

QWEN 2.5VL

UNIVERSAL RECOGNITION



What are these attractions? Please give their names in Chinese and English.

Qwen2.5-VL

These attractions are:

Top left: The Great Pyramids of Giza (埃及的吉萨大金字塔)

Top right: The Great Wall of China (中国的长城)

Bottom left: The Statue of Liberty (美国的自由女神像)

Bottom right: The Terracotta Army (中国的秦始皇兵马俑)



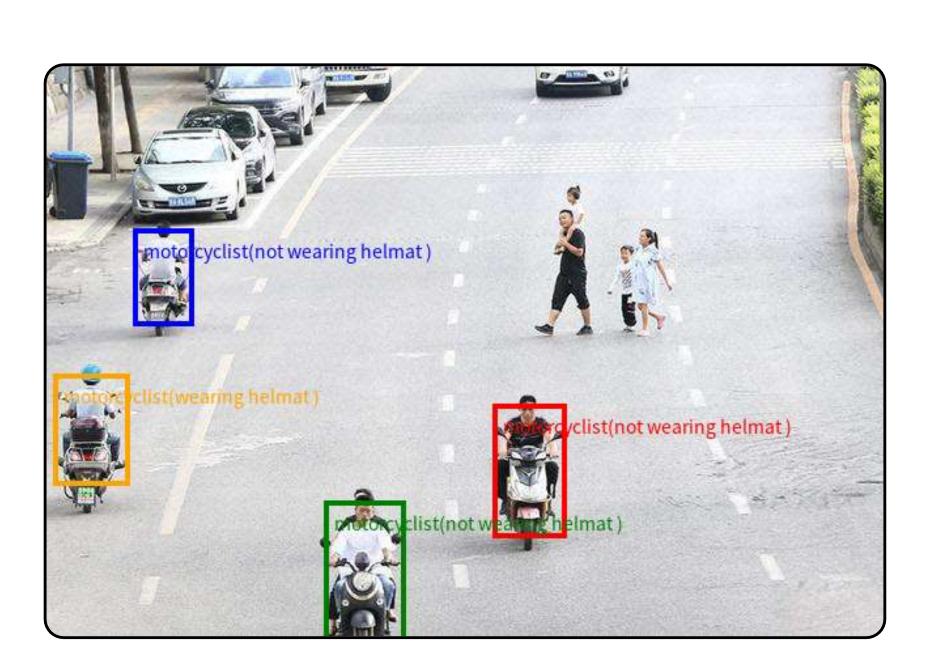






OBJECT DETECTION



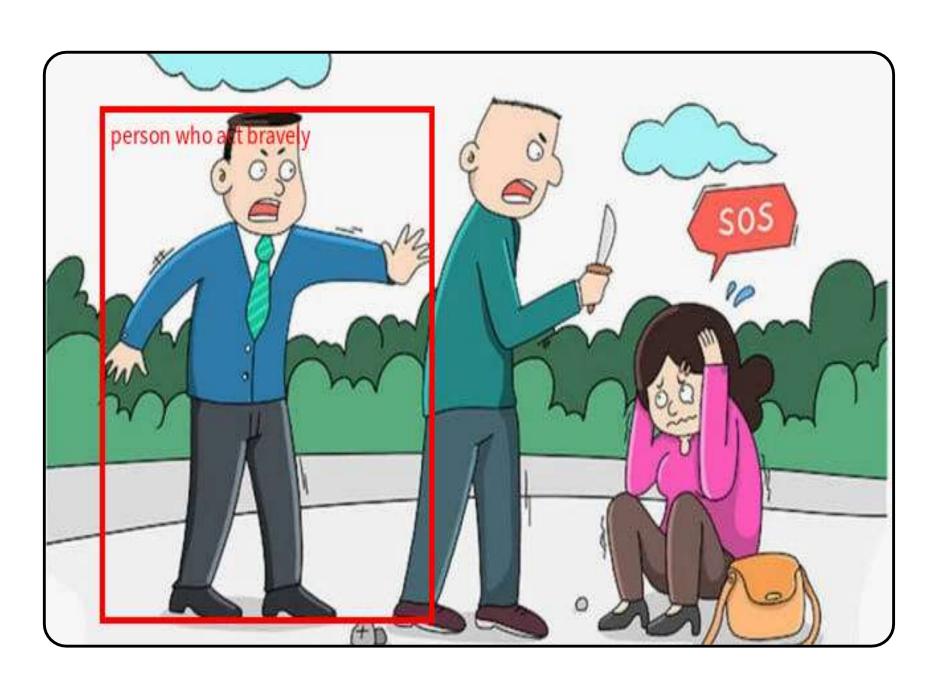


Detect all motorcyclists in the image and return their locations in the form of coordinates.

The format of output should be like {"bbox_2d": [x1, y1, x2, y2], "label": "motorcyclist", "sub_label": "wearing helmet" # or "not wearing helmet"}.

OBJECT DETECTION



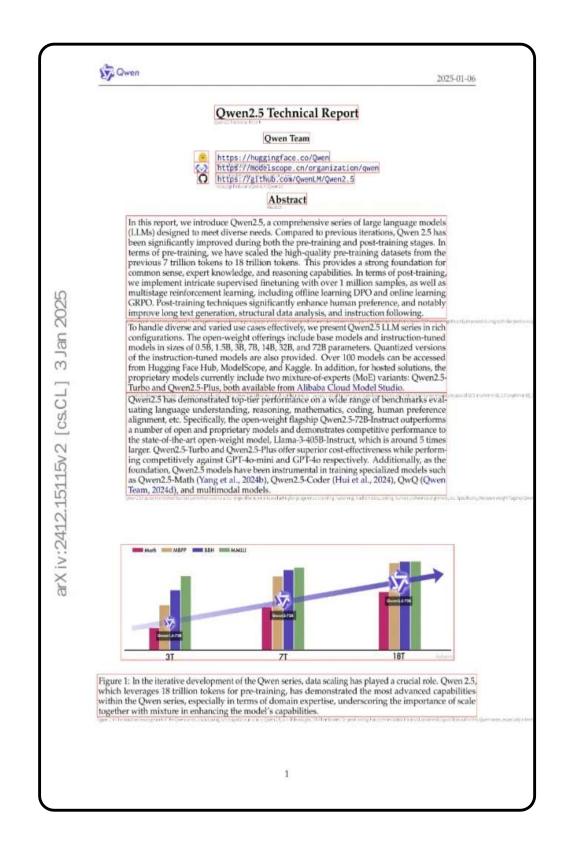


Locate the person who act bravely, report the bbox coordinates in JSON format.

DOCUMENT PARSING



 $\bullet \hspace{0.1cm} \bullet \hspace{0.1cm$



```
<a href="https://www.ncbody><hld><html><body><hld>data-bbox="879 283 1605 348">Qwen2.5</a>
Technical Report</hl>h1>
<address class="author">Qwen Team</address>
<div class="image" data-bbox="778 491 850 541"><img data-</pre>
bbox="778 491 850 541"/></div>
541">https://huggingface.co/Qwen
<div class="image" data-bbox="778 541 850 589"><img data-</pre>
bbox="778 541 850 589"/></div>
589">https://modelscope.cn/organization/qwen
<div class="image" data-bbox="792 589 850 639"><img data-</pre>
bbox="792 589 850 639"/></div>
639">https://github.com/QwenLM/Qwen2.5
<h2 data-bbox="1143 681 1344 733">Abstract</h2>
```

LONG VIDEO ANALYSIS





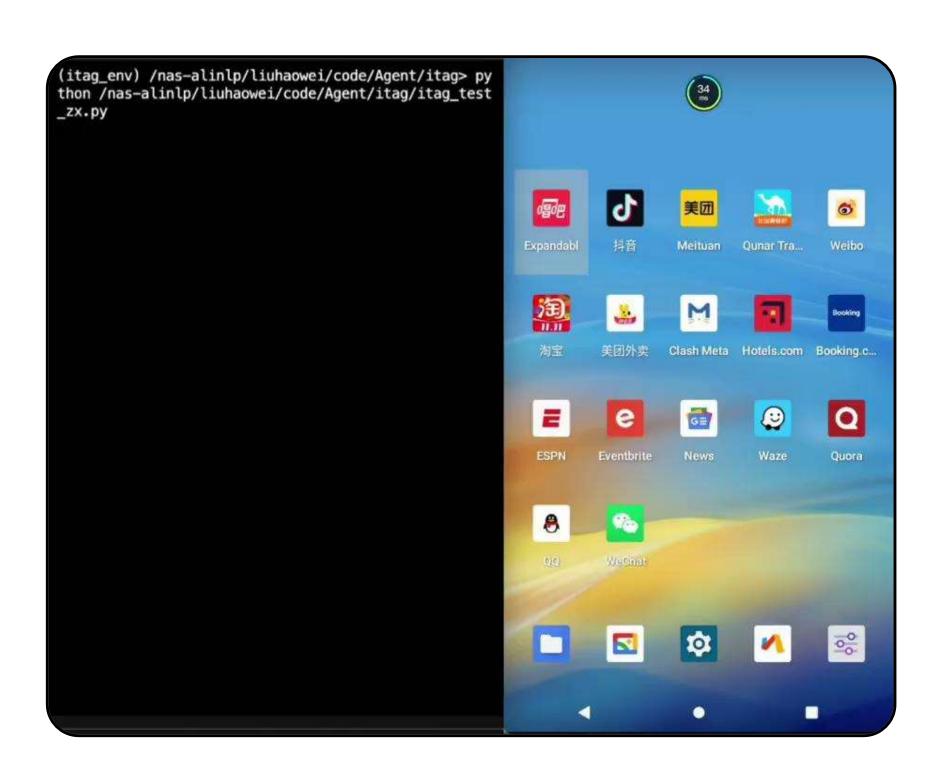
Localize a series of activity events in the video, output the start and end timestamp for each event, and describe each event with sentences. Provide the result in JSON.

```
"start_time": "00:21.00",
   "end_time": "00:49.00",
   "description": "A person removes a piece of meat from its
packaging and cuts off the fat."
    "start_time": "00:50.00",
   "end_time": "01:27.00",
   "description": "The person seasons the meat with salt and
pepper on both sides."
   "start_time": "01:28.00",
   "end_time": "01:36.00",
   "description": "The seasoned meat is placed on a grill."
```

AGENT ACTIONS



• • • • • • • • •



Please help me book a one-way ticket in the bookings app. The starting point is Chongqing Jiangbei Airport and the ending point is Beijing Capital Airport on January 28th



Usage

Qwen 2.5VL Chat Interface



```
chat_response = client.chat.completions.create(
  model="Qwen/Qwen2.5-VL-7B-Instruct",
  messages=[
    {"role": "system",
    "content": "You are a helpful assistant."
    { "role": "user",
      "content": [
          "type": "image_url",
          "image_url": {"url": "https://example.com/image.png"
                             "type": "text",
                             "text": "What is the text in the image?"
```

QWEN 2.5VL: ROLE



SYSTEM: Sets global behaviour

QWEN 2.5VL: ROLE



USER: Sends an image and text

MODEL CARD



Name	Qwen/Qwen2.5-VL-3B-Instruct		
Summary	Multi-modal LLM capable of image, video and tool-augmented chat.		
Parameters	3 billion		
Release Date	April 2025		
Developer	Alibaba Cloud (Qwen team)		
License	Qwen license (research/non-commercial); 3 B & 72 B sizes are not Apache 2.0.		

WILL IT FIT?



Model size	Precision	VRAM needed*	Consumer cards that clear it
Qwen 2.5-VL-3B	8-bit / BF16	6 – 8 GB	RTX 3060 12 GB, RTX 4060 8–16 GB, laptop 4070
Qwen 2.5-VL-7B	8-bit	12 – 14 GB	RTX 4070 12 GB (tight), RTX 4070 Ti 16 GB
	BF16	18 – 20 GB	RTX 3090 / 4090 24 GB
Qwen 2.5-VL-32B / 72B	Any	≥ 32 GB (32B) / ≥ 64 GB (72B) or multi-GPU	Prosumer/enterprise (RTX 6000 Ada 48 GB, dual 4090s, etc.)

IMAGE CAPTIONING



 $\bullet \hspace{0.1cm} \bullet \hspace{0.1cm$

INPUT

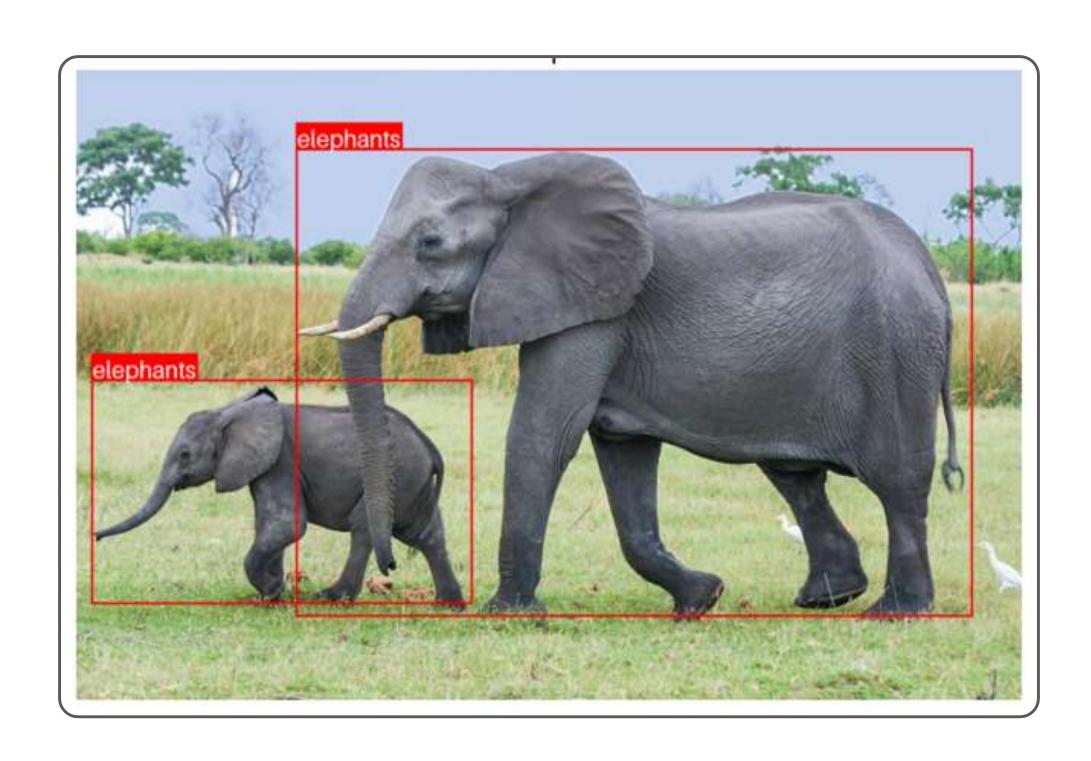


OUTPUT

The image depicts a serene and picturesque scene of a white doa sitting on a stone pathway near a stunning lake. The lake has crystal-clear turquoise water that reflects the surrounding landscape, including the mountains in the background. The mountains are covered with lush greenery, and the sky above is partly cloudy, adding to the tranquil atmosphere

OBJECT DETECTION & SPATIAL REASONING APP







Thank You