

Prompt Exploration

MODÈLES

Les modèles testés sont les suivants :

- llava:7b (7b)
- llava:13b (13b)
- llava:34b (34b)
- llava-llama3 (8b)
- llama3.2-vision (11b)
- gemma3:4b (4b)
- gemma3:12b (12b)
- gemma3:27b (27b)

Les résultats observés sur 13 prompts sont les suivants :

- llama3.2-vision a obtenu les meilleurs scores pour chaque prompt testé
- les modèles llava ont tendances à obtenir les pires résultats en moyenne

gemma3:12b	gemma3:27b	gemma3:4b	llama3.2-vision	llava	llava-llama3	llava:13b	llava:34b	
31	30	29	40	25	22	28	20	
26	27	18	33	19	17	21	14	
28	30	24	35	25	21	25	25	
26	33	21	30	25	24	25	17	
29	33	23	39	25	26	26	22	
18	11	13	23	12	11	11	11	
22	22	23	32	17	22	20	23	
27	32	24	37	24	13	25	22	
29	31	27	36	27	22	25	26	
34	35	28	38	17	26	23	21	
36	35	27	36	24	24	26	25	
30	29	25	37	26	23	26	24	
31	33	24	33	22	27	25	24	
367	381	306	449	288	278	306	274	TOTAL
3	2	4	1	6	7	4	8	
Max	Max-1	Max-2	Max-3-5		Min+3-5	Min+2	Min+1	Min

- la taille des modèles semble avoir un impact assez imprévisible, par exemple pour llava on a eu les résultats suivants llava:34b < llava:7b < llava:13b, donc le plus grand modèle a eu les pires résultats et le modèle de taille moyenne a eu les meilleurs résultats.

Pour gemma3 les scores ont suivi la taille du modèle.

Model	gemma3:12b	gemma3:27b	gemma3:4b
gemma3:12b	0.00	0.00	0.00
gemma3:27b	0.00	0.00	0.00
gemma3:4b	0.00	0.00	0.00

[illegible]

2.png

[illegible]

7.png

- La plupart du temps gemma3:12b réussit à identifier correctement 2.png mais pas 7.png alors que gemma3:27b réussit à identifier correctement 7.png mais pas 2.png.

llava et gemma réussissent/ratent sur différentes images, par exemple :

[illegible]

04.png

gemma3					llava			
Question	gemma3	gemma3	gemma3	gemma3	llava	llava	llava	llava
Q: What is the capital of France? A: Paris	Yes	Yes	Yes	Yes	No	Yes	No	No
Q: What is the capital of Germany? A: Berlin	Yes	Yes	Yes	Yes	No	No	No	No
Q: What is the capital of Italy? A: Rome	No	Yes	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of the United Kingdom? A: London	No	Yes	No	No	No	No	No	No
Q: What is the capital of Japan? A: Tokyo	Yes	Yes	Yes	Yes	No	No	No	No
Q: What is the capital of Australia? A: Canberra	No	No	No	No	No	No	No	No
Q: What is the capital of Brazil? A: Brasilia	No	No	No	No	No	No	No	No
Q: What is the capital of India? A: New Delhi	No	No	No	No	No	No	No	No
Q: What is the capital of China? A: Beijing	No	No	No	No	No	No	No	No
Q: What is the capital of Russia? A: Moscow	No	No	No	No	No	No	No	No
Q: What is the capital of South Africa? A: Pretoria	No	No	No	No	No	No	No	No
Q: What is the capital of Egypt? A: Cairo	No	No	No	No	No	No	No	No
Q: What is the capital of Saudi Arabia? A: Riyadh	No	No	No	No	No	No	No	No
Q: What is the capital of Turkey? A: Ankara	No	No	No	No	No	No	No	No
Q: What is the capital of Greece? A: Athens	No	No	No	No	No	No	No	No
Q: What is the capital of Poland? A: Warsaw	No	No	No	No	No	No	No	No
Q: What is the capital of Czech Republic? A: Prague	No	No	No	No	No	No	No	No
Q: What is the capital of Slovakia? A: Bratislava	No	No	No	No	No	No	No	No
Q: What is the capital of Hungary? A: Budapest	No	No	No	No	No	No	No	No
Q: What is the capital of Romania? A: Bucharest	No	No	No	No	No	No	No	No
Q: What is the capital of Bulgaria? A: Sofia	No	No	No	No	No	No	No	No
Q: What is the capital of Serbia? A: Belgrade	No	No	No	No	No	No	No	No
Q: What is the capital of Croatia? A: Zagreb	No	No	No	No	No	No	No	No
Q: What is the capital of Slovenia? A: Ljubljana	No	No	No	No	No	No	No	No
Q: What is the capital of Austria? A: Vienna	No	No	No	No	No	No	No	No
Q: What is the capital of Switzerland? A: Bern	No	No	No	No	No	No	No	No
Q: What is the capital of Netherlands? A: Amsterdam	No	No	No	No	No	No	No	No
Q: What is the capital of Belgium? A: Brussels	No	No	No	No	No	No	No	No
Q: What is the capital of Luxembourg? A: Luxembourg	No	No	No	No	No	No	No	No
Q: What is the capital of Portugal? A: Lisbon	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of France? A: Paris	No	No	No	No	No	No	No	No
Q: What is the capital of Germany? A: Berlin	No	No	No	No	No	No	No	No
Q: What is the capital of Italy? A: Rome	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of the United Kingdom? A: London	No	No	No	No	No	No	No	No
Q: What is the capital of Japan? A: Tokyo	No	No	No	No	No	No	No	No
Q: What is the capital of Australia? A: Canberra	No	No	No	No	No	No	No	No
Q: What is the capital of Brazil? A: Brasilia	No	No	No	No	No	No	No	No
Q: What is the capital of India? A: New Delhi	No	No	No	No	No	No	No	No
Q: What is the capital of China? A: Beijing	No	No	No	No	No	No	No	No
Q: What is the capital of Russia? A: Moscow	No	No	No	No	No	No	No	No
Q: What is the capital of South Africa? A: Pretoria	No	No	No	No	No	No	No	No
Q: What is the capital of Egypt? A: Cairo	No	No	No	No	No	No	No	No
Q: What is the capital of Saudi Arabia? A: Riyadh	No	No	No	No	No	No	No	No
Q: What is the capital of Turkey? A: Ankara	No	No	No	No	No	No	No	No
Q: What is the capital of Greece? A: Athens	No	No	No	No	No	No	No	No
Q: What is the capital of Poland? A: Warsaw	No	No	No	No	No	No	No	No
Q: What is the capital of Czech Republic? A: Prague	No	No	No	No	No	No	No	No
Q: What is the capital of Slovakia? A: Bratislava	No	No	No	No	No	No	No	No
Q: What is the capital of Hungary? A: Budapest	No	No	No	No	No	No	No	No
Q: What is the capital of Romania? A: Bucharest	No	No	No	No	No	No	No	No
Q: What is the capital of Bulgaria? A: Sofia	No	No	No	No	No	No	No	No
Q: What is the capital of Serbia? A: Belgrade	No	No	No	No	No	No	No	No
Q: What is the capital of Croatia? A: Zagreb	No	No	No	No	No	No	No	No
Q: What is the capital of Slovenia? A: Ljubljana	No	No	No	No	No	No	No	No
Q: What is the capital of Austria? A: Vienna	No	No	No	No	No	No	No	No
Q: What is the capital of Switzerland? A: Bern	No	No	No	No	No	No	No	No
Q: What is the capital of Netherlands? A: Amsterdam	No	No	No	No	No	No	No	No
Q: What is the capital of Belgium? A: Brussels	No	No	No	No	No	No	No	No
Q: What is the capital of Luxembourg? A: Luxembourg	No	No	No	No	No	No	No	No
Q: What is the capital of Portugal? A: Lisbon	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of France? A: Paris	No	No	No	No	No	No	No	No
Q: What is the capital of Germany? A: Berlin	No	No	No	No	No	No	No	No
Q: What is the capital of Italy? A: Rome	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of the United Kingdom? A: London	No	No	No	No	No	No	No	No
Q: What is the capital of Japan? A: Tokyo	No	No	No	No	No	No	No	No
Q: What is the capital of Australia? A: Canberra	No	No	No	No	No	No	No	No
Q: What is the capital of Brazil? A: Brasilia	No	No	No	No	No	No	No	No
Q: What is the capital of India? A: New Delhi	No	No	No	No	No	No	No	No
Q: What is the capital of China? A: Beijing	No	No	No	No	No	No	No	No
Q: What is the capital of Russia? A: Moscow	No	No	No	No	No	No	No	No
Q: What is the capital of South Africa? A: Pretoria	No	No	No	No	No	No	No	No
Q: What is the capital of Egypt? A: Cairo	No	No	No	No	No	No	No	No
Q: What is the capital of Saudi Arabia? A: Riyadh	No	No	No	No	No	No	No	No
Q: What is the capital of Turkey? A: Ankara	No	No	No	No	No	No	No	No
Q: What is the capital of Greece? A: Athens	No	No	No	No	No	No	No	No
Q: What is the capital of Poland? A: Warsaw	No	No	No	No	No	No	No	No
Q: What is the capital of Czech Republic? A: Prague	No	No	No	No	No	No	No	No
Q: What is the capital of Slovakia? A: Bratislava	No	No	No	No	No	No	No	No
Q: What is the capital of Hungary? A: Budapest	No	No	No	No	No	No	No	No
Q: What is the capital of Romania? A: Bucharest	No	No	No	No	No	No	No	No
Q: What is the capital of Bulgaria? A: Sofia	No	No	No	No	No	No	No	No
Q: What is the capital of Serbia? A: Belgrade	No	No	No	No	No	No	No	No
Q: What is the capital of Croatia? A: Zagreb	No	No	No	No	No	No	No	No
Q: What is the capital of Slovenia? A: Ljubljana	No	No	No	No	No	No	No	No
Q: What is the capital of Austria? A: Vienna	No	No	No	No	No	No	No	No
Q: What is the capital of Switzerland? A: Bern	No	No	No	No	No	No	No	No
Q: What is the capital of Netherlands? A: Amsterdam	No	No	No	No	No	No	No	No
Q: What is the capital of Belgium? A: Brussels	No	No	No	No	No	No	No	No
Q: What is the capital of Luxembourg? A: Luxembourg	No	No	No	No	No	No	No	No
Q: What is the capital of Portugal? A: Lisbon	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of France? A: Paris	No	No	No	No	No	No	No	No
Q: What is the capital of Germany? A: Berlin	No	No	No	No	No	No	No	No
Q: What is the capital of Italy? A: Rome	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of the United Kingdom? A: London	No	No	No	No	No	No	No	No
Q: What is the capital of Japan? A: Tokyo	No	No	No	No	No	No	No	No
Q: What is the capital of Australia? A: Canberra	No	No	No	No	No	No	No	No
Q: What is the capital of Brazil? A: Brasilia	No	No	No	No	No	No	No	No
Q: What is the capital of India? A: New Delhi	No	No	No	No	No	No	No	No
Q: What is the capital of China? A: Beijing	No	No	No	No	No	No	No	No
Q: What is the capital of Russia? A: Moscow	No	No	No	No	No	No	No	No
Q: What is the capital of South Africa? A: Pretoria	No	No	No	No	No	No	No	No
Q: What is the capital of Egypt? A: Cairo	No	No	No	No	No	No	No	No
Q: What is the capital of Saudi Arabia? A: Riyadh	No	No	No	No	No	No	No	No
Q: What is the capital of Turkey? A: Ankara	No	No	No	No	No	No	No	No
Q: What is the capital of Greece? A: Athens	No	No	No	No	No	No	No	No
Q: What is the capital of Poland? A: Warsaw	No	No	No	No	No	No	No	No
Q: What is the capital of Czech Republic? A: Prague	No	No	No	No	No	No	No	No
Q: What is the capital of Slovakia? A: Bratislava	No	No	No	No	No	No	No	No
Q: What is the capital of Hungary? A: Budapest	No	No	No	No	No	No	No	No
Q: What is the capital of Romania? A: Bucharest	No	No	No	No	No	No	No	No
Q: What is the capital of Bulgaria? A: Sofia	No	No	No	No	No	No	No	No
Q: What is the capital of Serbia? A: Belgrade	No	No	No	No	No	No	No	No
Q: What is the capital of Croatia? A: Zagreb	No	No	No	No	No	No	No	No
Q: What is the capital of Slovenia? A: Ljubljana	No	No	No	No	No	No	No	No
Q: What is the capital of Austria? A: Vienna	No	No	No	No	No	No	No	No
Q: What is the capital of Switzerland? A: Bern	No	No	No	No	No	No	No	No
Q: What is the capital of Netherlands? A: Amsterdam	No	No	No	No	No	No	No	No
Q: What is the capital of Belgium? A: Brussels	No	No	No	No	No	No	No	No
Q: What is the capital of Luxembourg? A: Luxembourg	No	No	No	No	No	No	No	No
Q: What is the capital of Portugal? A: Lisbon	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of France? A: Paris	No	No	No	No	No	No	No	No
Q: What is the capital of Germany? A: Berlin	No	No	No	No	No	No	No	No
Q: What is the capital of Italy? A: Rome	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of the United Kingdom? A: London	No	No	No	No	No	No	No	No
Q: What is the capital of Japan? A: Tokyo	No	No	No	No	No	No	No	No
Q: What is the capital of Australia? A: Canberra	No	No	No	No	No	No	No	No
Q: What is the capital of Brazil? A: Brasilia	No	No	No	No	No	No	No	No
Q: What is the capital of India? A: New Delhi	No	No	No	No	No	No	No	No
Q: What is the capital of China? A: Beijing	No	No	No	No	No	No	No	No
Q: What is the capital of Russia? A: Moscow	No	No	No	No	No	No	No	No
Q: What is the capital of South Africa? A: Pretoria	No	No	No	No	No	No	No	No
Q: What is the capital of Egypt? A: Cairo	No	No	No	No	No	No	No	No
Q: What is the capital of Saudi Arabia? A: Riyadh	No	No	No	No	No	No	No	No
Q: What is the capital of Turkey? A: Ankara	No	No	No	No	No	No	No	No
Q: What is the capital of Greece? A: Athens	No	No	No	No	No	No	No	No
Q: What is the capital of Poland? A: Warsaw	No	No	No	No	No	No	No	No
Q: What is the capital of Czech Republic? A: Prague	No	No	No	No	No	No	No	No
Q: What is the capital of Slovakia? A: Bratislava	No	No	No	No	No	No	No	No
Q: What is the capital of Hungary? A: Budapest	No	No	No	No	No	No	No	No
Q: What is the capital of Romania? A: Bucharest	No	No	No	No	No	No	No	No
Q: What is the capital of Bulgaria? A: Sofia	No	No	No	No	No	No	No	No
Q: What is the capital of Serbia? A: Belgrade	No	No	No	No	No	No	No	No
Q: What is the capital of Croatia? A: Zagreb	No	No	No	No	No	No	No	No
Q: What is the capital of Slovenia? A: Ljubljana	No	No	No	No	No	No	No	No
Q: What is the capital of Austria? A: Vienna	No	No	No	No	No	No	No	No
Q: What is the capital of Switzerland? A: Bern	No	No	No	No	No	No	No	No
Q: What is the capital of Netherlands? A: Amsterdam	No	No	No	No	No	No	No	No
Q: What is the capital of Belgium? A: Brussels	No	No	No	No	No	No	No	No
Q: What is the capital of Luxembourg? A: Luxembourg	No	No	No	No	No	No	No	No
Q: What is the capital of Portugal? A: Lisbon	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of France? A: Paris	No	No	No	No	No	No	No	No
Q: What is the capital of Germany? A: Berlin	No	No	No	No	No	No	No	No
Q: What is the capital of Italy? A: Rome	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of the United Kingdom? A: London	No	No	No	No	No	No	No	No
Q: What is the capital of Japan? A: Tokyo	No	No	No	No	No	No	No	No
Q: What is the capital of Australia? A: Canberra	No	No	No	No	No	No	No	No
Q: What is the capital of Brazil? A: Brasilia	No	No	No	No	No	No	No	No
Q: What is the capital of India? A: New Delhi	No	No	No	No	No	No	No	No
Q: What is the capital of China? A: Beijing	No	No	No	No	No	No	No	No
Q: What is the capital of Russia? A: Moscow	No	No	No	No	No	No	No	No
Q: What is the capital of South Africa? A: Pretoria	No	No	No	No	No	No	No	No
Q: What is the capital of Egypt? A: Cairo	No	No	No	No	No	No	No	No
Q: What is the capital of Saudi Arabia? A: Riyadh	No	No	No	No	No	No	No	No
Q: What is the capital of Turkey? A: Ankara	No	No	No	No	No	No	No	No
Q: What is the capital of Greece? A: Athens	No	No	No	No	No	No	No	No
Q: What is the capital of Poland? A: Warsaw	No	No	No	No	No	No	No	No
Q: What is the capital of Czech Republic? A: Prague	No	No	No	No	No	No	No	No
Q: What is the capital of Slovakia? A: Bratislava	No	No	No	No	No	No	No	No
Q: What is the capital of Hungary? A: Budapest	No	No	No	No	No	No	No	No
Q: What is the capital of Romania? A: Bucharest	No	No	No	No	No	No	No	No
Q: What is the capital of Bulgaria? A: Sofia	No	No	No	No	No	No	No	No
Q: What is the capital of Serbia? A: Belgrade	No	No	No	No	No	No	No	No
Q: What is the capital of Croatia? A: Zagreb	No	No	No	No	No	No	No	No
Q: What is the capital of Slovenia? A: Ljubljana	No	No	No	No	No	No	No	No
Q: What is the capital of Austria? A: Vienna	No	No	No	No	No	No	No	No
Q: What is the capital of Switzerland? A: Bern	No	No	No	No	No	No	No	No
Q: What is the capital of Netherlands? A: Amsterdam	No	No	No	No	No	No	No	No
Q: What is the capital of Belgium? A: Brussels	No	No	No	No	No	No	No	No
Q: What is the capital of Luxembourg? A: Luxembourg	No	No	No	No	No	No	No	No
Q: What is the capital of Portugal? A: Lisbon	No	No	No	No	No	No	No	No
Q: What is the capital of Spain? A: Madrid	No	No	No	No	No	No	No	No
Q: What is the capital of France? A: Paris	No	No	No	No	No	No	No	No
Q: What is the capital of Germany? A: Berlin	No							

39.png

- La plupart du temps les modèles llava réussissent à identifier 04.png mais pas 39.png alors que gemma3 réussissent à identifier 39.png mais pas 04.png.

LONGUEUR DE LA RÉPONSE

Les réponses longues ont tendance à obtenir des résultats un petit peu mieux en moyenne d’après notre méthode d’évaluation (test si un des termes correct est présent dans la réponse), mais cela est au prix des conséquences suivantes :

- le temps d’exécution est beaucoup plus long (à peu près 3 fois plus longueur d’après nos observations)
- la réponse est beaucoup plus descriptive, donc elle a tendance à inclure des éléments qui nous sont inutiles tel que le robot, donc en pratique sa semble beaucoup moins exploitable que une réponse brève avec juste l’objet.

À cause de ces raisons nous ne comptons pas tester plus de prompts avec des réponses longues.

CONTENU DU PROMPT

Si un bras robot tient l’objet à identifier et prend une partie significative de l’image, il vaut mieux indiquer dans le prompt qu’il faut ignorer le bras robot ou donner un scénario dans lequel il est normal que le bras soit présent afin d’éviter que le modèle essaye d’identifier le bras au lieu de l’objet.

prompt	gemma3.12b	gemma3.27b	gemma3.4b	llama3.2-vision	llava	llava-llama3	llava-13b	llava-34b	TOTAL
Act as a robotic assistant that identifies tools. What is in your grip?	31	30	29	40	25	22	28	20	225
Based on what you see, you must identify the object. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	28	30	24	35	25	21	25	25	213
Identify the item in the image	26	33	21	30	25	24	25	17	201
Ignore the robotic arm. Focus only on the object being held. Identify it.	29	33	23	39	25	26	26	22	223
What is the object in the image? Answer with a single word.	18	11	13	23	12	11	11	11	110
What is the object in the image? Ignore the robot arm, focus on the object, Answer with a single word.	22	22	23	32	17	22	20	23	181
You are a robot. Based on what you see, you must identify the object. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	29	31	27	36	27	22	25	26	223
You are a warehouse robot sorting objects. What are you holding?	34	35	28	38	17	26	23	21	222
You are analyzing this image to detect the item held. Disregard the arm or background clutter.	36	35	27	36	24	24	26	25	233
You must identify the object. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	30	29	25	37	26	23	26	24	220
Your task is to classify the item. Do not describe the robot or background.	31	33	24	33	22	27	25	24	219
mentions the need to ignore the robot / robot arm									
doesn't mention the need to ignore the robot / robot arm									
doesn't mention the need to ignore the robot / robot arm, HOWEVER it gives a setting in which it is normal to have a robot arm									

Il est également possible de donner un contexte dans lequel il est normal d’avoir un bras robot tenant un objet, par exemple le prompt “Act as a robotic assistant that identifies tools. What is in your grip?”

Par exemple les prompts suivants diffèrent juste par la mention “You are a robot.” au début du prompt ainsi que “You will see a robotic arm in the image, but IGNORE IT, focus on the object.” :

prompt	gemma3.12b	gemma3.27b	gemma3.4b	llama3.2-vision	llava	llava-llama3	llava-13b	llava-34b	TOTAL
Based on what you see, you must identify the object. Be concise, identify the object.	26	27	18	33	19	17	21	14	175
Based on what you see, you must identify the object. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	28	30	24	35	25	21	25	25	213
You are a robot. Based on what you see, you must identify the object. Be concise, identify the object.	27	32	24	37	24	13	25	22	204
You are a robot. Based on what you see, you must identify the object. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	29	31	27	36	27	22	25	26	223

On observe que quelqu’une des 2 mentions améliore les résultats lorsque ajoutées. Notamment le prompt avec aucune des 2 mentions est bien pire, et celui avec les 2 mentions à les meilleurs scores

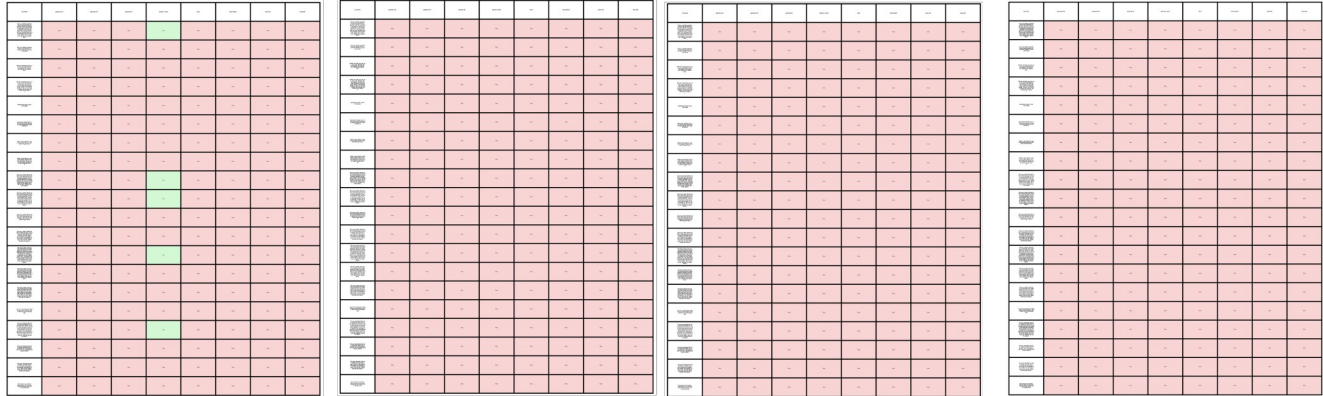
Pour les images sans bras robotique (images 48 à 60) cette mention erronée ne semble pas avoir d’impact.

Les modèles ont souvent tendance à détecter correctement/incorrectement toutes images d’un même objet, par exemple

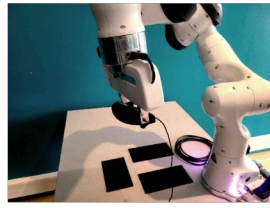
llama3.2-vision		111111111111	00000000	11110010	1111	00000000	00000100	111111111111	10	total :	33/27/60			
		mug	spo.	glo.	pla.	fan	soa.	con.	clo.	mo.	scr.	pcb	cle.

ici llama3.2-vision détecte correctement toutes les images de mug et aucune des images de l’assiette.

Certaines images ne sont jamais identifiées correctement, par exemple presque toutes les images de souris tenues par le bras robot ne sont jamais reconnues



33.png



34.png



35.png



36.png

Parfois ils détectent que c'est un objet tenu par le bras mais n'arrivent pas à l'identifier, parfois ils pensent que c'est une partie du robot (probablement à cause de la couleur)

prompt : "Ignore the robotic arm. Focus only on the object being held. Identify it."

```
model : llama3.2-vision
```

image : 34.jpg

réponse : "The **object being held by the robotic arm appears to be a small, rectangular piece of black material**. It is likely a piece of plastic or metal, possibly used for testing or demonstration purposes. The object's shape and size suggest that it may be a component of a larger device or system, but without more information, it is difficult to determine its exact purpose or function."

prompt : “You are a robot. You are analyzing this image to detect the item held. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.”

```
model : llava:7b
```

image : 37.png

réponse : "The object in the image is a robotic arm **with a camera mounted on it.**"

Les 3 rectangles visibles sur la table posent parfois problèmes car le modèle commence à les décrire, par exemple :

prompt : “You are a robot. Based on what you see, you must identify the object. Be concise, identify the object.”

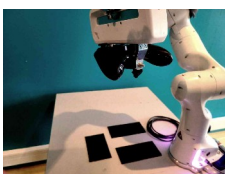


image : 28.jpg

modèle : llama3.2-vision

réponse : “The object in the image appears to be a collection of black cards or rectangles, possibly used for educational or artistic purposes. The cards are arranged on a flat surface and have a uniform size and shape. They may be made of cardboard, paper, or another material. Without more context, it is difficult to determine their exact purpose or meaning.”

MEILLEURS PROMPTS TROUVES

En se basant sur les meilleurs prompts trouvés plus haut, on a testé quelques combinaisons des parties qui avaient l’air de fonctionner.
Les 7 prompts testés ont les meilleurs scores trouvés jusqu’à présent, ils ont tous des scores assez proches.

	gemma3.12b	gemma3.27b	gemma3.4b	llama3.2-vision	llava	llava-llama3	llava-13b	llava-34b			
You are a robot. You are analyzing this image to detect the item held. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	33	34	28	40	28	25	27	30	245	3	
Act as a robotic assistant that identifies tools. Based on what you see, you must identify the object gripped in your robotic arm. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.	32	34	25	40	29	27	26	28	241	6	
You are analyzing this image to detect the item held. Based on what you see, you must identify the object gripped in your robotic arm. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.	35	33	29	41	27	24	26	28	243	5	
You are a robot. Based on what you see, you must identify the object gripped in your robotic arm. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.	36	36	28	40	27	27	26	28	248	1	
You are a robot. You are analyzing this image to detect the item held. Based on what you see, you must identify the object gripped in your robotic arm. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.	34	33	27	41	27	24	26	26	238	7	
You are a robot. You are analyzing this image to detect the item held. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.	34	34	31	37	28	26	28	30	246	1	
You are a robot. Based on what you see, you must identify the object gripped in your robotic arm. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	35	34	26	42	28	25	27	28	245	3	
	239	238	194	281	194	178	186	198	TOTAL		
	2	3	5	1	5	8	7	4		RANK	
	Max	Max-1	Max-2	Max-3	Max-4	Max-5	Max-6	Max-7			

Le prompt suivant est le meilleur retenu pour la suite des tests :

“You are a robot. Based on what you see, you must identify the object gripped in your robotic arm. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.”

RÉSULTATS SUR LES 20 PROMPTS

	gemma3.12b	gemma3.27b	gemma3.4b	llama3.2-vision	llava	llava-llama3	llava-13b	llava-34b			
Act as a robotic assistant that identifies tools. Based on what you see, you must identify the object gripped in your robotic arm. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.	32	34	25	40	29	27	25	28	241	6	
Act as a robotic assistant that identifies tools. What is in your grip?	31	30	29	40	25	22	28	20	225	9	
Based on what you see, you must identify the object. Be concise, identify the object.	26	27	18	33	19	17	21	14	175	19	
Based on what you see, you must identify the object. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	28	30	24	35	25	21	25	25	213	15	
Identify the item in the image	26	33	21	30	25	24	25	17	201	17	
Ignore the robotic arm. Focus only on the object being held. Identify it.	29	33	23	39	25	26	26	22	223	11	
What is the object in the image? Answer with a single word.	18	11	13	23	12	11	11	11	110	20	
What is the object in the image? Ignore the robot arm, focus on the object, Answer with a single word.	22	22	23	32	17	22	20	23	181	18	
You are a robot. Based on what you see, you must identify the object gripped in your robotic arm. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.	36	36	28	40	27	27	26	28	248	1	
You are a robot. Based on what you see, you must identify the object gripped in your robotic arm. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	35	34	26	42	28	25	27	28	245	3	
You are a robot. Based on what you see, you must identify the object. Be concise, identify the object.	27	32	24	37	24	13	25	22	204	16	
You are a robot. Based on what you see, you must identify the object. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	29	31	27	36	27	22	25	26	223	11	
You are a robot. You are analyzing this image to detect the item held. Based on what you see, you must identify the object gripped in your robotic arm. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.	34	33	27	41	27	24	26	26	238	7	
You are a robot. You are analyzing this image to detect the item held. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.	34	34	31	37	28	26	28	30	248	1	
You are a robot. You are analyzing this image to detect the item held. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	33	34	28	40	28	25	27	30	245	3	
You are a warehouse robot sorting objects. What are you holding?	34	35	28	38	17	26	23	21	222	12	
You are analyzing this image to detect the item held. Based on what you see, you must identify the object gripped in your robotic arm. Disregard the arm and background clutter, focus on the object. Be concise, identify the object.	35	33	29	41	27	24	26	28	243	5	
You are analyzing this image to detect the item held. Disregard the arm or background clutter.	36	35	27	36	24	24	26	25	233	8	
You must identify the object. You will see a robotic arm in the image, but IGNORE IT, focus on the object. Be concise, identify the object.	30	29	25	37	26	23	26	24	220	13	
Your task is to classify the item. Do not describe the robot or background.	31	33	24	33	22	27	25	24	219	14	
	606	619	500	730	482	456	492	472	TOTAL		
	3	2	4	1	6	8	5	7		RANK	
	Max	Max-1	Max-2	Max-3-5		Min+3-5	Min+2	Min+1	Min		