```
import torch
from diffusers import StableDiffusionInpaintPipeline
from PIL import Image
import requests
import numpy as np
```

```
The cache for model files in Transformers v4.22.0 has been updated.
Migrating your old cache. This is a one-time only operation. You can
interrupt this and resume the migration later on by calling
`transformers.utils.move_cache()`.
```


```
{"model_id":"81d8b2dd36df40b3a7f1987ea8e8445e","version_major":2,"vers
ion_minor":0}
```


```
# Load the pre-trained inpainting model
device = "cuda" if torch.cuda.is_available() else "cpu"
pipe = StableDiffusionInpaintPipeline.from_pretrained(
    "runwayml/stable-diffusion-inpainting",
    torch_dtype=torch.float16 if device == "cuda" else torch.float32
).to(device)
```

```
/usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/
_auth.py:94: 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":"a37dabf54ed841b99caea03dbae57f62","version_major":2,"vers
ion_minor":0}

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```

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{"model_id":"1de65ea08d714ba380196447e615f477","version_major":2,"version_minor":0}

```
An error occurred while trying to fetch
/root/.cache/huggingface/hub/models--runwayml--stable-diffusion-
inpainting/snapshots/8a4288a76071f7280aedbdb3253bdb9e9d5d84bb/vae:
Error no file named diffusion_pytorch_model.safetensors found in
directory /root/.cache/huggingface/hub/models--runwayml--stable-
diffusion-inpainting/snapshots/
8a4288a76071f7280aedbdb3253bdb9e9d5d84bb/vae.
Defaulting to unsafe serialization. Pass `allow_pickle=False` to raise
an error instead.
An error occurred while trying to fetch
/root/.cache/huggingface/hub/models--runwayml--stable-diffusion-
inpainting/snapshots/8a4288a76071f7280aedbdb3253bdb9e9d5d84bb/unet:
Error no file named diffusion_pytorch_model.safetensors found in
directory /root/.cache/huggingface/hub/models--runwayml--stable-
diffusion-inpainting/snapshots/
8a4288a76071f7280aedbdb3253bdb9e9d5d84bb/unet.
Defaulting to unsafe serialization. Pass `allow_pickle=False` to raise
an error instead.
```

```python
# Load input image and mask
def load_image(path):
    # Use PIL's Image.open directly for local files
```

```
    return Image.open(path).convert("RGB")

image_url = "/content/Generative_fill2.jpg"  # Provide your own image
mask_url = "/content/car.jpg"  # Provide a binary mask (white = keep,
black = fill)

image = load_image(image_url)
mask = load_image(mask_url)

# Run the inpainting model
output = pipe(prompt="Fill the missing part realistically",
image=image, mask_image=mask).images[0]

# Save and display the result
output.save("output_filled.png")
output.show()
```

{"model_id":"3102c07897d042b690093ce2f505e7fc","version_major":2,"vers
ion_minor":0}