	67.72
	All80%-Single20%	18.27	39.04	25.11	35.93	90.06	66.11	10.56	31.96	20.00	15.51	87.63	66.91
	All100%-Single0%	17.88	38.93	25.02	37.15	89.97	65.84	10.44	31.65	19.58	13.88	87.43	66.95

C INSTRUCTIONS GENERATED BY MLLMS

Table 7: Instructions generated by the eight tested MLLMs on the *Masking* task for editing single text element.

816		Advent of
817		technology , losing 🛄 🖲 🝙
818		sense of human 🕺 😜
819		relationship. 🖉 🖓 👌
820		Save it 🕤 😌 🔍
821		
822		
823		morelifechanger.in
824	Model	Generated Instruction
825	Ground Truth	1. Remove Text: - Remove the text "morelifechanger.in" from the lower-left
826		corner of the first design document.
827		2. Save and Review: - Save the changes and review the design to ensure it
828		matches the second design document.
829	Otter-7B	Given the insight 'There is a small change in the second document, it is a different
830		color.', the suitable answer should be: change color.
831	IDEFICS-9B	The first two images are two design documents that are almost the same, the
832		differences are indicated in the third mask image
833		. Please write the specific instructions to modify the first design document to
834		match the second design document.
835		differences are indicated in the third mask image
836		Please write the specific instructions to modify the first design document to
837		match the second design document
838		The first two images are two design documents that are almost the same the
839		differences are indicated in the third mask image
840		. Please write the specific instructions to modify the first design document to
841		match the second design document.
842		The first two images are two design documents that are almost the same, the
843		differences are indicated in the third mask image
844		. Please write the specific instructions to modify the first design document to
845		match the second design document.
846		The first two images are two design documents that are almost the same, the
847		differences are indicated in the third mask image
848		. Please write the specific instructions to modify the first design document to match the second design document
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865	FUYU-8B	1. Name the icons: The icons "Phone," "Mail," "FaceTime," and "Messenger"
866		are icons that depict various communication tools.
867		2. Description: The first design document lists the icons, their functions, and
868		their names.
869		3. Location: The first design document lists the location "Smartphone," "Mobile
870		Phone," "Cell Phone," "Tablet," "Tablet PC," "Cell Phone PC," "Tablet PC PC,"
871		"Tablet PC PC PC," and "Tablet PC
872		PC P
873		PC P
073		PC P
074		PC P
675		PC P
876		PC P
877		PC P
878		PC P
879		
880		PC P
881		PC P
882		PC P
883		PC P
884		PC P
885		PC P
886		PC PC PC PC PC PC PC PC PC
887		
888	mPLUG-Owl-7B	The first two design documents are nearly the same, but there are some differ-
889		ences in the third mask image. To modify the first design document to match the
890		second design document, follow these instructions:
891		1. Include a black background in the background layer of the first design docu-
892		ment to match the background of the second design document.
803		2. Add a white border around the design to make it consistent with the second
80/		design document's white outline.
205		3. Add a black line separating each section of the design, following the same
095		format as in the second document (e.g., a horizontal line separating the first and
090		second sections and a vertical line separating the second and third sections).
897		4. Adjust and resize the images and text elements within the design to fit the new
898		layout, ensuring that they align properly with the new background and border.
899		5. Save the modified design document and ensure that the new changes have been
900		applied correctly.
901	mPLUG-OWI3-7B	change the background to a black screen.
902	Intern VL1.3-20B	To modify the first design document to match the second design document, follow
903		1. Ensure that the background color of the first design document is changed to
904		1. Ensure that the background color of the second design document
905		2 Adjust the font size of the text in the first design document to match the font
906		size in the second design document
907		3 Change the font style of the text in the first design document to match the font
908		style in the second design document
909		4. If there are any additional elements or text in the second design document that
910		are not present in the first, add them to the first design document.
911		5. If there are any elements or text in the first design document that are not present
912		in the second, remove them from the first design document.
913		6. Ensure that the overall layout of the first design document is consistent with
01/		the layout of the second design document.
015		By following these steps, the first design document will be modified to match the
016		second design document.
310 017		-
and if if		

918		
919	InternVL2-8B	To modify the first design document to match the second design document, follow
920		these specific instructions:
921		1. Background: - Change the background to a solid color. The second design
922		document has a solid black background.
923		2. Text: - Adjust the text to match the second design document The text in the
924		second design document is in a white, cursive font The text in the first design
925		document is in a white, serif font Change the font to a cursive, white font.
926		3. Icons: - Ensure the icons are identical to those in the second design document.
927		- The icons in the first design document are slightly different in color and style
028		compared to the second design document Match the colors and style of the
020		1 cons to those in the second design document.
020		4. Layout: - Adjust the layout to match the second design document The
021		alignment - Adjust the spacing and alignment of the icons and text to match the
901		second design document
932		5 Color Scheme: - Ensure the color scheme matches the second design doc-
933		ument The color scheme in the first design document is slightly different
934		Match the colors used in the second design document.
935		By following these instructions, the first design document can be modified to
936		match the second design document.
937		C C
938	InternVL2-76B	To modify the first design document to match the second design document, follow
939		these specific instructions:
940		1. Text Alignment: - In the first design document, the text "Advent of technology,
941		losing sense of human relationship, Save it" is aligned to the left In the second
942		design document, the text is centered Instruction: Center align the text "Advent
943		of technology, losing sense of human relationship, Save it' in the first design
944		document.
945		2. Text Font Size: - The text font size in the first design document appears slightly
946		size of the text "A dvent of technology losing sense of human relationship. Save
947		it' in the first design document to match the font size in the second design docu-
948		ment
949		3. Text Position: - The text in the first design document is positioned slightly
950		higher compared to the second design document Instruction: Move the text
951		"Advent of technology, losing sense of human relationship, Save it" downward
952		in the first design document to match the vertical position in the second design
953		document.
954		4. Text Spacing: - The line spacing between the words in the first design doc-
955		ument appears tighter compared to the second design document Instruction:
956		Increase the line spacing (leading) between the words in the first design docu-
957		ment to match the spacing in the second design document.
958		By following these instructions, the first design document will be modified to
959		match the second design document.
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974 non-text design element. 975 976 977 GUIDE DES TAILLES GUIDE DES TAILLES 978 979 980 981 982 983 984 985 Model **Generated Instruction** 986 Ground Truth 1. Image Addition: - Location: Under the section titled "MESURER LA TAILLE 987 DE BAGUE AVEC UN CALIBREUR" and to the left of the numbered list. 988 - Add Content: The image of the calibrator with a belt-like structure with a trans-989 parent background. 990 Ensure that the new image is properly aligned and scaled to match the design 991 consistency of the original document. The rest of the content remains unchanged. 992 Otter-7B The logical choice, given the rationale 'The first two documents are almost the 993 same. the only difference is the color in the third image.', would be: change color. 994 **IDEFICS-9B** The first two images are two design documents that are almost the same, the 995 differences are indicated in the third mask image 996 . Please write the specific instructions to modify the first design document to 997 match the second design document. The first two images are two design documents that are almost the same, the 998 differences are indicated in the third mask image 999 . Please write the specific instructions to modify the first design document to 1000 match the second design document. 1001 The first two images are two design documents that are almost the same, the 1002 differences are indicated in the third mask image 1003 . Please write the specific instructions to modify the first design document to 1004 match the second design document. The first two images are two design documents that are almost the same, the differences are indicated in the third mask image 1007 . Please write the specific instructions to modify the first design document to match the second design document. 1008 FUYU-8B 1. Passez le bout du Calibreur à travers la boîte (comme une ceinture) pour créer 1009 une forme de boîte. 2. Faites glisser de calibreur autour de votre doigt. 3. Lisez 1010 votre taille de bague loesque vous avez attendu la boîne taille. 4. Lisez votre 1011 taille de bague lorsque vous avez attendu la boîne taille. 5. Mesurez la taille de 1012 bague avant de la mettre en milieu. 6. Mesurez la taille de bague après avoir 1013 mis le doigt dans la boîte. 7. Faites glisser de calibreur autour de votre doigt. 8. 1014 Mesurez la taille de bague après avoir mis le doigt dans la boîte. 9. Faites glisser 1015 de calibreur autour de votre doigt. 10. Mesurez la taille de bague après avoir mis 1016 le doigt dans la boîte. 1017 1. Placez une règle une fois bague. 2. Mesurez votre taille de bague pour déterminer bague. 3. Mesurez votre taille de bague après avoir mis le doigt dans la boîte. 4. Mesurez la taille de bague après avoir mis le doigt dans la boîte. 5. Faites glisser de calibreur autour de votre doigt. 6. Mesurez la taille de bague après avoir mis le doigt dans la boîte. 7. Mesurez la taille de bague après avoir 1021 mis le doigt dans la boîte. 8. Faites glisse de calibreur autour de votre doigt. 9. Mesurez la taille de bague après avoir mis le doigt dans la boîte. 10. Faites glisse 1023 d'un calibreur autour de votre doigt. 1024 Placez une règle une fois bague. 1025

Table 9: Instructions generated by the eight tested MLLMs on the *Inpainting* task for editing single

1026		
1027	mPLUG-Owl-7B	To modify the design document in the third image to match the design document
1028		in the second image, follow these steps:
1029		1. Open the first design document and make sure you have the correct dimensions
1030		of the design.
1031		2. Open the second design document and check the dimensions of the elements
1032		and text.
1033		3. Copy and paste the elements from the second design document into the first
1034		design document, ensuring that the placement and alignment are correct.
1035		4. Adjust the dimensions of the elements as necessary to align them with their
1036		5 Make any necessary changes to the taxt and other elements to ensure consist
1037		5. Make any necessary changes to the text and other elements to ensure consis- tency with the second document's layout
1038		6. Save the modified document and use it as the final template for creating the
1039		design.
1040	mPLUG-Owl3-7B	change the color of the document to white.
1041	InternVL1.5-26B	The third image is a black rectangle with a white border.
1042	InternVL2-8B	To modify the first design document to match the second design document, you
1042		need to make the following changes:
1044		1. Title and Header: - Change the title "GUIDE DES TAILLES" to "GUIDE
1045		DES TAILLES DE BAGUE" to match the second design document.
1045		2. Section Titles: - Change the section titles "MESURER LA TAILLE DE
1040		BAGUE AVEC UN CALIBREUR" and "MESURER LA TAILLE DE BAGUE
1047		AVEC UNE REGLE" to "MESURER LA TAILLE DE BAGUE AVEC UN CAL-
1040		IBREUR" and "MESURER LA TAILLE DE BAGUE AVEC UNE REGLE" re-
1049		spectively, to match the second design document.
1054		5. Instructions: - For each section, ensure the instructions are identical to mose in the second design document
1051		A Measurement Table: - Ensure the measurement table is identical to the one in
1052		the second design document. The measurements and corresponding sizes should
1053		he the same.
1054		5. Images: - Replace the image of the ring in the first design document with the
1055		image of the ring in the second design document.
1056		6. Color Scheme: - Ensure the color scheme of the first design document matches
1057		the second design document. The pink header and white background should be
1058		consistent.
1059		7. Font and Style: - Ensure the font and style of the text in the first design
1060		document match the second design document. The font should be consistent
1061		throughout.
1062		By making these changes, the first design document will match the second design
1063	InternVI 2 76P	To modify the first design document to match the second design document, follow
1064	Intern v L2-70D	these specific instructions:
1065		1. Change the Image in the First Section: - Replace the image of the gold ring
1066		with a heart in the first section with the image of a white bracelet with a ruler.
1067		2. Update the Text in the First Section: - Replace the text "MESURER LA
1068		TAILLE DE BAGUE AVEC UN CALIBREUR" with "MESURER LA TAILLE
1069		DE BAGUE AVEC UN RÈGLE."
1070		3. Modify the Steps in the First Section: - Update the steps to reflect the use
1071		of a ruler instead of a caliper: 1. Place the ruler on one of your well-adjusted
1072		bracelets or have someone else help you with this. 2. Measure with the ruler
1073		the interior diameter of the bracelet to determine the size you need. 3. Note this
1074		By following these instructions, the first design decument will be modified to
1075		by following these instructions, the first design document will be modified to match the second design document
1076		
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