

```
# Install required libraries
!pip install transformers # Installs the transformers library for NLP models
!pip install imageio # Installs imageio to handle image files (e.g., GIFs)
!pip install gtts # Installs Google Text-to-Speech API for text-to-speech
!pip install bert-score # Installs the BERTScore metric library for evaluation
!pip install nltk # Installs the NLTK library for natural language processing tasks
!pip install rouge-score # Installs the Rouge score package for evaluation metrics
```

```
import os
import json
import random
import requests
import imageio
from PIL import Image
from io import BytesIO
import torch
from transformers import (
    BlipProcessor,
    BlipForConditionalGeneration,
    T5Tokenizer,
    T5ForConditionalGeneration,
    AdamW
)
from torch.utils.data import Dataset, DataLoader, random_split
from tqdm import tqdm
import nltk
from nltk.translate.bleu_score import sentence_bleu, corpus_bleu
# from nltk.translate.meteor_score import meteor_score
from rouge_score import rouge_scorer
from bert_score import score as bert_score_fn
import numpy as np
```

```
# Download NLTK data
nltk.download('wordnet')
```

```
Requirement already satisfied: transformers in
/usr/local/lib/python3.10/dist-packages (4.44.2)
Requirement already satisfied: filelock in
/usr/local/lib/python3.10/dist-packages (from transformers) (3.16.1)
Requirement already satisfied: huggingface-hub<1.0,>=0.23.2 in
/usr/local/lib/python3.10/dist-packages (from transformers) (0.24.7)
Requirement already satisfied: numpy>=1.17 in
/usr/local/lib/python3.10/dist-packages (from transformers) (1.26.4)
Requirement already satisfied: packaging>=20.0 in
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/usr/local/lib/python3.10/dist-packages (from transformers) (24.1)
Requirement already satisfied: pyyaml<=5.1 in
/usr/local/lib/python3.10/dist-packages (from transformers) (6.0.2)
Requirement already satisfied: regex!=2019.12.17 in
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Requirement already satisfied: requests in
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/usr/local/lib/python3.10/dist-packages (from transformers) (0.4.5)
Requirement already satisfied: tokenizers<0.20,>=0.19 in
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Requirement already satisfied: tqdm<=4.27 in
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/usr/local/lib/python3.10/dist-packages (from requests->transformers)
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/usr/local/lib/python3.10/dist-packages (from requests->transformers)
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Requirement already satisfied: certifi<=2017.4.17 in
/usr/local/lib/python3.10/dist-packages (from requests->transformers)
(2024.8.30)
Requirement already satisfied: imageio in
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Requirement already satisfied: numpy in
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Requirement already satisfied: pillow<=8.3.2 in
/usr/local/lib/python3.10/dist-packages (from imageio) (10.4.0)
Collecting gtts
 Downloading gtts-2.5.3-py3-none-any.whl.metadata (4.1 kB)
Requirement already satisfied: requests<3,>=2.27 in
/usr/local/lib/python3.10/dist-packages (from gtts) (2.32.3)
Requirement already satisfied: click<8.2,>=7.1 in
/usr/local/lib/python3.10/dist-packages (from gtts) (8.1.7)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.10/dist-packages (from requests<3,>=2.27->gtts)
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/usr/local/lib/python3.10/dist-packages (from requests<3,>=2.27->gtts)

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Downloading gTTS-2.5.3-py3-none-any.whl (29 kB)
Installing collected packages: gtts
Successfully installed gtts-2.5.3
Collecting bert-score
 Downloading bert_score-0.3.13-py3-none-any.whl.metadata (15 kB)
Requirement already satisfied: torch>=1.0.0 in
/usr/local/lib/python3.10/dist-packages (from bert-score)
(2.5.0+cu121)
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score) (3.4.2)
Requirement already satisfied: jinja2 in
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score) (2024.10.0)
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score) (1.13.1)
Requirement already satisfied: mpmath<1.4,>=1.1.0 in
/usr/local/lib/python3.10/dist-packages (from sympy==1.13.1-
>torch>=1.0.0->bert-score) (1.3.0)
Requirement already satisfied: huggingface-hub<1.0,>=0.23.2 in
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>bert-score) (0.24.7)
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/usr/local/lib/python3.10/dist-packages (from transformers>=3.0.0-
>bert-score) (6.0.2)
Requirement already satisfied: regex!=2019.12.17 in
/usr/local/lib/python3.10/dist-packages (from transformers>=3.0.0-
>bert-score) (2024.9.11)
Requirement already satisfied: safetensors>=0.4.1 in
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>bert-score) (0.4.5)
Requirement already satisfied: tokenizers<0.20,>=0.19 in
/usr/local/lib/python3.10/dist-packages (from transformers>=3.0.0-
>bert-score) (0.19.1)
Requirement already satisfied: contourpy>=1.0.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->bert-score)
(1.3.0)
Requirement already satisfied: cycler>=0.10 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->bert-score)
(0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in
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/usr/local/lib/python3.10/dist-packages (from matplotlib->bert-score)
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Requirement already satisfied: pillow>=6.2.0 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->bert-score)
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/usr/local/lib/python3.10/dist-packages (from matplotlib->bert-score)
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/usr/local/lib/python3.10/dist-packages (from requests->bert-score)
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Requirement already satisfied: idna<4,>=2.5 in
/usr/local/lib/python3.10/dist-packages (from requests->bert-score)
(3.10)

Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.10/dist-packages (from requests->bert-score)
(2.2.3)

Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.10/dist-packages (from requests->bert-score)
(2024.8.30)

Requirement already satisfied: six>=1.5 in
/usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.8.2-
>pandas>=1.0.1->bert-score) (1.16.0)

Requirement already satisfied: MarkupSafe>=2.0 in
/usr/local/lib/python3.10/dist-packages (from jinja2->torch>=1.0.0-
>bert-score) (3.0.2)

Downloading bert_score-0.3.13-py3-none-any.whl (61 kB)

61.1/61.1 kB 5.0 MB/s eta

0:00:00

Requirement already satisfied: nltk in /usr/local/lib/python3.10/dist-packages
(3.8.1)

Requirement already satisfied: click in
/usr/local/lib/python3.10/dist-packages (from nltk) (8.1.7)

Requirement already satisfied: joblib in
/usr/local/lib/python3.10/dist-packages (from nltk) (1.4.2)

Requirement already satisfied: regex>=2021.8.3 in
/usr/local/lib/python3.10/dist-packages (from nltk) (2024.9.11)

Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-
packages (from nltk) (4.66.6)

Collecting rouge-score

Downloading rouge_score-0.1.2.tar.gz (17 kB)

Preparing metadata (setup.py) ... Requirement already satisfied: absl-py
in /usr/local/lib/python3.10/dist-packages (from rouge-score) (1.4.0)
Requirement already satisfied: nltk in /usr/local/lib/python3.10/dist-
packages (from rouge-score) (3.8.1)

Requirement already satisfied: numpy in
/usr/local/lib/python3.10/dist-packages (from rouge-score) (1.26.4)

Requirement already satisfied: six>=1.14.0 in
/usr/local/lib/python3.10/dist-packages (from rouge-score) (1.16.0)

Requirement already satisfied: click in
/usr/local/lib/python3.10/dist-packages (from nltk->rouge-score)
(8.1.7)

Requirement already satisfied: joblib in
/usr/local/lib/python3.10/dist-packages (from nltk->rouge-score)
(1.4.2)

Requirement already satisfied: regex>=2021.8.3 in
/usr/local/lib/python3.10/dist-packages (from nltk->rouge-score)
(2024.9.11)

Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-
packages (from nltk->rouge-score) (4.66.6)

Building wheels for collected packages: rouge-score

Building wheel for rouge-score (setup.py) ... e=rouge_score-0.1.2-
py3-none-any.whl size=24935

```
sha256=7a78130f332a1bba9ba244bc114b897e2d69c8d4e0b85ba4d8182fba589cacc2
```

```
    Stored in directory:  
/root/.cache/pip/wheels/5f/dd/89/461065a73be61a532ff8599a28e9beef17985c9e9c31e541b4  
Successfully built rouge-score  
Installing collected packages: rouge-score  
Successfully installed rouge-score-0.1.2
```

```
[nltk_data] Downloading package wordnet to /root/nltk_data...
```

```
True
```

```
import os  
import json  
import random  
  
# Define paths  
metadata_file = 'datafile.json' # Path to your metadata file that  
contains GIF information  
gifs_dir = 'gifs_temp'          # Directory to temporarily store GIFs
```

```
# Create temporary GIFs directory if it doesn't exist  
os.makedirs(gifs_dir, exist_ok=True)
```

```
# Load metadata from the metadata file  
with open(metadata_file, 'r') as f:  
    metadata = json.load(f)
```

```
# Check if the dataset contains at least 300 GIFs, if not raise an  
error  
if len(metadata) < 300:  
    raise ValueError("The metadata file contains fewer than 100  
GIFs.")
```

```
# Randomly select 300 GIFs from the metadata for processing  
selected_gifs = random.sample(metadata, 300)
```

```
# Output the number of selected GIFs  
print(f"Selected {len(selected_gifs)} random GIFs for processing.")
```

```
Selected 300 random GIFs for processing.
```

```
import time
```

```
# Enhanced download function with retries  
def download_gif(url, save_path, max_retries=3, backoff_factor=2):  
    for attempt in range(1, max_retries + 1):  
        try:  
            headers = {  
                "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64;
```

```

x64)"
    }
    response = requests.get(url, headers=headers, timeout=10)
    response.raise_for_status()
    with open(save_path, 'wb') as f:
        f.write(response.content)
    print(f"Downloaded: {save_path}")
    return True
except requests.exceptions.HTTPError as http_err:
    print(f"HTTP error: {http_err} - Attempt {attempt}")
    if response.status_code == 404:
        break
except requests.exceptions.RequestException as req_err:
    print(f"Request error: {req_err} - Attempt {attempt}")
except Exception as e:
    print(f"Unexpected error: {e} - Attempt {attempt}")
# Exponential backoff
time.sleep(backoff_factor ** attempt)
print(f"Failed to download {url}")
return False

# Function to extract and preprocess frames from GIF
def extract_frames(gif_path, num_frames=10, frame_size=(256, 256)):
    try:
        gif = imageio.mimread(gif_path)
        total_frames = len(gif)

        if total_frames == 0:
            raise ValueError("No frames found in GIF.")

        interval = max(total_frames // num_frames, 1)
        selected_frames = [gif[i] for i in range(0, total_frames,
interval)][0:num_frames]

        processed_frames = []
        for frame in selected_frames:
            img = Image.fromarray(frame)
            if img.mode != 'RGB':
                img = img.convert('RGB')
            img_resized = img.resize(frame_size)
            processed_frames.append(np.array(img_resized))

        # Pad with the last frame or zeros
        while len(processed_frames) < num_frames:
            processed_frames.append(processed_frames[-1] if
processed_frames else np.zeros((frame_size[0], frame_size[1], 3),
dtype=np.uint8))

        return processed_frames

```

```

        except Exception as e:
            print(f"Failed to extract frames from {gif_path}: {e}")
            return []

# Function to delete GIF after processing
def delete_gif(gif_path):
    try:
        os.remove(gif_path)
        print(f"Deleted: {gif_path}")
    except Exception as e:
        print(f"Failed to delete {gif_path}: {e}")

import torch
import numpy as np
from tqdm import tqdm
import os

# Initialize lists to store data
target_frames = []
target_texts = []

# Process each GIF
for gif in tqdm(selected_gifs, desc="Processing GIFs"):
    gif_id = gif.get('id')
    url = gif.get('url')
    reference_description = gif.get('description')

    # Validate GIF entry
    if not gif_id or not url or not reference_description:
        print(f"Invalid GIF entry: {gif}")
        continue

    # Define local path to save the GIF temporarily
    gif_filename = f"{gif_id}.gif"
    gif_path = os.path.join(gifs_dir, gif_filename)

    # Download the GIF
    success = download_gif(url, gif_path)
    if not success:
        print(f"Skipping GIF {gif_id} due to download failure.")
        continue

    # Extract frames
    selected_frames = extract_frames(gif_path, num_frames=5)

    # Validate frame extraction
    if not selected_frames:
        print(f"No frames extracted for {gif_id}. Skipping.")
        delete_gif(gif_path)
        continue

```



```
# Append the extracted frames and corresponding text
target_frames.append(selected_frames)
target_texts.append(reference_description)
```

```
# Delete the downloaded GIF
delete_gif(gif_path)
```

Processing GIFs: 0%| | 1/300 [00:00<02:46, 1.80it/s]

Downloaded: gifs_temp/gif_42570.gif

Deleted: gifs_temp/gif_42570.gif

Processing GIFs: 1%| | 2/300 [00:00<02:17, 2.17it/s]

Downloaded: gifs_temp/gif_85128.gif

Deleted: gifs_temp/gif_85128.gif

Processing GIFs: 1%| | 3/300 [00:01<02:10, 2.28it/s]

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Processing GIFs: 1%|| | 4/300 [00:01<02:29, 1.98it/s]

Downloaded: gifs_temp/gif_21909.gif

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Processing GIFs: 2%|| | 5/300 [00:02<02:17, 2.14it/s]

Downloaded: gifs_temp/gif_89093.gif

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Processing GIFs: 2%|| | 6/300 [00:02<02:25, 2.03it/s]

Downloaded: gifs_temp/gif_62834.gif

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Processing GIFs: 2%|| | 7/300 [00:03<02:29, 1.96it/s]

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Processing GIFs: 3%|| | 8/300 [00:03<02:21, 2.07it/s]

Downloaded: gifs_temp/gif_25843.gif

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Processing GIFs: 3%|| | 9/300 [00:04<02:20, 2.07it/s]

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Processing GIFs: 3%|| | 10/300 [00:04<02:19, 2.08it/s]

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Processing GIFs: 4%|| | 11/300 [00:05<02:31, 1.91it/s]

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Processing GIFs: 4%|| | 12/300 [00:06<02:33, 1.88it/s]

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Processing GIFs: 4%|| | 13/300 [00:06<02:52, 1.66it/s]

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Processing GIFs: 5%|| | 14/300 [00:07<02:33, 1.86it/s]

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Processing GIFs: 5%|| | 15/300 [00:07<02:22, 2.00it/s]

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Processing GIFs: 5%|| | 16/300 [00:08<02:17, 2.06it/s]

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Processing GIFs: 6%|| | 17/300 [00:08<02:09, 2.19it/s]

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Processing GIFs: 6%|| | 18/300 [00:08<02:12, 2.12it/s]

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Processing GIFs: 6%|| | 19/300 [00:09<02:19, 2.02it/s]

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Processing GIFs: 7%|| | 20/300 [00:09<02:18, 2.01it/s]

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Processing GIFs: 7%|| | 21/300 [00:10<02:32, 1.82it/s]

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Processing GIFs: 7%|█| 22/300 [00:11<02:21, 1.96it/s]

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Processing GIFs: 8%|█| 23/300 [00:11<02:38, 1.75it/s]

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Processing GIFs: 8%|█| 24/300 [00:12<02:26, 1.89it/s]

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Processing GIFs: 8%|█| 25/300 [00:12<02:22, 1.93it/s]

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Processing GIFs: 9%|█| 26/300 [00:13<02:11, 2.08it/s]

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Processing GIFs: 9%|█| 28/300 [00:14<02:07, 2.14it/s]

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Processing GIFs: 10%|█| 29/300 [00:14<01:57, 2.30it/s]

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Processing GIFs: 10%|█| 30/300 [00:15<02:12, 2.04it/s]

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Processing GIFs: 10%|█| 31/300 [00:15<02:21, 1.90it/s]

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Processing GIFs: 11%|█| 32/300 [00:16<02:13, 2.00it/s]

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Processing GIFs: 11%|█| 33/300 [00:16<02:28, 1.80it/s]

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Processing GIFs: 11%|█| 34/300 [00:17<02:18, 1.92it/s]

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Processing GIFs: 12%|█| 35/300 [00:17<02:20, 1.88it/s]

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Processing GIFs: 12%|█| 36/300 [00:18<02:22, 1.86it/s]

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Processing GIFs: 12%|█| 37/300 [00:18<02:32, 1.73it/s]

Downloaded: gifs_temp/gif_17294.gif

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Processing GIFs: 13%|█| 38/300 [00:19<02:19, 1.87it/s]

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Processing GIFs: 13%|█| 39/300 [00:19<02:12, 1.96it/s]

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Processing GIFs: 13%|█| 40/300 [00:20<02:16, 1.91it/s]

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Processing GIFs: 14%|█| 41/300 [00:20<02:06, 2.05it/s]

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Processing GIFs: 14%|█| 42/300 [00:21<02:03, 2.08it/s]

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Processing GIFs: 14%|█| 43/300 [00:21<02:03, 2.09it/s]

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Processing GIFs: 15%|■| 44/300 [00:22<02:04, 2.06it/s]

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Processing GIFs: 15%|■| 45/300 [00:22<02:06, 2.01it/s]

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Processing GIFs: 15%|■| 46/300 [00:23<02:03, 2.06it/s]

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Processing GIFs: 16%|■| 47/300 [00:23<02:03, 2.05it/s]

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Processing GIFs: 16%|■| 48/300 [00:24<02:09, 1.95it/s]

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Processing GIFs: 16%|■| 49/300 [00:24<02:11, 1.91it/s]

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Processing GIFs: 17%|■| 50/300 [00:25<02:14, 1.86it/s]

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Processing GIFs: 17%|■| 51/300 [00:25<02:04, 2.00it/s]

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Processing GIFs: 17%|■| 52/300 [00:26<02:06, 1.96it/s]

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Processing GIFs: 18%|■| 53/300 [00:26<02:09, 1.91it/s]

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Processing GIFs: 18%|■| 54/300 [00:27<02:10, 1.88it/s]

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Processing GIFs: 18%|██████| 55/300 [00:27<02:08, 1.91it/s]

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Processing GIFs: 19%|██████| 56/300 [00:28<02:05, 1.94it/s]

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Processing GIFs: 19%|██████| 57/300 [00:28<01:54, 2.12it/s]

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Processing GIFs: 19%|██████| 58/300 [00:29<01:59, 2.03it/s]

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Processing GIFs: 20%|██████| 59/300 [00:30<02:14, 1.79it/s]

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Processing GIFs: 20%|██████| 60/300 [00:30<02:12, 1.81it/s]

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Processing GIFs: 20%|██████| 61/300 [00:31<02:05, 1.91it/s]

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Processing GIFs: 21%|██████| 62/300 [00:31<01:58, 2.01it/s]

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Processing GIFs: 21%|██████| 63/300 [00:32<01:59, 1.99it/s]

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Processing GIFs: 21%|██████| 64/300 [00:32<02:08, 1.84it/s]

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Processing GIFs: 22%|██████| 65/300 [00:33<01:53, 2.07it/s]

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Processing GIFs: 22%|██████| 66/300 [00:33<01:55, 2.03it/s]

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Processing GIFs: 22%|██████| 67/300 [00:34<01:53, 2.05it/s]

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Processing GIFs: 23%|██████| 68/300 [00:34<01:51, 2.08it/s]

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Processing GIFs: 23%|██████| 69/300 [00:34<01:49, 2.11it/s]

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Processing GIFs: 23%|██████| 70/300 [00:35<01:45, 2.19it/s]

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Processing GIFs: 24%|██████| 71/300 [00:35<01:44, 2.18it/s]

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Processing GIFs: 24%|██████| 72/300 [00:36<01:38, 2.31it/s]

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Processing GIFs: 24%|██████| 73/300 [00:36<01:40, 2.26it/s]

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Processing GIFs: 25%|██████| 74/300 [00:37<01:40, 2.24it/s]

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Processing GIFs: 25%|██████| 75/300 [00:37<01:49, 2.06it/s]

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Processing GIFs: 25%|██████| 76/300 [00:38<01:44, 2.14it/s]

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Processing GIFs: 26%|██████| 77/300 [00:38<01:45, 2.12it/s]

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Processing GIFs: 26%|██████| 78/300 [00:39<01:50, 2.01it/s]

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Processing GIFs: 26%|██████| 79/300 [00:39<01:44, 2.12it/s]

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Processing GIFs: 27%|██████| 80/300 [00:40<01:43, 2.13it/s]

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Processing GIFs: 27%|██████| 81/300 [00:40<01:42, 2.14it/s]

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Processing GIFs: 27%|██████| 82/300 [00:40<01:40, 2.17it/s]

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Processing GIFs: 28%|██████| 83/300 [00:41<01:39, 2.19it/s]

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Processing GIFs: 28%|██████| 84/300 [00:41<01:44, 2.06it/s]

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Processing GIFs: 28%|██████| 85/300 [00:42<01:41, 2.12it/s]

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Processing GIFs: 29%|██████| 86/300 [00:42<01:41, 2.10it/s]

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Processing GIFs: 29%|██████| 87/300 [00:43<01:37, 2.18it/s]

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Processing GIFs: 29%|██████| 88/300 [00:43<01:37, 2.17it/s]

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Processing GIFs: 30%|██████| 89/300 [00:44<01:41, 2.08it/s]

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Processing GIFs: 30%|██████| 90/300 [00:44<01:41, 2.07it/s]

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Processing GIFs: 30%|██████| 91/300 [00:45<01:56, 1.79it/s]

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Processing GIFs: 31%|██████| 92/300 [00:45<01:44, 1.99it/s]

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Processing GIFs: 31%|██████| 93/300 [00:46<01:39, 2.08it/s]

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Processing GIFs: 31%|██████| 94/300 [00:46<01:49, 1.89it/s]

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Processing GIFs: 32%|██████| 95/300 [00:47<01:45, 1.94it/s]

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Processing GIFs: 32%|██████| 96/300 [00:47<01:43, 1.96it/s]

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Processing GIFs: 32%|██████| 97/300 [00:48<01:45, 1.93it/s]

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Processing GIFs: 33%|██████| 98/300 [00:48<01:39, 2.02it/s]

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Processing GIFs: 33%|██████| 99/300 [00:49<01:31, 2.19it/s]

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Processing GIFs: 33%|██████| 100/300 [00:49<01:30, 2.20it/s]

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Processing GIFs: 34%|██████| 101/300 [00:50<01:41, 1.97it/s]

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Processing GIFs: 34%|██████| 102/300 [00:50<01:37, 2.02it/s]

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Processing GIFs: 34%|██████| 103/300 [00:51<01:33, 2.10it/s]

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Processing GIFs: 35%|██████| 104/300 [00:51<01:27, 2.24it/s]

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Processing GIFs: 35%|██████| 105/300 [00:52<01:29, 2.18it/s]

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Processing GIFs: 35%|██████| 106/300 [00:52<01:28, 2.19it/s]

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Processing GIFs: 36%|██████| 107/300 [00:52<01:24, 2.29it/s]

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Processing GIFs: 36%|██████| 108/300 [00:53<01:16, 2.50it/s]

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Processing GIFs: 36%|██████| 109/300 [00:53<01:27, 2.17it/s]

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Processing GIFs: 37%|██████| 110/300 [00:54<01:46, 1.79it/s]

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Processing GIFs: 37%|██████| 111/300 [00:55<01:45, 1.79it/s]

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Processing GIFs: 37%|██████| 112/300 [00:55<01:35, 1.96it/s]

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Processing GIFs: 38%|██████| 113/300 [00:55<01:28, 2.12it/s]

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Processing GIFs: 38%|██████| 114/300 [00:56<01:45, 1.76it/s]

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Processing GIFs: 38%|██████| 115/300 [00:57<01:38, 1.87it/s]

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Processing GIFs: 39%|██████| 116/300 [00:57<01:32, 1.99it/s]

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Processing GIFs: 39%|██████| 117/300 [00:58<01:37, 1.87it/s]

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Processing GIFs: 39%|██████| 118/300 [00:58<01:41, 1.80it/s]

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Processing GIFs: 40%|██████| 119/300 [00:59<01:42, 1.77it/s]

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Processing GIFs: 40%|██████| 120/300 [00:59<01:37, 1.86it/s]

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Processing GIFs: 40%|██████| 121/300 [01:00<01:27, 2.04it/s]

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Processing GIFs: 41%|██████| 122/300 [01:00<01:23, 2.14it/s]

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Processing GIFs: 41%|██████| 123/300 [01:01<01:17, 2.29it/s]

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Processing GIFs: 41%|██████| 124/300 [01:01<01:21, 2.15it/s]

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Processing GIFs: 42%|██████| 125/300 [01:02<01:25, 2.06it/s]

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Processing GIFs: 42%|██████| 126/300 [01:02<01:20, 2.15it/s]

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Processing GIFs: 42%|██████| 127/300 [01:03<01:20, 2.15it/s]

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Processing GIFs: 43%|██████| 128/300 [01:03<01:16, 2.24it/s]

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Processing GIFs: 43%|██████| 129/300 [01:03<01:21, 2.10it/s]

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Processing GIFs: 43%|██████| 130/300 [01:04<01:21, 2.09it/s]

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Processing GIFs: 44%|██████| 131/300 [01:04<01:23, 2.03it/s]

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Processing GIFs: 44%|███████ | 132/300 [01:05<01:27, 1.92it/s]

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Processing GIFs: 44%|███████ | 133/300 [01:06<01:22, 2.03it/s]

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Processing GIFs: 45%|███████ | 134/300 [01:06<01:16, 2.16it/s]

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Processing GIFs: 45%|███████ | 135/300 [01:06<01:22, 2.00it/s]

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Processing GIFs: 45%|███████ | 136/300 [01:07<01:24, 1.95it/s]

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Processing GIFs: 46%|███████ | 137/300 [01:07<01:19, 2.05it/s]

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Processing GIFs: 46%|███████ | 138/300 [01:08<01:16, 2.12it/s]

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Processing GIFs: 46%|███████ | 139/300 [01:08<01:15, 2.13it/s]

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Processing GIFs: 47%|███████ | 140/300 [01:09<01:13, 2.17it/s]

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Processing GIFs: 47%|███████ | 141/300 [01:09<01:15, 2.12it/s]

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Processing GIFs: 47%|███████ | 142/300 [01:10<01:22, 1.91it/s]

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Processing GIFs: 48%|██████| 143/300 [01:10<01:19, 1.96it/s]

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Processing GIFs: 48%|██████| 144/300 [01:11<01:12, 2.16it/s]

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Processing GIFs: 48%|██████| 145/300 [01:11<01:13, 2.11it/s]

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Processing GIFs: 49%|██████| 146/300 [01:12<01:18, 1.97it/s]

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Processing GIFs: 49%|██████| 147/300 [01:12<01:20, 1.90it/s]

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Processing GIFs: 49%|██████| 148/300 [01:13<01:12, 2.10it/s]

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Processing GIFs: 50%|██████| 149/300 [01:13<01:12, 2.09it/s]

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Processing GIFs: 50%|██████| 150/300 [01:14<01:12, 2.08it/s]

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Processing GIFs: 50%|██████| 151/300 [01:14<01:18, 1.91it/s]

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Processing GIFs: 51%|██████| 152/300 [01:15<01:10, 2.11it/s]

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Processing GIFs: 51%|██████| 153/300 [01:15<01:08, 2.14it/s]

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Processing GIFs: 51%|███████ | 154/300 [01:16<01:14, 1.95it/s]

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Processing GIFs: 52%|███████ | 155/300 [01:16<01:14, 1.94it/s]

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Processing GIFs: 52%|███████ | 156/300 [01:17<01:14, 1.94it/s]

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Processing GIFs: 52%|███████ | 157/300 [01:17<01:11, 2.00it/s]

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Processing GIFs: 53%|███████ | 158/300 [01:18<01:11, 1.98it/s]

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Processing GIFs: 53%|███████ | 159/300 [01:18<01:12, 1.95it/s]

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Deleted: gifs_temp/gif_54362.gif

Processing GIFs: 53%|███████ | 160/300 [01:19<01:09, 2.02it/s]

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Processing GIFs: 54%|███████ | 161/300 [01:19<01:08, 2.02it/s]

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Processing GIFs: 54%|███████ | 162/300 [01:20<01:10, 1.97it/s]

Downloaded: gifs_temp/gif_17573.gif

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Processing GIFs: 54%|███████ | 163/300 [01:20<01:03, 2.15it/s]

Downloaded: gifs_temp/gif_46838.gif

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Processing GIFs: 55%|███████ | 164/300 [01:21<01:00, 2.25it/s]

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Processing GIFs: 55%|██████████ | 165/300 [01:21<01:03, 2.13it/s]

Downloaded: gifs_temp/gif_74569.gif

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Processing GIFs: 55%|██████████ | 166/300 [01:22<01:04, 2.09it/s]

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Processing GIFs: 56%|██████████ | 167/300 [01:22<01:12, 1.82it/s]

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Processing GIFs: 56%|██████████ | 168/300 [01:23<01:10, 1.86it/s]

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Processing GIFs: 56%|██████████ | 169/300 [01:23<01:06, 1.97it/s]

Downloaded: gifs_temp/gif_66321.gif

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Processing GIFs: 57%|██████████ | 170/300 [01:24<01:00, 2.15it/s]

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Processing GIFs: 57%|██████████ | 171/300 [01:24<01:00, 2.13it/s]

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Processing GIFs: 57%|██████████ | 172/300 [01:25<00:58, 2.19it/s]

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Processing GIFs: 58%|██████████ | 173/300 [01:25<01:06, 1.91it/s]

Downloaded: gifs_temp/gif_39809.gif

Deleted: gifs_temp/gif_39809.gif

Processing GIFs: 58%|██████████ | 174/300 [01:26<00:58, 2.14it/s]

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Deleted: gifs_temp/gif_42095.gif

Processing GIFs: 58%|██████████ | 175/300 [01:26<00:57, 2.17it/s]

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Processing GIFs: 59%|██████████ | 176/300 [01:27<01:01, 2.03it/s]

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Deleted: gifs_temp/gif_29116.gif

Processing GIFs: 59%|██████████ | 177/300 [01:27<00:58, 2.09it/s]

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Processing GIFs: 59%|██████████ | 178/300 [01:27<00:55, 2.21it/s]

Downloaded: gifs_temp/gif_89677.gif

Deleted: gifs_temp/gif_89677.gif

Processing GIFs: 60%|██████████ | 179/300 [01:28<00:54, 2.23it/s]

Downloaded: gifs_temp/gif_67133.gif

Deleted: gifs_temp/gif_67133.gif

Processing GIFs: 60%|██████████ | 180/300 [01:28<00:56, 2.13it/s]

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Processing GIFs: 60%|██████████ | 181/300 [01:29<00:57, 2.08it/s]

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Processing GIFs: 61%|██████████ | 182/300 [01:29<00:57, 2.04it/s]

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Deleted: gifs_temp/gif_57598.gif

Processing GIFs: 61%|██████████ | 183/300 [01:30<01:04, 1.81it/s]

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Processing GIFs: 61%|██████████ | 184/300 [01:30<00:58, 2.00it/s]

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Processing GIFs: 62%|██████████ | 185/300 [01:31<00:56, 2.05it/s]

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Processing GIFs: 62%|██████████ | 186/300 [01:32<00:59, 1.93it/s]

Downloaded: gifs_temp/gif_11972.gif

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Processing GIFs: 62%|███████ | 187/300 [01:32<00:52, 2.17it/s]

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Processing GIFs: 63%|███████ | 188/300 [01:32<00:54, 2.07it/s]

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Processing GIFs: 63%|███████ | 189/300 [01:33<00:57, 1.94it/s]

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Processing GIFs: 63%|███████ | 190/300 [01:33<00:56, 1.96it/s]

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Processing GIFs: 64%|███████ | 191/300 [01:34<00:56, 1.94it/s]

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Processing GIFs: 64%|███████ | 192/300 [01:34<00:54, 1.98it/s]

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Processing GIFs: 64%|███████ | 193/300 [01:35<00:52, 2.05it/s]

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Processing GIFs: 65%|███████ | 194/300 [01:35<00:50, 2.09it/s]

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Processing GIFs: 65%|███████ | 195/300 [01:36<00:50, 2.09it/s]

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Processing GIFs: 65%|███████ | 196/300 [01:36<00:51, 2.02it/s]

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Processing GIFs: 66%|███████ | 197/300 [01:37<00:49, 2.09it/s]

Downloaded: gifs_temp/gif_81347.gif

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Processing GIFs: 66%|██████████ | 198/300 [01:37<00:45, 2.22it/s]

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Processing GIFs: 66%|██████████ | 199/300 [01:38<00:44, 2.27it/s]

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Processing GIFs: 67%|██████████ | 200/300 [01:38<00:44, 2.24it/s]

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Processing GIFs: 67%|██████████ | 201/300 [01:39<00:44, 2.22it/s]

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Processing GIFs: 67%|██████████ | 202/300 [01:39<00:43, 2.23it/s]

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Processing GIFs: 68%|██████████ | 203/300 [01:39<00:42, 2.28it/s]

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Processing GIFs: 68%|██████████ | 204/300 [01:40<00:40, 2.36it/s]

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Processing GIFs: 68%|██████████ | 205/300 [01:40<00:41, 2.31it/s]

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Processing GIFs: 69%|██████████ | 206/300 [01:41<00:37, 2.48it/s]

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Processing GIFs: 69%|██████████ | 207/300 [01:41<00:38, 2.38it/s]

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Processing GIFs: 69%|██████████ | 208/300 [01:42<00:38, 2.37it/s]

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Processing GIFs: 70%|██████████ | 209/300 [01:42<00:38, 2.34it/s]

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Processing GIFs: 70%|██████████ | 210/300 [01:42<00:38, 2.31it/s]

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Processing GIFs: 70%|██████████ | 211/300 [01:43<00:43, 2.07it/s]

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Processing GIFs: 71%|██████████ | 212/300 [01:43<00:42, 2.05it/s]

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Processing GIFs: 71%|██████████ | 213/300 [01:44<00:40, 2.12it/s]

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Processing GIFs: 71%|██████████ | 214/300 [01:44<00:39, 2.15it/s]

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Processing GIFs: 72%|██████████ | 215/300 [01:45<00:38, 2.21it/s]

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Processing GIFs: 72%|██████████ | 216/300 [01:45<00:38, 2.18it/s]

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Processing GIFs: 72%|██████████ | 217/300 [01:46<00:37, 2.21it/s]

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Processing GIFs: 73%|██████████ | 218/300 [01:46<00:36, 2.22it/s]

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Processing GIFs: 73%|██████████ | 219/300 [01:47<00:36, 2.21it/s]

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Processing GIFs: 73%|██████████ | 220/300 [01:47<00:39, 2.04it/s]

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Processing GIFs: 74%|██████████ | 221/300 [01:48<00:41, 1.91it/s]

Downloaded: gifs_temp/gif_31917.gif

Deleted: gifs_temp/gif_31917.gif

Processing GIFs: 74%|██████████ | 222/300 [01:48<00:37, 2.08it/s]

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Processing GIFs: 74%|██████████ | 223/300 [01:49<00:34, 2.24it/s]

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Processing GIFs: 75%|██████████ | 224/300 [01:49<00:32, 2.31it/s]

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Processing GIFs: 75%|██████████ | 225/300 [01:50<00:36, 2.06it/s]

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Processing GIFs: 75%|██████████ | 226/300 [01:50<00:35, 2.10it/s]

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Processing GIFs: 76%|██████████ | 227/300 [01:51<00:35, 2.05it/s]

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Processing GIFs: 76%|██████████ | 228/300 [01:51<00:34, 2.08it/s]

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Processing GIFs: 76%|██████████ | 229/300 [01:52<00:44, 1.58it/s]

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Processing GIFs: 77%|██████████ | 230/300 [01:53<00:43, 1.63it/s]

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Processing GIFs: 77%|██████████ | 231/300 [01:53<00:36, 1.87it/s]

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Processing GIFs: 77%|██████████ | 232/300 [01:53<00:36, 1.88it/s]

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Processing GIFs: 78%|██████████ | 233/300 [01:54<00:36, 1.85it/s]

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Processing GIFs: 78%|██████████ | 234/300 [01:55<00:36, 1.81it/s]

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Processing GIFs: 78%|██████████ | 235/300 [01:55<00:33, 1.94it/s]

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Processing GIFs: 79%|██████████ | 236/300 [01:56<00:40, 1.59it/s]

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Processing GIFs: 79%|██████████ | 237/300 [01:56<00:37, 1.67it/s]

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Processing GIFs: 79%|██████████ | 238/300 [01:57<00:35, 1.76it/s]

Downloaded: gifs_temp/gif_14444.gif

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Processing GIFs: 80%|██████████ | 239/300 [01:57<00:34, 1.77it/s]

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Processing GIFs: 80%|██████████ | 240/300 [01:58<00:33, 1.80it/s]

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Processing GIFs: 80%|██████████ | 241/300 [01:58<00:31, 1.86it/s]

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Processing GIFs: 81%|██████████ | 242/300 [01:59<00:29, 1.96it/s]

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Processing GIFs: 81%|██████████ | 243/300 [01:59<00:27, 2.09it/s]

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Processing GIFs: 81%|██████████ | 244/300 [02:00<00:26, 2.11it/s]

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Processing GIFs: 82%|██████████ | 245/300 [02:00<00:28, 1.96it/s]

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Processing GIFs: 82%|██████████ | 246/300 [02:01<00:26, 2.04it/s]

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Processing GIFs: 82%|██████████ | 247/300 [02:01<00:26, 1.99it/s]

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Processing GIFs: 83%|██████████ | 248/300 [02:02<00:24, 2.14it/s]

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Processing GIFs: 83%|██████████ | 249/300 [02:03<00:32, 1.55it/s]

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Processing GIFs: 83%|██████████ | 250/300 [02:03<00:31, 1.59it/s]

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Processing GIFs: 84%|██████████ | 251/300 [02:04<00:28, 1.69it/s]

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Processing GIFs: 84%|██████████ | 252/300 [02:04<00:25, 1.86it/s]

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Processing GIFs: 84%|██████████ | 253/300 [02:05<00:25, 1.85it/s]

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Processing GIFs: 85%|██████████ | 254/300 [02:05<00:24, 1.92it/s]

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Processing GIFs: 85%|██████████ | 255/300 [02:06<00:24, 1.86it/s]

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Processing GIFs: 85%|██████████ | 256/300 [02:06<00:22, 1.95it/s]

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Processing GIFs: 86%|██████████ | 257/300 [02:07<00:22, 1.90it/s]

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Processing GIFs: 86%|██████████ | 258/300 [02:08<00:22, 1.83it/s]

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Processing GIFs: 86%|██████████ | 259/300 [02:08<00:22, 1.86it/s]

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Processing GIFs: 87%|██████████ | 260/300 [02:09<00:20, 1.92it/s]

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Processing GIFs: 87%|██████████ | 261/300 [02:09<00:18, 2.09it/s]

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Processing GIFs: 87%|██████████ | 262/300 [02:09<00:18, 2.02it/s]

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Processing GIFs: 88%|██████████ | 263/300 [02:10<00:18, 1.98it/s]

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Processing GIFs: 88%|██████████ | 264/300 [02:10<00:17, 2.11it/s]

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Processing GIFs: 88%|██████████ | 265/300 [02:11<00:16, 2.16it/s]

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Processing GIFs: 89%|██████████ | 266/300 [02:11<00:14, 2.27it/s]

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Processing GIFs: 89%|██████████ | 267/300 [02:12<00:18, 1.80it/s]

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Processing GIFs: 89%|██████████ | 268/300 [02:13<00:17, 1.79it/s]

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Processing GIFs: 90%|██████████ | 269/300 [02:13<00:17, 1.73it/s]

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Deleted: gifs_temp/gif_39437.gif

Processing GIFs: 90%|██████████ | 270/300 [02:14<00:15, 1.91it/s]

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Deleted: gifs_temp/gif_48688.gif

Processing GIFs: 90%|██████████ | 271/300 [02:14<00:14, 1.98it/s]

Downloaded: gifs_temp/gif_33051.gif

Deleted: gifs_temp/gif_33051.gif

Processing GIFs: 91%|██████████ | 272/300 [02:14<00:13, 2.10it/s]

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Processing GIFs: 91%|██████████ | 273/300 [02:15<00:13, 2.00it/s]

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Processing GIFs: 91%|██████████ | 274/300 [02:15<00:12, 2.09it/s]

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Processing GIFs: 92%|██████████ | 275/300 [02:16<00:12, 2.00it/s]

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Processing GIFs: 92%|██████████ | 276/300 [02:17<00:12, 1.98it/s]

Downloaded: gifs_temp/gif_31684.gif

Deleted: gifs_temp/gif_31684.gif

Processing GIFs: 92%|██████████ | 277/300 [02:17<00:11, 2.04it/s]

Downloaded: gifs_temp/gif_49105.gif

Deleted: gifs_temp/gif_49105.gif

Processing GIFs: 93%|██████████ | 278/300 [02:17<00:10, 2.17it/s]

Downloaded: gifs_temp/gif_8006.gif

Deleted: gifs_temp/gif_8006.gif

Processing GIFs: 93%|██████████ | 279/300 [02:18<00:09, 2.17it/s]

Downloaded: gifs_temp/gif_739.gif

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Processing GIFs: 93%|██████████ | 280/300 [02:18<00:09, 2.13it/s]

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Deleted: gifs_temp/gif_17255.gif

Processing GIFs: 94%|██████████ | 281/300 [02:19<00:08, 2.21it/s]

Downloaded: gifs_temp/gif_10974.gif

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Processing GIFs: 94%|██████████ | 282/300 [02:19<00:08, 2.19it/s]

Downloaded: gifs_temp/gif_45307.gif

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Processing GIFs: 94%|██████████ | 283/300 [02:20<00:07, 2.18it/s]

Downloaded: gifs_temp/gif_33824.gif

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Processing GIFs: 95%|██████████ | 284/300 [02:20<00:07, 2.21it/s]

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Processing GIFs: 95%|██████████ | 285/300 [02:21<00:06, 2.18it/s]

Downloaded: gifs_temp/gif_69729.gif

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Processing GIFs: 95%|██████████| 286/300 [02:21<00:06, 2.14it/s]

Downloaded: gifs_temp/gif_31952.gif

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Processing GIFs: 96%|██████████| 287/300 [02:22<00:06, 2.13it/s]

Downloaded: gifs_temp/gif_21668.gif

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Processing GIFs: 96%|██████████| 288/300 [02:22<00:05, 2.16it/s]

Downloaded: gifs_temp/gif_74877.gif

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Processing GIFs: 96%|██████████| 289/300 [02:22<00:05, 2.19it/s]

Downloaded: gifs_temp/gif_86635.gif

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Processing GIFs: 97%|██████████| 290/300 [02:23<00:04, 2.10it/s]

Downloaded: gifs_temp/gif_76076.gif

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Processing GIFs: 97%|██████████| 291/300 [02:23<00:04, 2.02it/s]

Downloaded: gifs_temp/gif_18187.gif

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Processing GIFs: 97%|██████████| 292/300 [02:24<00:04, 1.92it/s]

Downloaded: gifs_temp/gif_11767.gif

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Processing GIFs: 98%|██████████| 293/300 [02:24<00:03, 2.06it/s]

Downloaded: gifs_temp/gif_30556.gif

Deleted: gifs_temp/gif_30556.gif

Processing GIFs: 98%|██████████| 294/300 [02:25<00:03, 2.00it/s]

Downloaded: gifs_temp/gif_46525.gif

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Processing GIFs: 98%|██████████| 295/300 [02:26<00:02, 1.99it/s]

Downloaded: gifs_temp/gif_76129.gif

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Processing GIFs: 99%|██████████| 296/300 [02:26<00:01, 2.14it/s]

Downloaded: gifs_temp/gif_63442.gif

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Processing GIFs: 99%|██████████| 297/300 [02:26<00:01, 2.20it/s]

Downloaded: gifs_temp/gif_63730.gif

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Processing GIFs: 99%|██████████| 298/300 [02:27<00:00, 2.27it/s]

Downloaded: gifs_temp/gif_42786.gif

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Processing GIFs: 100%|██████████| 299/300 [02:27<00:00, 2.25it/s]

Downloaded: gifs_temp/gif_38281.gif

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Processing GIFs: 100%|██████████| 300/300 [02:28<00:00, 2.02it/s]

Downloaded: gifs_temp/gif_13864.gif

Deleted: gifs_temp/gif_13864.gif

```
import torch
```

```
import numpy as np
```

```
# Assume target_frames is the list of GIFs, where each GIF is a list  
of frames (each frame is a numpy array)
```

```
processed_gifs = []
```

```
for gif in target_frames:
```

```
    # Convert list of frames (numpy arrays) into a single numpy array
```

```
    frames_array = np.array(gif) # Convert to a single numpy array
```

```
    # Now convert the numpy array to a PyTorch tensor
```

```
    frames_tensor = torch.tensor(frames_array) # Convert to a PyTorch  
tensor
```

```
    # Append the processed tensor to the list
```

```
    processed_gifs.append(frames_tensor)
```

```
# Now processed_gifs is a list of tensors, where each tensor  
represents a GIF
```

Saving the data

```
import torch
```

```
# Move all tensors in processed_gifs to CPU
```

```
processed_gifs_cpu = [gif.cpu() for gif in processed_gifs]
```

```

# Create a dictionary to hold both lists
data = {
    'processed_gifs': processed_gifs_cpu,
    'target_texts': target_texts
}

# Save the dictionary to a file
torch.save(data, 'testdata.pth')

print("Data has been saved successfully as 'data.pth'.")

```

Data has been saved successfully as 'data.pth'.

Loading data when needing

```

import torch

# Load the saved data from the local file
data = torch.load('testdata.pth', map_location=torch.device('cpu')) #
Change 'cpu' to 'cuda' if loading on GPU

processed_gifs = data['processed_gifs']
target_texts = data['target_texts']

print("Data has been loaded successfully from 'data.pth'.")

```

<ipython-input-2-afe2d304acc8>:4: FutureWarning: You are using
`torch.load` with `weights_only=False` (the current default value),
which uses the default pickle module implicitly. It is possible to
construct malicious pickle data which will execute arbitrary code
during unpickling (See
<https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models>
for more details). In a future release, the default value for
`weights_only` will be flipped to `True`. This limits the functions
that could be executed during unpickling. Arbitrary objects will no
longer be allowed to be loaded via this mode unless they are
explicitly allowlisted by the user via
`torch.serialization.add_safe_globals`. We recommend you start setting
`weights_only=True` for any use case where you don't have full control
of the loaded file. Please open an issue on GitHub for any issues
related to this experimental feature.

```

    data = torch.load('testdata.pth', map_location=torch.device('cpu'))
# Change 'cpu' to 'cuda' if loading on GPU

```

Data has been loaded successfully from 'data.pth'.

```

import torch
from transformers import BlipProcessor, BlipForConditionalGeneration,
T5Tokenizer, T5ForConditionalGeneration

```

```

# Define device
device = 'cuda' if torch.cuda.is_available() else 'cpu'

# Initialize processors and tokenizers
blip_processor = BlipProcessor.from_pretrained('Salesforce/blip-image-captioning-base') # Use the same processor used during training
t5_tokenizer = T5Tokenizer.from_pretrained('t5-base') # Use the same tokenizer used during training

# Initialize model architectures
blip_model =
BlipForConditionalGeneration.from_pretrained('Salesforce/blip-image-captioning-base') # Ensure architecture matches
t5_model = T5ForConditionalGeneration.from_pretrained('t5-base') #
Ensure architecture matches

# Load your trained state_dicts
blip_model.load_state_dict(torch.load('/content/drive/MyDrive/Models/7
epochs 1500 GIFs/blip_model.pth', map_location=device))
t5_model.load_state_dict(torch.load('/content/drive/MyDrive/Models/7
epochs 1500 GIFs/t5_model.pth', map_location=device))

# Move models to device
blip_model.to(device)
t5_model.to(device)

# Set models to evaluation mode
blip_model.eval()
t5_model.eval()

print("Trained models loaded successfully.")

/usr/local/lib/python3.10/dist-packages/huggingface_hub/utils/
_token.py:89: UserWarning:
The secret `HF_TOKEN` does not exist in your Colab secrets.
To authenticate with the Hugging Face Hub, create a token in your
settings tab (https://huggingface.co/settings/tokens), set it as
secret in your Google Colab and restart your session.
You will be able to reuse this secret in all of your notebooks.
Please note that authentication is recommended but still optional to
access public models or datasets.
  warnings.warn(

{"model_id": "lcca8ed00b474e4eb1fde48be11fe0e6", "version_major": 2, "vers
ion_minor": 0}

{"model_id": "16d2092fc98a40f39cb52c3025c9080c", "version_major": 2, "vers
ion_minor": 0}

{"model_id": "79707f34f3e44e03a46d32a2a3351bea", "version_major": 2, "vers
ion_minor": 0}

```

```
{"model_id": "6ab240a78d254f639ec2f402c51200d1", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "36292890d63748ba96f9be03116a9ff9", "version_major": 2, "version_minor": 0}
```

```
/usr/local/lib/python3.10/dist-packages/transformers/
tokenization_utils_base.py:1601: FutureWarning:
`clean_up_tokenization_spaces` was not set. It will be set to `True`
by default. This behavior will be deprecated in transformers v4.45, and
will be then set to `False` by default. For more details check this
issue: https://github.com/huggingface/transformers/issues/31884
  warnings.warn(
```

```
{"model_id": "7f0cff6cdf604df6acb7c9831b3c2195", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "e1fea57e07d4491cbfd7ffa93d4cfa4f", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "a2bedb4dc0974eca84957e8e0e1b1d45", "version_major": 2, "version_minor": 0}
```

You are using the default legacy behaviour of the `<class 'transformers.models.t5.tokenization_t5.T5Tokenizer'>`. This is expected, and simply means that the ``legacy`` (previous) behavior will be used so nothing changes for you. If you want to use the new behaviour, set ``legacy=False``. This should only be set if you understand what it means, and thoroughly read the reason why this was added as explained in <https://github.com/huggingface/transformers/pull/24565>

```
{"model_id": "39a855d225664b7d9dc9b1482e470d32", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "58e5d9cd31f44ef491db612b93b893b4", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "a540c65c048b4f48b6e82835a5024fc4", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "a4f6e6f55a604833a8b2306e980a7955", "version_major": 2, "version_minor": 0}
```

```
<ipython-input-3-b78857e42f4b>:16: FutureWarning: You are using
`torch.load` with `weights_only=False` (the current default value),
which uses the default pickle module implicitly. It is possible to
construct malicious pickle data which will execute arbitrary code
during unpickling (See
https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models
for more details). In a future release, the default value for
`weights_only` will be flipped to `True`. This limits the functions
```

that could be executed during unpickling. Arbitrary objects will no longer be allowed to be loaded via this mode unless they are explicitly allowlisted by the user via ``torch.serialization.add_safe_globals``. We recommend you start setting ``weights_only=True`` for any use case where you don't have full control of the loaded file. Please open an issue on GitHub for any issues related to this experimental feature.

```
blip_model.load_state_dict(torch.load('/content/drive/MyDrive/Models/7
epochs 1500 GIFs/blip_model.pth', map_location=device))
```

```
<ipython-input-3-b78857e42f4b>:17: FutureWarning: You are using
`torch.load` with `weights_only=False` (the current default value),
which uses the default pickle module implicitly. It is possible to
construct malicious pickle data which will execute arbitrary code
during unpickling (See
```

```
https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-
models for more details). In a future release, the default value for
`weights_only` will be flipped to `True`. This limits the functions
that could be executed during unpickling. Arbitrary objects will no
longer be allowed to be loaded via this mode unless they are
explicitly allowlisted by the user via
```

```
`torch.serialization.add_safe_globals`. We recommend you start setting
`weights_only=True` for any use case where you don't have full control
of the loaded file. Please open an issue on GitHub for any issues
related to this experimental feature.
```

```
    t5_model.load_state_dict(torch.load('/content/drive/MyDrive/Models/7
epochs 1500 GIFs/t5_model.pth', map_location=device))
```

Trained models loaded successfully.

```
import torch
import numpy as np
from torch.utils.data import Dataset
```

```
class GifAggregationDataset(Dataset):
```

```
    def __init__(self, frames_list, targets, tokenizer,
max_target_length=150):
```

```
        """
        frames_list: A list of lists containing frames (as tensors or
numpy arrays) for each GIF.
```

```
        targets: The ground truth captions for each GIF.
```

```
        tokenizer: Tokenizer for T5 to encode the target captions.
```

```
        max_target_length: Maximum length for the target text
sequences.
        """
```

```
        self.frames_list = frames_list # List of frame sequences
(e.g., list of tensors for each GIF)
```

```
        self.targets = targets # Ground truth captions for each GIF
```

```
        self.tokenizer = tokenizer
```

```
        self.max_target_length = max_target_length
```



```

def __len__(self):
    return len(self.frames_list)

def __getitem__(self, idx):
    # Get frames and target for the given index
    frames = self.frames_list[idx] # List or tensor of frames for
a single GIF
    target_text = self.targets[idx]

    # Ensure frames are in the correct shape (num_frames, height,
width, channels)
    if isinstance(frames, list):
        # Convert list of numpy arrays to a single numpy array, if
necessary
        frames = np.array(frames)

    # If frames are numpy arrays, convert to torch tensor and make
sure dimensions are correct
    if isinstance(frames, np.ndarray):
        frames = torch.tensor(frames, dtype=torch.float32) #
Convert to float32 tensor for PyTorch

    # Reshape or permute frames to ensure the shape is
(num_frames, height, width, channels)
    if frames.ndim == 4 and frames.shape[-1] == 3:
        # Shape is (num_frames, height, width, channels), which is
correct for PIL conversion
        pass
    elif frames.ndim == 4 and frames.shape[1] == 3:
        # If frames have shape (num_frames, channels, height,
width), change to (num_frames, height, width, channels)
        frames = frames.permute(0, 2, 3, 1) # (N, C, H, W) -> (N,
H, W, C)

    # Tokenize the target caption (ground-truth description)
    target_encoding = self.tokenizer(
        target_text,
        padding='max_length',
        truncation=True,
        max_length=self.max_target_length,
        return_tensors="pt"
    )

    # Replace padding token ID's of the labels by -100 to ignore
them in the loss
    labels = target_encoding.input_ids.squeeze()
    labels[labels == self.tokenizer.pad_token_id] = -100

    return {

```

```

        'frames': frames, # Provide frames directly in tensor
        format (num_frames, height, width, channels)
        'labels': labels, # Provide tokenized ground truth
        captions for T5
        'reference_description': target_text
    }

# Define the Test Dataset
test_dataset = GifAggregationDataset(
    frames_list=processed_gifs, # List of tensors representing
    frames for each test GIF
    targets=target_texts, # Ground truth aggregated captions
    for test GIFs
    tokenizer=t5_tokenizer, # Tokenizer for processing
    target texts
    max_target_length=150 # Max length for target
    captions
)

# Create the Test DataLoader
test_dataloader = DataLoader(
    test_dataset,
    batch_size=16, # Adjust based on GPU memory; 16 is
    consistent with your train/val
    shuffle=False, # No need to shuffle test data
    num_workers=0, # Set >0 if using multiple CPU cores for
    faster data loading
    pin_memory=True # Speeds up data transfer to GPU
)

import torch
from tqdm import tqdm
from rouge_score import rouge_scorer
from nltk.translate.bleu_score import corpus_bleu
from nltk.translate.meteor_score import meteor_score
import bert_score
from PIL import Image

def evaluate_model(blip_model, t5_model, blip_processor, tokenizer,
dataloader, device='cuda' if torch.cuda.is_available() else 'cpu'):
    blip_model.eval() # Set BLIP to evaluation mode
    t5_model.eval() # Set T5 to evaluation mode

    # Metrics containers
    all_references = []
    all_candidates = []
    rouge1_scores = []
    rouge2_scores = []
    rougeL_scores = []
    # meteor_scores_list = []

```

```

# ROUGE scorer initialization
scorer = rouge_scorer.RougeScorer(['rouge1', 'rouge2', 'rougeL'],
use_stemmer=True)

# BERTScore
bert_score_fn = bert_score.score

with torch.no_grad():
    for batch in tqdm(data_loader, desc="Evaluating"):
        # Step 1: Prepare frames for BLIP
        frames = batch['frames'] # Assuming shape [batch_size,
num_frames, C, H, W] or [batch_size, num_frames, H, W, C]
        reference_descriptions = batch['reference_description'] #
List of reference captions

        batch_size, num_frames = frames.shape[0], frames.shape[1]

        frame_captions = []

        for i in range(batch_size):
            single_captions = []
            for j in range(num_frames):
                frame = frames[i, j] # Shape depends on data
format

                # Determine frame shape and permute if necessary
                if frame.ndim == 3:
                    # Possible shapes:
                    # [C, H, W] or [H, W, C]
                    if frame.shape[0] == 3:
                        # [C, H, W] -> [H, W, C]
                        frame = frame.permute(1, 2, 0)
                    # Else assume [H, W, C], no change needed
                else:
                    raise ValueError(f"Unexpected frame shape:
{frame.shape}")

                # Convert to CPU and numpy
                frame_np = frame.cpu().numpy().astype('uint8') #
Ensure dtype is uint8

                # Convert to PIL Image
                try:
                    img = Image.fromarray(frame_np).convert('RGB')
                except Exception as e:
                    print(f"Error converting frame to image: {e}")
                    continue # Skip this frame

                # Generate caption using BLIP

```

```

        inputs = blip_processor(img,
return_tensors="pt").to(device)
        outputs = blip_model.generate(**inputs,
max_length=50) # Limit caption length
        caption = blip_processor.decode(outputs[0],
skip_special_tokens=True)
        single_captions.append(caption)

        # Concatenate captions for the current example
        concatenated_caption = " ".join(single_captions)
        frame_captions.append(concatenated_caption)

    # Step 2: Tokenize the concatenated captions as a batch
    max_length = 128 # Adjust based on GPU capacity and
desired sequence length
    t5_inputs = tokenizer(
        frame_captions, # List of concatenated captions, one
per example in the batch
        max_length=max_length,
        padding='max_length',
        truncation=True,
        return_tensors="pt"
    ).to(device)

    # Step 3: Generate predictions using T5
    outputs = t5_model.generate(
        input_ids=t5_inputs.input_ids,
        attention_mask=t5_inputs.attention_mask,
        max_length=150,
        num_beams=4,
        early_stopping=True
    )

    # Step 4: Decode predictions
    predictions = tokenizer.batch_decode(outputs,
skip_special_tokens=True)

    # Step 5: Evaluate the predictions
    for ref, pred in zip(reference_descriptions, predictions):
        ref_tokens = ref.split()
        pred_tokens = pred.split()

        # Append references and predictions for BLEU
        all_references.append([ref_tokens])
        all_candidates.append(pred_tokens)

    # ROUGE scores calculation
    scores = scorer.score(ref, pred)
    rouge1_scores.append(scores['rouge1'].fmeasure)
    rouge2_scores.append(scores['rouge2'].fmeasure)

```

```

        rougeL_scores.append(scores['rougeL'].fmeasure)

    # METEOR score calculation
    # meteor = meteor_score([ref_tokens], pred_tokens)
    # meteor_scores_list.append(meteor)

    # Calculate BLEU score
    bleu = corpus_bleu(all_references, all_candidates)

    # Calculate average ROUGE scores
    avg_rouge1 = sum(rouge1_scores) / len(rouge1_scores) if
rouge1_scores else 0
    avg_rouge2 = sum(rouge2_scores) / len(rouge2_scores) if
rouge2_scores else 0
    avg_rougeL = sum(rougeL_scores) / len(rougeL_scores) if
rougeL_scores else 0

    # Calculate average METEOR score
    # avg_meteor = sum(meteor_scores_list) / len(meteor_scores_list)
    if meteor_scores_list else 0

    # Calculate BERT Score
    P, R, F1 = bert_score_fn(
        [' '.join(cand) for cand in all_candidates],
        [' '.join(ref[0]) for ref in all_references],
        lang='en',
        verbose=True)
    avg_bert_f1 = F1.mean().item()

    # Compile metrics
    metrics = {
        'BLEU': bleu,
        'ROUGE-1': avg_rouge1,
        'ROUGE-2': avg_rouge2,
        'ROUGE-L': avg_rougeL,
        # 'METEOR': avg_meteor,
        'BERT_F1': avg_bert_f1
    }

    return metrics

# After training each epoch, evaluate the model on the validation set
metrics = evaluate_model(blip_model, t5_model, blip_processor,
t5_tokenizer, test_dataloader, device)
print(f"Test Metrics Model V1: {metrics}")

Evaluating: 100%|██████████| 19/19 [05:35<00:00, 17.64s/it]

{"model_id": "2124da18db994d15bef3deaa5c4feaf7", "version_major": 2, "version_minor": 0}

```

```
{"model_id": "6eedb33aca474220b7bc82800f3a3ca4", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "fa13dbf6a4ee4ed0a26fd748f417ea58", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "93d351ddb754421785224b69005a5e56", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "bf5bcb2ac65f4dcba23da1b02c1298b0", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "940a283e47ad4c4c8d4540b294553421", "version_major": 2, "version_minor": 0}
```

Some weights of RobertaModel were not initialized from the model checkpoint at roberta-large and are newly initialized:

['roberta.pooler.dense.bias', 'roberta.pooler.dense.weight']

You should probably TRAIN this model on a down-stream task to be able to use it for predictions and inference.

calculating scores...

computing bert embedding.

```
{"model_id": "67faee434a7348bfa29ced3324853d16", "version_major": 2, "version_minor": 0}
```

computing greedy matching.

```
{"model_id": "fa3cedafa6194ceaa18e99e11c8dc779", "version_major": 2, "version_minor": 0}
```

done in 2.36 seconds, 126.96 sentences/sec

Test Metrics Model V1: {'BLEU': 0.06812399819740517, 'ROUGE-1': 0.36283740952837173, 'ROUGE-2': 0.1208941130679991, 'ROUGE-L': 0.32716171295477103, 'BERT_F1': 0.9016732573509216}

After training each epoch, evaluate the model on the validation set

metrics = evaluate_model(blip_model, t5_model, blip_processor, t5_tokenizer, test_dataloader, device)

print(f"Test Metrics Model V2: {metrics}")

Evaluating: 100%|██████████| 19/19 [05:37<00:00, 17.74s/it]

Some weights of RobertaModel were not initialized from the model checkpoint at roberta-large and are newly initialized:

['roberta.pooler.dense.bias', 'roberta.pooler.dense.weight']

You should probably TRAIN this model on a down-stream task to be able to use it for predictions and inference.

calculating scores...

computing bert embedding.

```
{"model_id": "6e5082b791d345f49446b2216b353508", "version_major": 2, "version_minor": 0}
```

computing greedy matching.

```
{"model_id": "2e37e58291cc4bf0a4c3565c56ec5b50", "version_major": 2, "version_minor": 0}
```

done in 1.67 seconds, 179.13 sentences/sec

```
Test Metrics Model V2: {'BLEU': 0.06812399819740517, 'ROUGE-1': 0.36283740952837173, 'ROUGE-2': 0.1208941130679991, 'ROUGE-L': 0.32716171295477103, 'BERT_F1': 0.9016732573509216}
```

After training each epoch, evaluate the model on the validation set

```
metrics = evaluate_model(blip_model, t5_model, blip_processor, t5_tokenizer, test_dataloader, device)
print(f"Test Metrics Model V3: {metrics}")
```

Evaluating: 100%|██████████| 19/19 [05:42<00:00, 18.02s/it]

Some weights of RobertaModel were not initialized from the model checkpoint at roberta-large and are newly initialized:

```
['roberta.pooler.dense.bias', 'roberta.pooler.dense.weight']
```

You should probably TRAIN this model on a down-stream task to be able to use it for predictions and inference.

calculating scores...

computing bert embedding.

```
{"model_id": "23f23193bc484acb9539b736b784ed5a", "version_major": 2, "version_minor": 0}
```

computing greedy matching.

```
{"model_id": "95724340d2d44e70b41a8290851d2f83", "version_major": 2, "version_minor": 0}
```

done in 1.51 seconds, 198.45 sentences/sec

```
Test Metrics Model V3: {'BLEU': 0.06573281519797997, 'ROUGE-1': 0.3650295021009056, 'ROUGE-2': 0.12514736381462965, 'ROUGE-L': 0.33186308303216555, 'BERT_F1': 0.9034396409988403}
```