```
! git clone https://github.com/metalbubble/moments_models.git
```

```
⟶    Cloning into 'moments_models'...
      remote: Enumerating objects: 37, done.
      remote: Counting objects: 100% (37/37), done.
      remote: Compressing objects: 100% (35/35), done.
      remote: Total 110 (delta 18), reused 6 (delta 2), pack-reused 73
      Receiving objects: 100% (110/110), 52.31 KiB | 7.47 MiB/s, done.
      Resolving deltas: 100% (51/51), done.
```

```
cd moments_models
```

```
⟶    /content/moments_models
```

```
! python test_model.py
```

```
⟶    --2020-05-10 21:16:13--  http://moments.csail.mit.edu/moments_models/moments_RGB_resnet5
      Resolving moments.csail.mit.edu (moments.csail.mit.edu)... 128.30.100.222
      Connecting to moments.csail.mit.edu (moments.csail.mit.edu)|128.30.100.222|:80... connec
      HTTP request sent, awaiting response... 200 OK
      Length: 193898685 (185M) [application/x-tar]
      Saving to: 'moments_RGB_resnet50_imagenetpretrained.pth.tar'

      moments_RGB_resnet5 100%[===================>] 184.92M  59.3MB/s    in 3.1s

      2020-05-10 21:16:16 (59.3 MB/s) - 'moments_RGB_resnet50_imagenetpretrained.pth.tar' save

      test_model.py:74: UserWarning: volatile was removed and now has no effect. Use `with tor
        input_img = V(tf(img).unsqueeze(0), volatile=True)
      http://places2.csail.mit.edu/imgs/demo/IMG_5970.JPG
      --Top Actions:
      0.401 -> dining
      0.066 -> eating
      0.054 -> chewing
      0.039 -> serving
      0.036 -> throwing
```

```
! python test_model.py --arch resnet50
```

```
⟶    test_model.py:74: UserWarning: volatile was removed and now has no effect. Use `with tor
        input_img = V(tf(img).unsqueeze(0), volatile=True)
      http://places2.csail.mit.edu/imgs/demo/IMG_5970.JPG
      --Top Actions:
      0.401 -> dining
      0.066 -> eating
      0.054 -> chewing
      0.039 -> serving
      0.036 -> throwing
```

```
! python test_model.py --arch resnet3d50
```

```
test_model.py:74: UserWarning: volatile was removed and now has no effect. Use `with tor
    input_img = V(tf(img).unsqueeze(0), volatile=True)
http://places2.csail.mit.edu/imgs/demo/IMG_5970.JPG
--Top Actions:
0.401 -> dining
0.066 -> eating
0.054 -> chewing
0.039 -> serving
0.036 -> throwing
```

▾ RUN ON TEST VIDEOS

ARCH RESNET50

```
! python test_video.py --video_file '../0600_3.mp4' --arch resnet50
```

```
Extracting frames using ffmpeg...
RESULT ON ../0600_3.mp4
0.161 -> inflating
0.096 -> assembling
0.080 -> sanding
0.077 -> constructing
0.052 -> sawing
```

```
! python test_video.py --video_file '../0700_3.mp4' --arch resnet50
```

```
Extracting frames using ffmpeg...
RESULT ON ../0700_3.mp4
0.114 -> inflating
0.087 -> juggling
0.062 -> dancing
0.062 -> skipping
0.050 -> stomping
```

```
! python test_video.py --video_file '../0800_3.mp4' --arch resnet50
```

```
Extracting frames using ffmpeg...
RESULT ON ../0800_3.mp4
0.146 -> inflating
0.136 -> juggling
0.086 -> adult+male+speaking
0.080 -> preaching
0.050 -> discussing
```

```
! python test_video.py --video_file '../0900_3.mp4' --arch resnet50
```

```
      Extracting frames using ffmpeg...
      RESULT ON ../0900_3.mp4
      0.181 -> howling
```

```
! python test_video.py --video_file '../1000_1.mp4' --arch resnet50
```

```
⌐→    Extracting frames using ffmpeg...
      RESULT ON ../1000_1.mp4
      0.217 -> juggling
      0.108 -> vacuuming
      0.069 -> howling
      0.041 -> preaching
      0.035 -> discussing
```

```
! python test_video.py --video_file '../1000_2.mp4' --arch resnet50
```

```
⌐→    Extracting frames using ffmpeg...
      RESULT ON ../1000_2.mp4
      0.119 -> vacuuming
      0.097 -> howling
      0.054 -> juggling
      0.052 -> preaching
      0.048 -> barking
```

```
! python test_video.py --video_file '../1000_3.mp4' --arch resnet50
```

```
⌐→    Extracting frames using ffmpeg...
      RESULT ON ../1000_3.mp4
      0.132 -> howling
      0.083 -> discussing
      0.067 -> kneeling
      0.066 -> preaching
      0.056 -> adult+male+speaking
```

```
! python test_video.py --video_file '../1000_4.mp4' --arch resnet50
```

```
⌐→    Extracting frames using ffmpeg...
      RESULT ON ../1000_4.mp4
      0.130 -> juggling
      0.072 -> howling
      0.065 -> discussing
      0.062 -> adult+male+speaking
      0.059 -> vacuuming
```

```
! python test_video.py --video_file '../1100_1.mp4' --arch resnet50
```

```
⌐→
```

```
! python test_video.py --video_file '../1200_1.mp4' --arch resnet50
```

```
Extracting frames using ffmpeg...
RESULT ON ../1200_1.mp4
0.532 -> juggling
0.257 -> preaching
0.030 -> vacuuming
0.015 -> inflating
0.009 -> adult+male+singing
```

```
! python test_video.py --video_file '../1300_1.mp4' --arch resnet50
```

```
Extracting frames using ffmpeg...
RESULT ON ../1300_1.mp4
0.215 -> sanding
0.168 -> assembling
0.134 -> constructing
0.066 -> hammering
0.062 -> inflating
```

```
! python test_video.py --video_file '../1400_1.mp4' --arch resnet50
```

```
Extracting frames using ffmpeg...
RESULT ON ../1400_1.mp4
0.362 -> howling
0.069 -> barking
0.045 -> flipping
0.041 -> stretching
0.028 -> bouncing
```

⯯ RUN ON TEST VIDEOS

ARCH RESNET3D50

```
! python test_video.py --video_file '../0600_3.mp4' --arch resnet3d50
```

```
Extracting frames using ffmpeg...
RESULT ON ../0600_3.mp4
0.417 -> assembling
0.327 -> building
0.097 -> constructing
0.012 -> repairing
0.011 -> raising
```

```
! python test_video.py --video_file '../0700_3.mp4' --arch resnet3d50
```

⯈

```
    Extracting frames using ffmpeg...
    RESULT ON ../0700_3.mp4
    0.104 -> building
    0.074 -> assembling
    0.070 -> constructing
```

```
! python test_video.py --video_file '../0800_3.mp4' --arch resnet3d50
```

```
Extracting frames using ffmpeg...
    RESULT ON ../0800_3.mp4
    0.158 -> shaving
    0.088 -> preaching
    0.049 -> inflating
    0.042 -> unpacking
    0.040 -> packing
```

```
! python test_video.py --video_file '../0900_3.mp4' --arch resnet3d50
```

```
Extracting frames using ffmpeg...
    RESULT ON ../0900_3.mp4
    0.258 -> inflating
    0.118 -> unpacking
    0.102 -> folding
    0.045 -> assembling
    0.043 -> packing
```

```
! python test_video.py --video_file '../1000_1.mp4' --arch resnet3d50
```

```
Extracting frames using ffmpeg...
    RESULT ON ../1000_1.mp4
    0.121 -> vacuuming
    0.083 -> taping
    0.068 -> folding
    0.046 -> shaving
    0.042 -> wrapping
```

```
! python test_video.py --video_file '../1000_2.mp4' --arch resnet3d50
```

```
Extracting frames using ffmpeg...
    RESULT ON ../1000_2.mp4
    0.213 -> preaching
    0.039 -> taping
    0.036 -> stretching
    0.032 -> folding
    0.032 -> vacuuming
```

```
! python test_video.py --video_file '../1000_3.mp4' --arch resnet3d50
```

```
    Extracting frames using ffmpeg...
    RESULT ON ../1000_3.mp4
```

```
! python test_video.py --video_file '../1000_4.mp4' --arch resnet3d50
```

```
    Extracting frames using ffmpeg...
    RESULT ON ../1000_4.mp4
    0.061 -> assembling
    0.049 -> shaving
    0.046 -> taping
    0.043 -> vacuuming
    0.037 -> balancing
```

```
! python test_video.py --video_file '../1100_1.mp4' --arch resnet3d50
```

```
    Extracting frames using ffmpeg...
    RESULT ON ../1100_1.mp4
    0.182 -> assembling
    0.074 -> raising
    0.046 -> painting
    0.039 -> lifting
    0.034 -> gripping
```

```
! python test_video.py --video_file '../1200_1.mp4' --arch resnet3d50
```

```
    Extracting frames using ffmpeg...
    RESULT ON ../1200_1.mp4
    0.144 -> preaching
    0.071 -> assembling
    0.054 -> shaving
    0.039 -> painting
    0.037 -> vacuuming
```

```
! python test_video.py --video_file '../1300_1.mp4' --arch resnet3d50
```

```
    Extracting frames using ffmpeg...
    RESULT ON ../1300_1.mp4
    0.751 -> building
    0.174 -> assembling
    0.068 -> constructing
    0.003 -> sanding
    0.001 -> working
```

```
! python test_video.py --video_file '../1400_1.mp4' --arch resnet3d50
```

```
    Extracting frames using ffmpeg...
    RESULT ON ../1400_1.mp4
    0.248 -> inflating
    0.166 -> kneeling
    0.100 -> flipping
    0.030 -> handcuffing
    0.019 -> juggling
```