CS445: Computational Photography

Setup

```
In [2]: import ffmpeg
import cv2
import numpy as np
import os
from numpy.linalg import svd, inv
import utils
%matplotlib inline
from matplotlib import pyplot as plt
```

Part I: Stitch two key frames

This involves:

- 1. compute homography H between two frames (reference frame: 450);
- project each frame onto the same surface;
- 3. blend the surfaces.

Check that your homography is correct by plotting four points that form a square in frame 270 and their projections in each image.

```
Ib gray = cv2.cvtColor(Ib,cv2.COLOR BGR2GRAY)
# Initiate SIFT detector
# sift = cv2.xfeatures2d.SIFT create()
sift = cv2.SIFT create() # for opencv 4.1.8
# find the keypoints and descriptors with SIFT
kp a, des a = sift.detectAndCompute(Ia gray, None)
kp b, des b = sift.detectAndCompute(Ib gray, None)
# BFMatcher with default params
bf = cv2.BFMatcher()
matches = bf.knnMatch(des a, des b, k=2)
# Apply ratio test
good = []
for m, n in matches:
    if m.distance < 0.75*n.distance:</pre>
        good.append(m)
numMatches = int(len(good))
matches = good
\# Xa and Xb are 3xN matrices that contain homogeneous coordinates for the N
# matching points for each image
Xa = np.ones((3, numMatches))
Xb = np.ones((3, numMatches))
for idx, match i in enumerate(matches):
    Xa[:,idx][0:2] = kp a[match i.queryIdx].pt
    Xb[:,idx][0:2] = kp b[match i.trainIdx].pt
## RANSAC
niter = 1000
best score = 0
n to sample = 4 # Put the correct number of points here
for t in range(niter):
   # estimate homography
    subset = np.random.choice(numMatches, n to sample, replace=False)
    pts1 = Xa[:,subset]
   pts2 = Xb[:,subset]
    # print("numMatches: ", numMatches)
    # print("pts1: ", pts1)
    # print("pts2: ", pts2)
    H t = homography func(pts1, pts2, normalization func) # edit helper code below (
    # score homography
    Xb = np.dot(H t, Xa) # project points from first image to second using H
    score t, inliers t = score projection(Xb[:2,:]/Xb[2,:], Xb_[:2,:]/Xb_[2,:])
    if score t > best score:
       best score = score t
        H = H t
        in idx = inliers t
print('best score: {:02f}'.format(best score))
# Optionally, you may want to re-estimate H based on inliers
return H
```

```
In [5]: | def computeHomography(pts1, pts2,normalization func=None):
            Compute homography that maps from pts1 to pts2 using SVD. Normalization is optional.
             Input: pts1 and pts2 are 3xN matrices for N points in homogeneoue coordinates.
            Output: H is a 3x3 matrix, such that pts2~=H*pts1
             # TO DO
            if normalization func is not None:
              pts1 = normalization func(pts1)
              pts2 = normalization func(pts2)
             # construct A matrix
            A = []
            for i in range(pts1.shape[1]):
                u1, v1 = pts1[0,i], pts1[1,i]
                u2, v2 = pts2[0,i], pts2[1,i]
                A.append([u1, v1, 1, 0, 0, 0, -u2*u1, -u2*v1, -u2])
                A.append([0, 0, 0, u1, v1, 1, -v2*u1, -v2*v1, -v2])
            A = np.array(A)
             # Apply SVD
            U, S, V = np.linalg.svd(A)
            # h is smallest singular value in V
            h = V[-1, :]
            H = h.reshape(3,3)
            return H
In [6]:
        # images location
        im1 = './images/input/frames/f0270.jpg'
        im2 = './images/input/frames/f0450.jpg'
        # Load an color image in grayscale
        im1 = cv2.imread(im1)
        im2 = cv2.imread(im2)
        H = auto homography(im1,im2, computeHomography)
        print(H/H.max())
         # plot the frames here
        box pts = np.array([[300, 400, 400, 300, 300], [100, 100, 200, 200, 100], [1, 1, 1, 1, 1
        plt.figure()
        plt.imshow(im1[:,:,[2,1,0]])
        plt.plot(box pts[0,:], box pts[1, :], 'r-')
        plt.title('frame 270')
         # TO DO: project points into im2 and display the projected lines on im2
        proj box pts = np.dot(H, box pts)
        proj box pts = proj box pts/proj box pts[2,:]
        plt.figure()
        plt.imshow(im2[:,:,[2,1,0]])
        plt.plot(proj box pts[0,:], proj box pts[1, :], 'r-')
        plt.title('frame 450')
        plt.show()
```

best score: 214.000000

[[-4.89723686e-03 -1.88955395e-04 1.00000000e+00] [-8.23767398e-05 -4.62337601e-03 8.32232803e-02] [-2.05922666e-06 9.39652600e-08 -3.92221457e-03]]



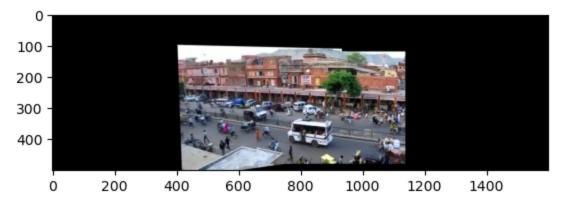


```
In [7]: projectedWidth = 1600
    projectedHeight = 500
    Tr = np.array([[1, 0, 660], [0, 1, 120], [0, 0, 1]], dtype=np.float32)

# TO DO: warp and blend the two images
    iml_warped = cv2.warpPerspective(iml, np.dot(Tr, H), (projectedWidth, projectedHeight))
    im2_warped = cv2.warpPerspective(im2, Tr, (projectedWidth, projectedHeight))
    blendOut = utils.blendImages(iml_warped, im2_warped)

plt.figure()
```

```
plt.imshow(blendOut[:,:,[2,1,0]])
plt.show()
```



Part II: Panorama using five key frames

best score: 213.000000

Produce a panorama by mapping five key frames [90, 270, 450, 630, 810] onto the same reference frame 450.

```
In [8]: key frames idx = np.array([90, 270, 450, 630, 810])-1
        frames = np.zeros((len(key frames idx), im1.shape[0], im1.shape[1], im1.shape[2]),dtype=
        for n in range(len(key frames idx)):
          frames[n] = cv2.imread("./images/input/frames/f0{num}.jpg".format(num=str(key frames i
        ### TO DO solution
        projectedWidth = 1600
        projectedHeight = 700
        Tr = np.array([[1, 0, 660], [0, 1, 120], [0, 0, 1]], dtype=np.float32)
        homographies = [None] * 5
        homographies[2] = np.eye(3) # reference frame
        ref frame = frames[2] # frame 450
        # homographics for frames 270 and 630
        homographies[1] = auto homography(frames[1], ref frame, computeHomography)
        homographies[3] = auto_homography(frames[3], ref frame, computeHomography)
        # homographics for frames 90 and 810
         # two stage mapping by using frame 270/630 as a guide
        H 90 to 270 = auto homography(frames[0], frames[1], computeHomography)
        homographies[0] = np.dot(homographies[1], H 90 to 270)
        H 810 to 630 = auto homography(frames[4], frames[3], computeHomography)
        homographies[4] = np.dot(homographies[3], H 810 to 630)
        # warp and blend the frames
        warped frames = [None] * 5
        for n in range(5):
          warped frames[n] = cv2.warpPerspective(frames[n], np.dot(Tr, homographies[n]), (projective)
        # blend the frames
        panorama = np.zeros((projectedHeight, projectedWidth, 3), dtype='uint8')
        for n in range(5):
          panorama = utils.blendImages(panorama, warped frames[n])
        plt.figure()
        plt.imshow(panorama[:,:,[2,1,0]])
        plt.show()
```

best score: 211.000000 best score: 256.000000 best score: 149.000000



Part 3: Map the video to the reference plane

Project each frame onto the reference frame (using same size panorama) to create a video that shows the portion of the panorama revealed by each frame

```
# read all the images
 In [9]:
         import os
         dir frames = 'images/input/frames'
         filenames = []
         filesinfo = os.scandir(dir frames)
         filenames = [f.path for f in filesinfo if f.name.endswith(".jpg")]
         filenames.sort(key=lambda f: int(''.join(filter(str.isdigit, f))))
         frameCount = len(filenames)
         frameHeight, frameWidth, frameChannels = cv2.imread(filenames[0]).shape
          frames = np.zeros((frameCount, frameHeight, frameWidth, frameChannels),dtype='uint8')
         for idx, file i in enumerate(filenames):
           frames[idx] = cv2.imread(file i)
In [12]: ### TO DO part 3 solution
          # key frames
         key frames idx = np.array([90, 270, 450, 630, 810])-1
         key homographies = homographies.copy() # homographies from part 2
          # construct the homography for each frame
         all homographies = [None] * frameCount
         for i in range(frameCount):
             if i in key frames idx:
                 all homographies[i] = key homographies[np.where(key frames idx == i)[0][0]]
             else:
                  # find the nearest key frame
                 nearest key frame idx = np.argmin(np.abs(key frames idx - i))
                 nearest key frame = key frames idx[nearest key frame idx]
                 print("i: ", i, "; nearest key frame: ", nearest key frame+1)
                  # compute the homography for the ith frame
                 H i to key = auto homography(frames[i], frames[nearest key frame], computeHomogr
                 all homographies[i] = np.dot(key homographies[nearest key frame idx], H i to key
          # save the all homographies
         np.save('all homographies.npy', all homographies)
```

<pre>i: 0 ; nearest_key_frame: best score: 427.000000</pre>	90
<pre>i: 1 ; nearest_key_frame:</pre>	90
<pre>best score: 427.000000 i: 2; nearest_key_frame:</pre>	90
<pre>best score: 452.000000 i: 3; nearest key frame:</pre>	90
best score: 439.000000	
<pre>i: 4 ; nearest_key_frame: best score: 460.000000</pre>	90
<pre>i: 5 ; nearest_key_frame: best score: 449.000000</pre>	90
<pre>i: 6 ; nearest_key_frame:</pre>	90
<pre>best score: 481.000000 i: 7; nearest_key_frame:</pre>	90
<pre>best score: 456.000000 i: 8 ; nearest key frame:</pre>	90
best score: 476.000000	
<pre>i: 9 ; nearest_key_frame: best score: 495.000000</pre>	90
<pre>i: 10 ; nearest_key_frame: best score: 493.000000</pre>	90
<pre>i: 11 ; nearest_key_frame:</pre>	90
<pre>best score: 479.000000 i: 12; nearest_key_frame:</pre>	90
best score: 494.000000 i: 13; nearest key frame:	90
best score: 477.000000	
<pre>i: 14 ; nearest_key_frame: best score: 508.000000</pre>	90
<pre>i: 15 ; nearest_key_frame: best score: 505.000000</pre>	90
<pre>i: 16 ; nearest_key_frame:</pre>	90
<pre>best score: 515.000000 i: 17; nearest_key_frame:</pre>	90
<pre>best score: 507.000000 i: 18; nearest_key_frame:</pre>	90
best score: 490.000000	
<pre>i: 19 ; nearest_key_frame: best score: 495.000000</pre>	90
<pre>i: 20 ; nearest_key_frame: best score: 479.000000</pre>	90
<pre>i: 21 ; nearest_key_frame:</pre>	90
<pre>best score: 490.000000 i: 22; nearest_key_frame:</pre>	90
<pre>best score: 503.000000 i: 23; nearest_key_frame:</pre>	90
best score: 492.000000	
<pre>i: 24 ; nearest_key_frame: best score: 516.000000</pre>	90
<pre>i: 25 ; nearest_key_frame: best score: 501.000000</pre>	90
<pre>i: 26 ; nearest_key_frame:</pre>	90
<pre>best score: 496.000000 i: 27; nearest_key_frame:</pre>	90
<pre>best score: 524.000000 i: 28; nearest key frame:</pre>	90
best score: 527.000000	
<pre>i: 29 ; nearest_key_frame: best score: 512.000000</pre>	90
<pre>i: 30 ; nearest_key_frame: best score: 521.000000</pre>	90
<pre>i: 31 ; nearest_key_frame:</pre>	90
<pre>best score: 523.000000 i: 32; nearest_key_frame:</pre>	90
best score: 532.000000	

<pre>i: 33 ; nearest_key_frame best score: 541.000000</pre>	90
i: 34 ; nearest_key_frame	90
<pre>best score: 535.000000 i: 35; nearest_key_frame</pre>	e: 90
<pre>best score: 548.000000 i: 36; nearest key frame</pre>	e: 90
best score: 540.000000	
<pre>i: 37 ; nearest_key_frame best score: 527.000000</pre>	€: 90
<pre>i: 38 ; nearest_key_frame best score: 521.000000</pre>	90
i: 39 ; nearest_key_frame	e: 90
<pre>best score: 550.000000 i: 40; nearest_key_frame</pre>	e: 90
best score: 552.000000 i: 41; nearest key frame	e: 90
best score: 550.000000	
<pre>i: 42 ; nearest_key_frame best score: 534.000000</pre>	90
<pre>i: 43 ; nearest_key_frame best score: 540.000000</pre>	90
i: 44 ; nearest_key_frame	e: 90
<pre>best score: 545.000000 i: 45; nearest_key_frame</pre>	e: 90
best score: 518.000000 i: 46; nearest key frame	e: 90
best score: 565.000000	
<pre>i: 47 ; nearest_key_frame best score: 555.000000</pre>	e: 90
<pre>i: 48 ; nearest_key_frame best score: 544.000000</pre>	90
i: 49 ; nearest_key_frame	e: 90
<pre>best score: 554.000000 i: 50; nearest_key_frame</pre>	e: 90
<pre>best score: 541.000000 i: 51; nearest_key_frame</pre>	e: 90
best score: 557.000000	
<pre>i: 52 ; nearest_key_frame best score: 542.000000</pre>	90
<pre>i: 53 ; nearest_key_frame best score: 564.000000</pre>	90
i: 54 ; nearest_key_frame	e: 90
<pre>best score: 566.000000 i: 55; nearest_key_frame</pre>	e: 90
best score: 541.000000 i: 56; nearest key frame	e: 90
best score: 564.000000	
<pre>i: 57; nearest_key_frame best score: 594.000000</pre>	e: 90
<pre>i: 58 ; nearest_key_frame best score: 565.000000</pre>	90
i: 59 ; nearest_key_frame	e: 90
<pre>best score: 596.000000 i: 60 ; nearest_key_frame</pre>	e: 90
best score: 561.000000 i: 61; nearest key frame	e: 90
best score: 582.000000	
<pre>i: 62 ; nearest_key_frame best score: 619.000000</pre>	e: 90
<pre>i: 63 ; nearest_key_frame best score: 597.000000</pre>	90
i: 64 ; nearest_key_frame	e: 90
<pre>best score: 612.000000 i: 65; nearest_key_frame</pre>	e: 90
best score: 614.000000	

best score: 642.00000 i: 67; nearest_key_frame: 90 best score: 653.000000 i: 68; nearest_key_frame: 90 best score: 638.000000 i: 69; nearest_key_frame: 90 best score: 627.000000 i: 70; nearest_key_frame: 90 best score: 635.000000 i: 71; nearest_key_frame: 90 best score: 617.000000 i: 72; nearest_key_frame: 90 best score: 684.000000 i: 73; nearest_key_frame: 90 best score: 624.000000 i: 74; nearest_key_frame: 90 best score: 674.000000 i: 75; nearest_key_frame: 90 best score: 661.000000 i: 76; nearest_key_frame: 90 best score: 661.000000 i: 77; nearest_key_frame: 90 best score: 645.000000 i: 78; nearest_key_frame: 90 best score: 767.000000 i: 78; nearest_key_frame: 90 best score: 767.000000 i: 80; nearest_key_frame: 90 best score: 767.000000 i: 80; nearest_key_frame: 90 best score: 762.000000 i: 81; nearest_key_frame: 90 best score: 762.000000 i: 83; nearest_key_frame: 90 best score: 762.000000 i: 84; nearest_key_frame: 90 best score: 837.000000 i: 85; nearest_key_frame: 90 best score: 878.000000 i: 86; nearest_key_frame: 90 best score: 1072.000000 i: 87; nearest_key_frame: 90 best score: 1072.000000 i: 88; nearest_key_frame: 90 best score: 1194.000000 i: 90; nearest_key_frame: 90 best score: 1194.000000 i: 91; nearest_key_frame: 90 best score: 817.000000 i: 92; nearest_key_frame: 90 best score: 62.000000 i: 94; nearest_key_frame: 90 best score: 678.000000 i: 95; nearest_key_frame: 90 best score: 688.000000 i: 96; nearest_key_frame: 90 best score: 689.000000 i: 97; nearest_key_frame: 90 best score: 680.000000 i: 99; nearest_key_frame: 90 best score: 662.000000 i: 99; nearest_key_frame: 90 best score: 663.000000 i: 99; nearest_key_frame: 90 best score: 663.000000 i: 99; nearest_key_frame: 90 best score: 638.0000000 i: 99; nearest_key_frame: 90 best score: 638.0000000 i: 99; nearest_key_frame: 90 best score: 638.00000000 i: 99; nearest_key_frame: 90 best scor	i: 66; nearest_key_frame:	90
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i: 83; nearest_key_frame: 90 best score: 750.000000 i: 84; nearest_key_frame: 90 best score: 837.000000 i: 85; nearest_key_frame: 90 best score: 878.000000 i: 86; nearest_key_frame: 90 best score: 969.000000 i: 87; nearest_key_frame: 90 best score: 1072.000000 i: 88; nearest_key_frame: 90 best score: 1265.000000 i: 90; nearest_key_frame: 90 best score: 1194.000000 i: 91; nearest_key_frame: 90 best score: 1117.000000 i: 92; nearest_key_frame: 90 best score: 851.000000 i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90 best score: 656.000000		90
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best score: 837.000000 i: 85; nearest_key_frame: 90 best score: 878.000000 i: 86; nearest_key_frame: 90 best score: 969.000000 i: 87; nearest_key_frame: 90 best score: 1072.000000 i: 88; nearest_key_frame: 90 best score: 1265.000000 i: 90; nearest_key_frame: 90 best score: 1194.000000 i: 91; nearest_key_frame: 90 best score: 1117.000000 i: 92; nearest_key_frame: 90 best score: 851.000000 i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90		90
best score: 878.000000 i: 86; nearest_key_frame: 90 best score: 969.000000 i: 87; nearest_key_frame: 90 best score: 1072.000000 i: 88; nearest_key_frame: 90 best score: 1265.000000 i: 90; nearest_key_frame: 90 best score: 1194.000000 i: 91; nearest_key_frame: 90 best score: 1117.000000 i: 92; nearest_key_frame: 90 best score: 851.000000 i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.00000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90	best score: 837.000000	
best score: 969.000000 i: 87; nearest_key_frame: 90 best score: 1072.000000 i: 88; nearest_key_frame: 90 best score: 1265.000000 i: 90; nearest_key_frame: 90 best score: 1194.000000 i: 91; nearest_key_frame: 90 best score: 1117.000000 i: 92; nearest_key_frame: 90 best score: 851.000000 i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90	best score: 878.000000	
i: 87; nearest_key_frame: 90 best score: 1072.000000 i: 88; nearest_key_frame: 90 best score: 1265.000000 i: 90; nearest_key_frame: 90 best score: 1194.000000 i: 91; nearest_key_frame: 90 best score: 1117.000000 i: 92; nearest_key_frame: 90 best score: 851.000000 i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90		90
i: 88; nearest_key_frame: 90 best score: 1265.000000 i: 90; nearest_key_frame: 90 best score: 1194.000000 i: 91; nearest_key_frame: 90 best score: 1117.000000 i: 92; nearest_key_frame: 90 best score: 851.000000 i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90 best score: 656.000000	<pre>i: 87 ; nearest_key_frame:</pre>	90
i: 90; nearest_key_frame: 90 best score: 1194.000000 i: 91; nearest_key_frame: 90 best score: 1117.000000 i: 92; nearest_key_frame: 90 best score: 851.000000 i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90		90
best score: 1194.000000 i: 91; nearest_key_frame: 90 best score: 1117.000000 i: 92; nearest_key_frame: 90 best score: 851.000000 i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90		90
best score: 1117.000000 i: 92; nearest_key_frame: 90 best score: 851.000000 i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90	best score: 1194.000000	
i: 92; nearest_key_frame: 90 best score: 851.000000 i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90		90
i: 93; nearest_key_frame: 90 best score: 729.000000 i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90	<pre>i: 92 ; nearest_key_frame:</pre>	90
i: 94; nearest_key_frame: 90 best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90	<pre>i: 93 ; nearest_key_frame:</pre>	90
best score: 783.000000 i: 95; nearest_key_frame: 90 best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90		90
<pre>best score: 662.000000 i: 96; nearest_key_frame: 90 best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90</pre>	best score: 783.000000	
<pre>best score: 698.000000 i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90</pre>		90
<pre>i: 97; nearest_key_frame: 90 best score: 622.000000 i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90</pre>		90
<pre>i: 98; nearest_key_frame: 90 best score: 656.000000 i: 99; nearest_key_frame: 90</pre>	<pre>i: 97 ; nearest_key_frame:</pre>	90
best score: 656.000000 i: 99; nearest_key_frame: 90		90
<u> </u>	best score: 656.000000	
		90

<pre>i: 100 ; nearest_key_frame:</pre>	90
<pre>best score: 610.000000 i: 101; nearest key frame:</pre>	90
best score: 591.000000	90
<pre>i: 102 ; nearest_key_frame:</pre>	90
best score: 597.000000	0.0
<pre>i: 103 ; nearest_key_frame: best score: 682.000000</pre>	90
i: 104 ; nearest key frame:	90
best score: 554.000000	
i: 105; nearest_key_frame:	90
<pre>best score: 494.000000 i: 106; nearest key frame:</pre>	90
best score: 538.00000	3 0
<pre>i: 107 ; nearest_key_frame:</pre>	90
<pre>best score: 471.000000 i: 108 ; nearest key frame:</pre>	90
best score: 528.000000	90
<pre>i: 109 ; nearest_key_frame:</pre>	90
best score: 473.00000	
<pre>i: 110 ; nearest_key_frame: best score: 488.000000</pre>	90
i: 111 ; nearest key frame:	90
best score: 472.000000	
i: 112 ; nearest_key_frame:	90
<pre>best score: 492.000000 i: 113 ; nearest key frame:</pre>	90
best score: 512.000000	
i: 114 ; nearest_key_frame:	90
<pre>best score: 477.000000 i: 115 ; nearest key frame:</pre>	90
best score: 530.000000	90
<pre>i: 116 ; nearest_key_frame:</pre>	90
best score: 479.000000	0.0
<pre>i: 117 ; nearest_key_frame: best score: 429.000000</pre>	90
<pre>i: 118 ; nearest_key_frame:</pre>	90
best score: 465.00000	0.0
<pre>i: 119 ; nearest_key_frame: best score: 417.000000</pre>	90
<pre>i: 120 ; nearest_key_frame:</pre>	90
best score: 464.000000	
<pre>i: 121 ; nearest_key_frame: best score: 423.000000</pre>	90
i: 122; nearest key frame:	90
best score: 405.000000	
i: 123 ; nearest_key_frame:	90
best score: 420.000000 i: 124; nearest key frame:	90
best score: 419.000000	3 0
<pre>i: 125 ; nearest_key_frame:</pre>	90
best score: 419.000000 i: 126; nearest key frame:	90
best score: 384.00000	50
<pre>i: 127 ; nearest_key_frame:</pre>	90
best score: 430.000000	0.0
<pre>i: 128 ; nearest_key_frame: best score: 411.000000</pre>	90
i: 129 ; nearest_key_frame:	90
best score: 387.00000	0.0
<pre>i: 130 ; nearest_key_frame: best score: 388.000000</pre>	90
i: 131 ; nearest_key_frame:	90
best score: 349.000000	_
<pre>i: 132 ; nearest_key_frame: best score: 421.000000</pre>	90
DEST 20016: 471.000000	

<pre>i: 133 ; nearest_key_frame: best score: 365.000000</pre>	90
<pre>i: 134 ; nearest_key_frame:</pre>	90
<pre>best score: 372.000000 i: 135 ; nearest_key_frame:</pre>	90
<pre>best score: 350.000000 i: 136; nearest_key_frame:</pre>	90
<pre>best score: 364.000000 i: 137 ; nearest_key_frame:</pre>	90
best score: 360.000000 i: 138; nearest key frame:	90
best score: 347.000000 i: 139; nearest key frame:	90
best score: 399.000000	
<pre>i: 140 ; nearest_key_frame: best score: 364.000000</pre>	90
<pre>i: 141 ; nearest_key_frame: best score: 345.000000</pre>	90
<pre>i: 142 ; nearest_key_frame: best score: 360.000000</pre>	90
<pre>i: 143 ; nearest_key_frame: best score: 369.000000</pre>	90
i: 144; nearest_key_frame: best score: 368.000000	90
<pre>i: 145 ; nearest_key_frame:</pre>	90
<pre>best score: 346.000000 i: 146; nearest_key_frame:</pre>	90
<pre>best score: 365.000000 i: 147 ; nearest_key_frame:</pre>	90
best score: 361.000000 i: 148; nearest key frame:	90
best score: 370.000000 i: 149; nearest key frame:	90
best score: 353.000000	
<pre>i: 150 ; nearest_key_frame: best score: 349.00000</pre>	90
<pre>i: 151 ; nearest_key_frame: best score: 346.000000</pre>	90
<pre>i: 152 ; nearest_key_frame: best score: 349.000000</pre>	90
<pre>i: 153 ; nearest_key_frame: best score: 346.000000</pre>	90
<pre>i: 154 ; nearest_key_frame: best score: 348.000000</pre>	90
<pre>i: 155 ; nearest_key_frame:</pre>	90
best score: 342.000000 i: 156; nearest_key_frame:	90
<pre>best score: 330.000000 i: 157; nearest_key_frame:</pre>	90
<pre>best score: 361.000000 i: 158 ; nearest_key_frame:</pre>	90
best score: 356.000000 i: 159; nearest key frame:	90
best score: 347.000000 i: 160; nearest key frame:	90
best score: 352.000000	
i: 161; nearest_key_frame: best score: 361.00000	90
<pre>i: 162 ; nearest_key_frame: best score: 358.000000</pre>	90
<pre>i: 163 ; nearest_key_frame: best score: 344.000000</pre>	90
<pre>i: 164 ; nearest_key_frame: best score: 352.000000</pre>	90
i: 165; nearest_key_frame: best score: 357.000000	90
2000 00010. 007.000000	

					rame:	90
			316.0		rame:	90
			359.0		ranc.	50
				_key_f	rame:	90
			330.0			0.0
			347.0	_key_f 00000	rame:	90
				key f	rame:	90
			327.0			
			arest 335.0	_key_f	rame:	90
				key f	rame:	90
best	scc	re:	334.0	00000		
				_key_f	rame:	90
			327.0	00000 _key_f	rame.	90
			347.0		ranie.	50
i: :	175	; ne	arest	_key_f	rame:	90
			333.0			0.0
			340.0	_key_f 00000	rame:	90
				_key_f	rame:	90
best	scc	re:	312.0	00000		
			arest 331.0	_key_f	rame:	90
				uuuuu _key_f	rame:	90
			298.0			
					rame:	270
			261.0		rame:	270
			262.0		ranie.	270
					rame:	270
			273.0			070
			270.0		rame:	270
					rame:	270
best	SCC	re:	266.0	00000		
			earest 291.0		rame:	270
					rame:	270
best	sco	re:	295.0	00000		
					rame:	270
			281.0		rame:	270
			264.0			
					rame:	270
			271.0		rame:	270
			306.0		ranc.	270
i: :	191	; ne	earest	_key_f	rame:	270
			292.0			070
			296.0		rame:	270
					rame:	270
			299.0			
			earest 299.0		rame:	270
					rame:	270
best	scc	re:	314.0	00000		
					rame:	270
			297.0 earest		rame:	270
best	scc	re:	317.0	00000		. •
					rame:	270
best	SCC	re:	301.0	00000		

i: 199; nearest_key_frame:	270
<pre>best score: 301.000000 i: 200; nearest key frame:</pre>	270
best score: 311.000000	270
i: 201; nearest_key_frame:	270
<pre>best score: 292.000000 i: 202; nearest key frame:</pre>	270
best score: 325.000000	
i: 203; nearest_key_frame:	270
<pre>best score: 313.000000 i: 204; nearest_key_frame:</pre>	270
best score: 309.000000	
<pre>i: 205 ; nearest_key_frame: best score: 300.000000</pre>	270
i: 206; nearest_key_frame:	270
best score: 309.00000	00
<pre>i: 207 ; nearest_key_frame: best score: 317.000000</pre>	270
<pre>i: 208 ; nearest_key_frame:</pre>	270
best score: 299.000000	270
<pre>i: 209 ; nearest_key_frame: best score: 327.000000</pre>	270
<pre>i: 210 ; nearest_key_frame:</pre>	270
<pre>best score: 342.000000 i: 211 ; nearest_key_frame:</pre>	270
best score: 293.000000	270
i: 212 ; nearest_key_frame:	270
<pre>best score: 334.000000 i: 213 ; nearest_key_frame:</pre>	270
best score: 330.000000	2.0
i: 214 ; nearest_key_frame:	270
<pre>best score: 313.000000 i: 215 ; nearest_key_frame:</pre>	270
best score: 316.000000	
<pre>i: 216 ; nearest_key_frame: best score: 330.000000</pre>	270
<pre>i: 217 ; nearest_key_frame:</pre>	270
best score: 321.000000	270
<pre>i: 218 ; nearest_key_frame: best score: 340.000000</pre>	270
i: 219 ; nearest_key_frame:	270
<pre>best score: 350.000000 i: 220 ; nearest_key_frame:</pre>	270
best score: 366.000000	
i: 221 ; nearest_key_frame:	270
<pre>best score: 339.000000 i: 222 ; nearest_key_frame:</pre>	270
best score: 378.000000	
<pre>i: 223 ; nearest_key_frame: best score: 331.000000</pre>	270
<pre>i: 224 ; nearest_key_frame:</pre>	270
best score: 334.000000	270
<pre>i: 225 ; nearest_key_frame: best score: 351.000000</pre>	270
i: 226; nearest_key_frame:	270
best score: 340.000000 i: 227; nearest key frame:	270
best score: 330.000000	
<pre>i: 228 ; nearest_key_frame: best score: 327.000000</pre>	270
i: 229 ; nearest_key_frame:	270
best score: 345.000000	
<pre>i: 230 ; nearest_key_frame: best score: 336.000000</pre>	270
<pre>i: 231 ; nearest_key_frame:</pre>	270
best score: 347.000000	

<pre>i: 232 ; nearest_key_frame:</pre>	270
<pre>best score: 292.000000 i: 233; nearest_key_frame:</pre>	270
best score: 341.000000	270
<pre>i: 234 ; nearest_key_frame:</pre>	270
<pre>best score: 344.000000 i: 235; nearest_key_frame:</pre>	270
best score: 319.000000	270
<pre>i: 236 ; nearest_key_frame:</pre>	270
<pre>best score: 313.000000 i: 237; nearest_key_frame:</pre>	270
best score: 332.000000	270
<pre>i: 238 ; nearest_key_frame:</pre>	270
<pre>best score: 359.000000 i: 239; nearest_key_frame:</pre>	270
best score: 359.000000	270
<pre>i: 240 ; nearest_key_frame:</pre>	270
<pre>best score: 328.000000 i: 241; nearest_key_frame:</pre>	270
best score: 346.000000	270
<pre>i: 242 ; nearest_key_frame:</pre>	270
<pre>best score: 367.000000 i: 243; nearest_key_frame:</pre>	270
best score: 392.000000	270
<pre>i: 244 ; nearest_key_frame:</pre>	270
<pre>best score: 358.000000 i: 245; nearest_key_frame:</pre>	270
best score: 338.000000	270
<pre>i: 246 ; nearest_key_frame:</pre>	270
<pre>best score: 375.000000 i: 247; nearest_key_frame:</pre>	270
best score: 391.000000	270
i: 248 ; nearest_key_frame:	270
<pre>best score: 395.000000 i: 249; nearest_key_frame:</pre>	270
best score: 404.000000	270
i: 250 ; nearest_key_frame:	270
<pre>best score: 396.000000 i: 251; nearest_key_frame:</pre>	270
best score: 407.000000	2.0
i: 252 ; nearest_key_frame:	270
<pre>best score: 420.000000 i: 253; nearest_key_frame:</pre>	270
best score: 436.000000	
i: 254; nearest_key_frame:	270
<pre>best score: 406.000000 i: 255; nearest_key_frame:</pre>	270
best score: 407.000000	
<pre>i: 256 ; nearest_key_frame: best score: 468.000000</pre>	270
i: 257; nearest_key_frame:	270
best score: 454.000000	
<pre>i: 258 ; nearest_key_frame: best score: 461.000000</pre>	270
i: 259 ; nearest_key_frame:	270
best score: 426.000000	
<pre>i: 260 ; nearest_key_frame: best score: 394.000000</pre>	270
i: 261 ; nearest_key_frame:	270
best score: 441.000000	0.00
<pre>i: 262 ; nearest_key_frame: best score: 497.000000</pre>	270
i: 263 ; nearest_key_frame:	270
best score: 472.000000	
<pre>i: 264 ; nearest_key_frame: best score: 479.00000</pre>	270

best score: 529.000000 i: 266; nearest key_frame: 270 best score: 538.000000 i: 267; nearest key_frame: 270 best score: 607.000000 i: 268; nearest key_frame: 270 best score: 753.000000 i: 270; nearest key_frame: 270 best score: 832.000000 i: 271; nearest key_frame: 270 best score: 663.000000 i: 272; nearest key_frame: 270 best score: 663.000000 i: 273; nearest key_frame: 270 best score: 559.000000 i: 274; nearest key_frame: 270 best score: 543.000000 i: 275; nearest key_frame: 270 best score: 480.000000 i: 276; nearest key_frame: 270 best score: 480.000000 i: 277; nearest key_frame: 270 best score: 440.000000 i: 279; nearest key_frame: 270 best score: 406.000000 i: 279; nearest key_frame: 270 best score: 427.000000 i: 280; nearest key_frame: 270 best score: 435.000000 i: 281; nearest key_frame: 270 best score: 408.000000 i: 282; nearest key_frame: 270 best score: 424.0000000 i: 283; nearest key_frame: 270 best score: 424.0000000 i: 284; nearest key_frame: 270 best score: 388.000000 i: 285; nearest key_frame: 270 best score: 388.000000 i: 286; nearest key_frame: 270 best score: 398.000000 i: 287; nearest key_frame: 270 best score: 398.000000 i: 288; nearest key_frame: 270 best score: 381.000000 i: 289; nearest key_frame: 270 best score: 387.000000 i: 290; nearest key_frame: 270 best score: 387.000000 i: 290; nearest key_frame: 270 best score: 387.000000 i: 290; nearest key_frame: 270 best score: 387.000000 i: 291; nearest key_frame: 270 best score: 387.000000 i: 292; nearest key_frame: 270 best score: 387.000000 i: 293; nearest key_frame: 270 best score: 387.000000 i: 290; nearest key_frame: 270 best score: 387.000000 i: 291; nearest key_frame: 270 best score: 387.000000 i: 290; nearest key_frame: 270 best score: 387.0000000 i: 290; nearest key_fr	<pre>i: 265 ; nearest_key_frame:</pre>	270
best score: 538.000000 i: 267; nearest_key_frame: 270 best score: 607.000000 i: 268; nearest_key_frame: 270 best score: 753.000000 i: 270; nearest_key_frame: 270 best score: 832.000000 i: 271; nearest_key_frame: 270 best score: 663.000000 i: 272; nearest_key_frame: 270 best score: 663.000000 i: 273; nearest_key_frame: 270 best score: 559.000000 i: 274; nearest_key_frame: 270 best score: 559.000000 i: 275; nearest_key_frame: 270 best score: 430.00000 i: 276; nearest_key_frame: 270 best score: 480.000000 i: 277; nearest_key_frame: 270 best score: 440.000000 i: 278; nearest_key_frame: 270 best score: 406.000000 i: 279; nearest_key_frame: 270 best score: 406.000000 i: 280; nearest_key_frame: 270 best score: 435.000000 i: 281; nearest_key_frame: 270 best score: 424.000000 i: 282; nearest_key_frame: 270 best score: 419.000000 i: 284; nearest_key_frame: 270 best score: 398.000000 i: 286; nearest_key_frame: 270 best score: 398.000000 i: 287; nearest_key_frame: 270 best score: 398.000000 i: 288; nearest_key_frame: 270 best score: 398.000000 i: 289; nearest_key_frame: 270 best score: 398.000000 i: 280; nearest_key_frame: 270 best score: 387.000000 i: 290; nearest_key_frame: 270 best score: 380.000000 i: 290; nearest_key_frame:		270
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<pre>best score: 381.000000 i: 292; nearest_key_frame: 270 best score: 374.000000 i: 293; nearest_key_frame: 270 best score: 383.000000 i: 294; nearest_key_frame: 270 best score: 396.000000 i: 295; nearest_key_frame: 270 best score: 371.000000 i: 296; nearest_key_frame: 270 best score: 356.000000 i: 297; nearest_key_frame: 270 best score: 363.000000 i: 298; nearest_key_frame: 270</pre>		270
best score: 374.000000 i: 293; nearest_key_frame: 270 best score: 383.000000 i: 294; nearest_key_frame: 270 best score: 396.000000 i: 295; nearest_key_frame: 270 best score: 371.000000 i: 296; nearest_key_frame: 270 best score: 356.000000 i: 297; nearest_key_frame: 270 best score: 363.000000 i: 298; nearest_key_frame: 270		270
<pre>i: 293 ; nearest_key_frame: 270 best score: 383.000000 i: 294 ; nearest_key_frame: 270 best score: 396.000000 i: 295 ; nearest_key_frame: 270 best score: 371.000000 i: 296 ; nearest_key_frame: 270 best score: 356.000000 i: 297 ; nearest_key_frame: 270 best score: 363.000000 i: 298 ; nearest_key_frame: 270</pre>		270
<pre>best score: 383.000000 i: 294 ; nearest_key_frame: 270 best score: 396.000000 i: 295 ; nearest_key_frame: 270 best score: 371.000000 i: 296 ; nearest_key_frame: 270 best score: 356.000000 i: 297 ; nearest_key_frame: 270 best score: 363.000000 i: 298 ; nearest_key_frame: 270</pre>		270
<pre>best score: 396.000000 i: 295; nearest_key_frame: 270 best score: 371.000000 i: 296; nearest_key_frame: 270 best score: 356.000000 i: 297; nearest_key_frame: 270 best score: 363.000000 i: 298; nearest_key_frame: 270</pre>	best score: 383.000000	
<pre>i: 295 ; nearest_key_frame: 270 best score: 371.000000 i: 296 ; nearest_key_frame: 270 best score: 356.000000 i: 297 ; nearest_key_frame: 270 best score: 363.000000 i: 298 ; nearest_key_frame: 270</pre>		270
<pre>i: 296; nearest_key_frame: 270 best score: 356.000000 i: 297; nearest_key_frame: 270 best score: 363.000000 i: 298; nearest_key_frame: 270</pre>	<pre>i: 295 ; nearest_key_frame:</pre>	270
<pre>best score: 356.000000 i: 297 ; nearest_key_frame: 270 best score: 363.000000 i: 298 ; nearest_key_frame: 270</pre>		270
<pre>i: 297 ; nearest_key_frame: 270 best score: 363.000000 i: 298 ; nearest_key_frame: 270</pre>		2/0
i: 298 ; nearest_key_frame: 270	i: 297 ; nearest_key_frame:	270
		270
	best score: 374.000000	

i: 299 ; nearest_key_frame: 27	70
<pre>best score: 387.000000 i: 300; nearest_key_frame: 27</pre>	7 ()
best score: 357.000000	
<pre>i: 301 ; nearest_key_frame: 27 best score: 350.000000</pre>	70
i: 302; nearest_key_frame: 27	70
best score: 329.000000	
<pre>i: 303; nearest_key_frame: 27 best score: 363.000000</pre>	70
i: 304; nearest_key_frame: 27	70
best score: 342.000000 i: 305; nearest key frame: 27	7 0
i: 305; nearest_key_frame: 27 best score: 367.000000	U
i: 306 ; nearest_key_frame: 27	70
<pre>best score: 360.000000 i: 307; nearest_key_frame: 27</pre>	7 ()
best score: 366.000000	Ŭ
i: 308; nearest_key_frame: 27 best score: 371.000000	70
i: 309; nearest_key_frame: 27	70
best score: 373.000000	
<pre>i: 310 ; nearest_key_frame: 27 best score: 379.000000</pre>	0
i: 311 ; nearest_key_frame: 27	70
<pre>best score: 399.000000 i: 312 ; nearest_key_frame: 27</pre>	7 ()
best score: 369.000000	U
i: 313 ; nearest_key_frame: 27	70
<pre>best score: 357.000000 i: 314; nearest_key_frame: 27</pre>	7 0
best score: 363.000000	
<pre>i: 315 ; nearest_key_frame: 27 best score: 344.000000</pre>	70
i: 316 ; nearest_key_frame: 27	70
best score: 351.000000	7 0
<pre>i: 317 ; nearest_key_frame: 27 best score: 341.000000</pre>	U
i: 318; nearest_key_frame: 27	70
<pre>best score: 346.000000 i: 319 ; nearest_key_frame: 27</pre>	7 0
best score: 347.000000	
i: 320 ; nearest_key_frame: 27 best score: 364.000000	70
i: 321; nearest_key_frame: 27	70
best score: 338.000000	7 0
i: 322; nearest_key_frame: 27 best score: 342.000000	U
i: 323 ; nearest_key_frame: 27	70
<pre>best score: 345.000000 i: 324; nearest_key_frame: 27</pre>	7 ()
best score: 339.000000	
i: 325; nearest_key_frame: 27 best score: 349.000000	70
i: 326; nearest_key_frame: 27	70
best score: 369.000000	7.0
i: 327; nearest_key_frame: 27 best score: 320.000000	U
i: 328 ; nearest_key_frame: 27	70
<pre>best score: 320.000000 i: 329; nearest_key_frame: 27</pre>	7 ()
best score: 338.00000	J
i: 330 ; nearest_key_frame: 27	0
<pre>best score: 342.000000 i: 331; nearest_key_frame: 27</pre>	70
best score: 322.000000	

<pre>i: 332 ; nearest_key_frame: best score: 305.000000</pre>	270
<pre>i: 333 ; nearest_key_frame:</pre>	270
<pre>best score: 303.000000 i: 334 ; nearest_key_frame:</pre>	270
<pre>best score: 329.000000 i: 335 ; nearest_key_frame:</pre>	270
<pre>best score: 305.000000 i: 336; nearest_key_frame:</pre>	270
best score: 311.000000 i: 337; nearest_key_frame:	
best score: 330.000000	
<pre>i: 338 ; nearest_key_frame: best score: 318.000000</pre>	
<pre>i: 339 ; nearest_key_frame: best score: 283.000000</pre>	270
<pre>i: 340 ; nearest_key_frame: best score: 286.000000</pre>	270
i: 341; nearest_key_frame: best score: 282.000000	270
<pre>i: 342 ; nearest_key_frame:</pre>	270
<pre>best score: 290.000000 i: 343; nearest_key_frame:</pre>	270
<pre>best score: 277.000000 i: 344; nearest_key_frame:</pre>	270
<pre>best score: 293.00000 i: 345 ; nearest_key_frame:</pre>	270
best score: 273.000000 i: 346; nearest_key_frame:	
best score: 288.000000	
<pre>i: 347 ; nearest_key_frame: best score: 283.000000</pre>	
<pre>i: 348 ; nearest_key_frame: best score: 279.000000</pre>	270
<pre>i: 349 ; nearest_key_frame: best score: 300.000000</pre>	270
i: 350; nearest_key_frame: best score: 269.000000	270
<pre>i: 351 ; nearest_key_frame:</pre>	270
<pre>best score: 302.000000 i: 352; nearest_key_frame:</pre>	270
<pre>best score: 309.000000 i: 353; nearest key frame:</pre>	270
best score: 309.000000 i: 354; nearest key frame:	270
best score: 284.000000 i: 355; nearest key frame:	
best score: 279.000000	
<pre>i: 356; nearest_key_frame: best score: 306.000000</pre>	270
<pre>i: 357 ; nearest_key_frame: best score: 307.000000</pre>	270
<pre>i: 358 ; nearest_key_frame: best score: 300.000000</pre>	270
i: 359; nearest_key_frame: best score: 302.000000	270
<pre>i: 360 ; nearest_key_frame:</pre>	450
<pre>best score: 328.000000 i: 361 ; nearest_key_frame:</pre>	450
<pre>best score: 339.000000 i: 362 ; nearest_key_frame:</pre>	450
best score: 336.000000 i: 363; nearest key frame:	
best score: 351.000000 i: 364; nearest key frame:	
best score: 322.000000	700

<pre>i: 365 ; nearest_key_frame: best score: 309.000000</pre>	450
i: 366; nearest_key_frame: best score: 294.000000	450
<pre>i: 367 ; nearest_key_frame:</pre>	450
<pre>best score: 306.000000 i: 368 ; nearest_key_frame:</pre>	450
<pre>best score: 331.000000 i: 369; nearest_key_frame:</pre>	450
<pre>best score: 317.000000 i: 370 ; nearest_key_frame:</pre>	450
<pre>best score: 297.000000 i: 371; nearest key frame:</pre>	450
best score: 362.000000 i: 372; nearest key frame:	
best score: 320.000000 i: 373; nearest key frame:	
best score: 339.000000 i: 374; nearest key frame:	
best score: 356.000000	
<pre>i: 375 ; nearest_key_frame: best score: 327.000000</pre>	
<pre>i: 376 ; nearest_key_frame: best score: 289.000000</pre>	450
<pre>i: 377 ; nearest_key_frame: best score: 350.000000</pre>	450
<pre>i: 378 ; nearest_key_frame: best score: 334.000000</pre>	450
<pre>i: 379 ; nearest_key_frame: best score: 303.000000</pre>	450
i: 380; nearest_key_frame: best score: 319.000000	450
<pre>i: 381 ; nearest_key_frame:</pre>	450
<pre>best score: 325.000000 i: 382; nearest_key_frame:</pre>	450
<pre>best score: 336.000000 i: 383; nearest_key_frame:</pre>	450
<pre>best score: 322.000000 i: 384; nearest_key_frame:</pre>	450
<pre>best score: 338.000000 i: 385; nearest_key_frame:</pre>	450
<pre>best score: 336.000000 i: 386; nearest_key_frame:</pre>	
best score: 356.000000 i: 387; nearest_key_frame:	
best score: 382.000000 i: 388; nearest key frame:	
best score: 359.00000	
i: 389; nearest_key_frame: best score: 341.000000	
<pre>i: 390 ; nearest_key_frame: best score: 342.000000</pre>	
<pre>i: 391 ; nearest_key_frame: best score: 338.000000</pre>	450
<pre>i: 392 ; nearest_key_frame: best score: 339.000000</pre>	450
<pre>i: 393 ; nearest_key_frame: best score: 358.000000</pre>	450
i: 394; nearest_key_frame: best score: 365.000000	450
i: 395; nearest_key_frame: best score: 396.000000	450
<pre>i: 396 ; nearest_key_frame:</pre>	450
best score: 382.000000 i: 397; nearest_key_frame:	450
best score: 365.000000	

<pre>i: 398 ; nearest_key_frame: best score: 334.000000</pre>	450
i: 399; nearest_key_frame: best score: 357.000000	450
i: 400; nearest_key_frame: best score: 344.000000	450
i: 401; nearest_key_frame: best score: 346.000000	450
i: 402; nearest_key_frame: best score: 367.000000	450
i: 403; nearest_key_frame: best score: 367.000000	450
<pre>i: 404 ; nearest_key_frame:</pre>	450
<pre>best score: 376.000000 i: 405; nearest_key_frame:</pre>	450
best score: 345.000000 i: 406; nearest_key_frame:	450
<pre>best score: 344.000000 i: 407; nearest_key_frame:</pre>	450
<pre>best score: 347.000000 i: 408; nearest_key_frame:</pre>	450
<pre>best score: 404.000000 i: 409; nearest_key_frame:</pre>	450
<pre>best score: 407.000000 i: 410 ; nearest_key_frame:</pre>	450
<pre>best score: 401.000000 i: 411; nearest_key_frame:</pre>	450
<pre>best score: 395.000000 i: 412; nearest_key_frame:</pre>	450
<pre>best score: 344.000000 i: 413; nearest key frame:</pre>	450
best score: 422.000000 i: 414; nearest key frame:	450
best score: 430.000000 i: 415; nearest key frame:	
best score: 436.000000 i: 416; nearest_key_frame:	
best score: 434.000000 i: 417; nearest key frame:	
best score: 436.000000 i: 418; nearest_key_frame:	
best score: 452.000000 i: 419; nearest_key_frame:	
best score: 432.000000 i: 420; nearest key frame:	
best score: 407.000000	
i: 421; nearest_key_frame: best score: 379.000000	
i: 422; nearest_key_frame: best score: 381.000000	
<pre>i: 423 ; nearest_key_frame: best score: 399.000000</pre>	
<pre>i: 424 ; nearest_key_frame: best score: 389.000000</pre>	
<pre>i: 425 ; nearest_key_frame: best score: 411.000000</pre>	450
<pre>i: 426 ; nearest_key_frame: best score: 453.000000</pre>	450
<pre>i: 427 ; nearest_key_frame: best score: 438.000000</pre>	450
<pre>i: 428 ; nearest_key_frame: best score: 434.000000</pre>	450
<pre>i: 429 ; nearest_key_frame: best score: 405.000000</pre>	450
<pre>i: 430 ; nearest_key_frame: best score: 437.000000</pre>	450

<pre>i: 431 ; nearest_key_frame: best score: 456.000000</pre>	450
i: 432; nearest_key_frame: best score: 422.000000	450
<pre>i: 433 ; nearest_key_frame:</pre>	450
<pre>best score: 451.000000 i: 434 ; nearest_key_frame:</pre>	450
<pre>best score: 487.000000 i: 435; nearest_key_frame:</pre>	450
<pre>best score: 497.000000 i: 436 ; nearest_key_frame:</pre>	450
<pre>best score: 484.000000 i: 437; nearest_key_frame:</pre>	450
<pre>best score: 451.000000 i: 438; nearest key frame:</pre>	450
best score: 443.000000 i: 439; nearest key frame:	
best score: 502.000000 i: 440; nearest key frame:	
best score: 527.000000	
i: 441; nearest_key_frame: best score: 486.000000	
<pre>i: 442 ; nearest_key_frame: best score: 521.000000</pre>	450
<pre>i: 443 ; nearest_key_frame: best score: 532.000000</pre>	450
<pre>i: 444 ; nearest_key_frame: best score: 525.000000</pre>	450
<pre>i: 445 ; nearest_key_frame: best score: 532.000000</pre>	450
i: 446; nearest_key_frame: best score: 578.000000	450
<pre>i: 447 ; nearest_key_frame:</pre>	450
best score: 644.000000 i: 448; nearest_key_frame:	450
<pre>best score: 905.000000 i: 450; nearest_key_frame:</pre>	450
<pre>best score: 654.000000 i: 451 ; nearest_key_frame:</pre>	450
<pre>best score: 558.000000 i: 452 ; nearest_key_frame:</pre>	450
<pre>best score: 506.000000 i: 453; nearest_key_frame:</pre>	450
best score: 494.000000 i: 454; nearest key frame:	
best score: 444.000000 i: 455; nearest key frame:	
best score: 435.00000	
i: 456; nearest_key_frame: best score: 412.000000	
<pre>i: 457 ; nearest_key_frame: best score: 418.000000</pre>	
<pre>i: 458 ; nearest_key_frame: best score: 417.000000</pre>	450
<pre>i: 459 ; nearest_key_frame: best score: 418.000000</pre>	450
<pre>i: 460 ; nearest_key_frame: best score: 484.000000</pre>	450
i: 461; nearest_key_frame: best score: 463.000000	450
<pre>i: 462 ; nearest_key_frame:</pre>	450
<pre>best score: 480.000000 i: 463; nearest_key_frame:</pre>	450
<pre>best score: 464.000000 i: 464; nearest_key_frame:</pre>	450
best score: 421.000000	

<pre>i: 465 ; nearest_key_frame: best score: 396.000000</pre>	450
<pre>i: 466 ; nearest_key_frame:</pre>	450
<pre>best score: 404.000000 i: 467; nearest_key_frame:</pre>	450
<pre>best score: 392.000000 i: 468 ; nearest_key_frame:</pre>	450
<pre>best score: 416.000000 i: 469 ; nearest_key_frame:</pre>	450
<pre>best score: 357.000000 i: 470; nearest key frame:</pre>	450
best score: 390.000000 i: 471; nearest key frame:	450
best score: 380.000000 i: 472; nearest key frame:	
best score: 414.000000 i: 473; nearest key frame:	
best score: 420.000000	
<pre>i: 474 ; nearest_key_frame: best score: 391.000000</pre>	
<pre>i: 475 ; nearest_key_frame: best score: 368.000000</pre>	
<pre>i: 476 ; nearest_key_frame: best score: 361.000000</pre>	450
<pre>i: 477 ; nearest_key_frame: best score: 379.000000</pre>	450
<pre>i: 478 ; nearest_key_frame: best score: 361.000000</pre>	450
<pre>i: 479 ; nearest_key_frame: best score: 372.000000</pre>	450
<pre>i: 480 ; nearest_key_frame:</pre>	450
<pre>best score: 394.000000 i: 481; nearest_key_frame:</pre>	450
<pre>best score: 390.000000 i: 482; nearest_key_frame:</pre>	450
<pre>best score: 386.000000 i: 483 ; nearest_key_frame:</pre>	450
<pre>best score: 375.000000 i: 484 ; nearest_key_frame:</pre>	450
<pre>best score: 358.000000 i: 485 ; nearest_key_frame:</pre>	450
best score: 366.000000 i: 486; nearest_key_frame:	
best score: 390.000000 i: 487; nearest key frame:	
best score: 402.000000 i: 488; nearest key frame:	
best score: 368.000000	
i: 489; nearest_key_frame: best score: 377.000000	
<pre>i: 490 ; nearest_key_frame: best score: 379.000000</pre>	450
<pre>i: 491 ; nearest_key_frame: best score: 358.000000</pre>	450
<pre>i: 492 ; nearest_key_frame: best score: 362.000000</pre>	450
<pre>i: 493 ; nearest_key_frame: best score: 356.000000</pre>	450
i: 494; nearest_key_frame: best score: 356.000000	450
<pre>i: 495 ; nearest_key_frame:</pre>	450
best score: 362.000000 i: 496; nearest_key_frame:	450
<pre>best score: 362.000000 i: 497; nearest_key_frame:</pre>	450
best score: 351.000000	

<pre>i: 498 ; nearest_key_frame best score: 341.000000</pre>	450
i: 499 ; nearest_key_frame	: 450
<pre>best score: 319.000000 i: 500; nearest_key_frame</pre>	: 450
<pre>best score: 335.000000 i: 501; nearest_key_frame</pre>	: 450
<pre>best score: 335.000000 i: 502; nearest key frame</pre>	: 450
best score: 330.000000 i: 503; nearest key frame	
best score: 332.000000	
<pre>i: 504 ; nearest_key_frame best score: 316.000000</pre>	: 450
<pre>i: 505 ; nearest_key_frame best score: 318.000000</pre>	: 450
i: 506; nearest_key_frame best score: 349.000000	450
i: 507 ; nearest_key_frame	: 450
<pre>best score: 341.000000 i: 508; nearest_key_frame</pre>	: 450
best score: 336.000000 i: 509; nearest key frame	: 450
best score: 335.000000	
<pre>i: 510 ; nearest_key_frame best score: 343.000000</pre>	
<pre>i: 511 ; nearest_key_frame best score: 333.000000</pre>	: 450
<pre>i: 512 ; nearest_key_frame best score: 316.000000</pre>	: 450
i: 513 ; nearest_key_frame	: 450
<pre>best score: 351.000000 i: 514 ; nearest_key_frame</pre>	: 450
best score: 331.000000 i: 515; nearest key frame	: 450
<pre>best score: 322.000000 i: 516; nearest_key_frame</pre>	450
best score: 327.000000 i: 517; nearest key frame	
best score: 306.000000	
<pre>i: 518 ; nearest_key_frame best score: 302.000000</pre>	: 450
<pre>i: 519 ; nearest_key_frame best score: 317.000000</pre>	: 450
i: 520 ; nearest_key_frame	450
<pre>best score: 320.000000 i: 521; nearest_key_frame</pre>	: 450
<pre>best score: 339.000000 i: 522 ; nearest_key_frame</pre>	: 450
best score: 346.000000 i: 523; nearest key frame	: 450
best score: 340.000000	
i: 524; nearest_key_frame best score: 342.000000	
<pre>i: 525 ; nearest_key_frame best score: 315.000000</pre>	: 450
<pre>i: 526 ; nearest_key_frame best score: 307.000000</pre>	: 450
<pre>i: 527 ; nearest_key_frame best score: 299.000000</pre>	: 450
i: 528 ; nearest_key_frame	: 450
<pre>best score: 300.000000 i: 529 ; nearest_key_frame</pre>	: 450
best score: 309.000000 i: 530; nearest key frame	4 50
best score: 322.000000	- 3 0

<pre>i: 531 ; nearest_key_frame: best score: 300.000000</pre>	450
<pre>i: 532 ; nearest_key_frame:</pre>	450
<pre>best score: 323.000000 i: 533; nearest_key_frame:</pre>	450
<pre>best score: 322.000000 i: 534 ; nearest_key_frame:</pre>	450
<pre>best score: 348.000000 i: 535; nearest_key_frame:</pre>	450
<pre>best score: 344.000000 i: 536; nearest_key_frame:</pre>	450
<pre>best score: 311.000000 i: 537; nearest key frame:</pre>	450
best score: 273.000000 i: 538; nearest key frame:	450
best score: 284.000000 i: 539; nearest key frame:	
best score: 299.000000 i: 540; nearest key frame:	
best score: 241.000000	
<pre>i: 541 ; nearest_key_frame: best score: 260.000000</pre>	
<pre>i: 542 ; nearest_key_frame: best score: 260.000000</pre>	
<pre>i: 543 ; nearest_key_frame: best score: 272.000000</pre>	630
<pre>i: 544 ; nearest_key_frame: best score: 273.000000</pre>	630
<pre>i: 545 ; nearest_key_frame: best score: 289.000000</pre>	630
<pre>i: 546 ; nearest_key_frame: best score: 269.000000</pre>	630
i: 547; nearest_key_frame: best score: 248.000000	630
i: 548; nearest_key_frame: best score: 284.000000	630
<pre>i: 549 ; nearest_key_frame:</pre>	630
<pre>best score: 244.000000 i: 550; nearest_key_frame:</pre>	630
<pre>best score: 230.000000 i: 551 ; nearest_key_frame:</pre>	630
<pre>best score: 253.000000 i: 552 ; nearest_key_frame:</pre>	630
<pre>best score: 249.000000 i: 553 ; nearest_key_frame:</pre>	630
best score: 239.000000 i: 554; nearest key frame:	
best score: 240.000000 i: 555; nearest key frame:	
best score: 249.000000	
i: 556; nearest_key_frame: best score: 252.000000	
<pre>i: 557 ; nearest_key_frame: best score: 266.000000</pre>	
<pre>i: 558 ; nearest_key_frame: best score: 267.000000</pre>	
<pre>i: 559 ; nearest_key_frame: best score: 257.000000</pre>	630
<pre>i: 560 ; nearest_key_frame: best score: 283.000000</pre>	630
<pre>i: 561 ; nearest_key_frame: best score: 268.000000</pre>	630
i: 562; nearest_key_frame: best score: 271.000000	630
<pre>i: 563 ; nearest_key_frame:</pre>	630
best score: 264.000000	

best score: 269.000000 i: 565; nearest_key_frame: 630 best score: 262.000000 i: 566; nearest_key_frame: 630 best score: 257.000000 i: 567; nearest_key_frame: 630 best score: 258.000000 i: 568; nearest_key_frame: 630 best score: 269.000000 i: 569; nearest_key_frame: 630 best score: 240.000000 i: 570; nearest_key_frame: 630 best score: 273.000000 i: 571; nearest_key_frame: 630 best score: 258.000000 i: 572; nearest_key_frame: 630 best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 247.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630 best score: 261.000000
i: 566; nearest_key_frame: 630 best score: 257.000000 i: 567; nearest_key_frame: 630 best score: 258.000000 i: 568; nearest_key_frame: 630 best score: 269.000000 i: 569; nearest_key_frame: 630 best score: 240.000000 i: 570; nearest_key_frame: 630 best score: 273.000000 i: 571; nearest_key_frame: 630 best score: 258.000000 i: 572; nearest_key_frame: 630 best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000
best score: 257.000000 i: 567; nearest_key_frame: 630 best score: 258.000000 i: 568; nearest_key_frame: 630 best score: 269.000000 i: 569; nearest_key_frame: 630 best score: 240.000000 i: 570; nearest_key_frame: 630 best score: 273.000000 i: 571; nearest_key_frame: 630 best score: 258.000000 i: 572; nearest_key_frame: 630 best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000
best score: 258.000000 i: 568; nearest_key_frame: 630 best score: 269.000000 i: 569; nearest_key_frame: 630 best score: 240.000000 i: 570; nearest_key_frame: 630 best score: 273.000000 i: 571; nearest_key_frame: 630 best score: 258.000000 i: 572; nearest_key_frame: 630 best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630
i: 568; nearest_key_frame: 630 best score: 269.000000 i: 569; nearest_key_frame: 630 best score: 240.000000 i: 570; nearest_key_frame: 630 best score: 273.000000 i: 571; nearest_key_frame: 630 best score: 258.000000 i: 572; nearest_key_frame: 630 best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630
i: 569; nearest_key_frame: 630 best score: 240.000000 i: 570; nearest_key_frame: 630 best score: 273.000000 i: 571; nearest_key_frame: 630 best score: 258.000000 i: 572; nearest_key_frame: 630 best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000
best score: 240.000000 i: 570; nearest_key_frame: 630 best score: 273.000000 i: 571; nearest_key_frame: 630 best score: 258.000000 i: 572; nearest_key_frame: 630 best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000
best score: 273.000000 i: 571; nearest_key_frame: 630 best score: 258.000000 i: 572; nearest_key_frame: 630 best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 247.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.0000000 i: 580; nearest_key_frame: 630
i: 571; nearest_key_frame: 630 best score: 258.000000 i: 572; nearest_key_frame: 630 best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 247.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630
best score: 258.000000 i: 572; nearest_key_frame: 630 best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630
best score: 257.000000 i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630
i: 573; nearest_key_frame: 630 best score: 274.000000 i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630
i: 574; nearest_key_frame: 630 best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630
best score: 270.000000 i: 575; nearest_key_frame: 630 best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630
best score: 262.000000 i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630
<pre>i: 576; nearest_key_frame: 630 best score: 247.000000 i: 577; nearest_key_frame: 630 best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630</pre>
<pre>i: 577 ; nearest_key_frame: 630 best score: 261.000000 i: 578 ; nearest_key_frame: 630 best score: 279.000000 i: 579 ; nearest_key_frame: 630 best score: 261.000000 i: 580 ; nearest_key_frame: 630</pre>
<pre>best score: 261.000000 i: 578; nearest_key_frame: 630 best score: 279.000000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630</pre>
<pre>best score: 279.00000 i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630</pre>
<pre>i: 579; nearest_key_frame: 630 best score: 261.000000 i: 580; nearest_key_frame: 630</pre>
i: 580 ; nearest_key_frame: 630
i: 581; nearest_key_frame: 630 best score: 247.000000
i: 582 ; nearest_key_frame: 630
<pre>best score: 267.000000 i: 583; nearest_key_frame: 630</pre>
best score: 259.000000
i: 584; nearest_key_frame: 630 best score: 267.000000
i: 585; nearest_key_frame: 630
<pre>best score: 295.000000 i: 586; nearest_key_frame: 630</pre>
best score: 275.000000
i: 587; nearest_key_frame: 630 best score: 260.000000
i: 588; nearest_key_frame: 630 best score: 261.000000
i: 589 ; nearest_key_frame: 630
<pre>best score: 266.000000 i: 590 ; nearest_key_frame: 630</pre>
best score: 260.000000
i: 591; nearest_key_frame: 630 best score: 258.000000
i: 592 ; nearest_key_frame: 630
<pre>best score: 284.000000 i: 593; nearest_key_frame: 630</pre>
best score: 259.000000
i: 594; nearest_key_frame: 630 best score: 269.000000
i: 595; nearest_key_frame: 630
<pre>best score: 262.000000 i: 596; nearest_key_frame: 630</pre>
best score: 285.000000

<pre>i: 597 ; nearest_key_frame: best score: 276.000000</pre>	630
<pre>i: 598 ; nearest_key_frame: best score: 251.000000</pre>	630
i: 599; nearest_key_frame: best score: 246.000000	630
i: 600; nearest_key_frame: best score: 284.000000	630
<pre>i: 601 ; nearest_key_frame:</pre>	630
<pre>best score: 279.000000 i: 602; nearest_key_frame:</pre>	630
<pre>best score: 283.000000 i: 603; nearest_key_frame:</pre>	630
<pre>best score: 274.000000 i: 604; nearest_key_frame:</pre>	630
best score: 281.000000 i: 605; nearest key frame:	630
best score: 311.000000 i: 606; nearest key frame:	
best score: 335.000000 i: 607; nearest key frame:	
best score: 358.000000 i: 608; nearest key frame:	
best score: 345.000000	
<pre>i: 609; nearest_key_frame: best score: 329.000000</pre>	
<pre>i: 610 ; nearest_key_frame: best score: 354.000000</pre>	
<pre>i: 611 ; nearest_key_frame: best score: 357.000000</pre>	
<pre>i: 612 ; nearest_key_frame: best score: 325.000000</pre>	630
<pre>i: 613 ; nearest_key_frame: best score: 347.000000</pre>	630
<pre>i: 614 ; nearest_key_frame: best score: 351.000000</pre>	630
<pre>i: 615 ; nearest_key_frame: best score: 376.000000</pre>	630
i: 616; nearest_key_frame: best score: 441.000000	630
i: 617; nearest_key_frame: best score: 420.000000	630
<pre>i: 618 ; nearest_key_frame:</pre>	630
best score: 417.000000 i: 619; nearest_key_frame:	630
<pre>best score: 370.000000 i: 620 ; nearest_key_frame:</pre>	630
<pre>best score: 385.000000 i: 621 ; nearest_key_frame:</pre>	630
<pre>best score: 420.000000 i: 622 ; nearest_key_frame:</pre>	630
<pre>best score: 515.000000 i: 623 ; nearest_key_frame:</pre>	630
best score: 472.000000 i: 624; nearest key frame:	630
best score: 480.000000 i: 625; nearest key frame:	630
best score: 548.000000 i: 626; nearest key frame:	630
best score: 643.000000 i: 627; nearest key frame:	
best score: 730.000000 i: 628; nearest key frame:	
best score: 923.000000	
<pre>i: 630 ; nearest_key_frame: best score: 774.000000</pre>	630

_ *_	30
best score: 586.000000 i: 632; nearest key frame: 6	30
best score: 538.000000	00
<u> </u>	30
<pre>best score: 489.000000 i: 634 ; nearest_key_frame: 6.</pre>	30
best score: 465.000000	
	30
<pre>best score: 432.000000 i: 636; nearest_key_frame: 66</pre>	30
best score: 414.000000	
i: 637; nearest_key_frame: 6. best score: 394.000000	30
	30
best score: 383.000000	
i: 639; nearest_key_frame: 6. best score: 348.000000	30
	30
best score: 385.000000	
i: 641; nearest_key_frame: 6. best score: 490.000000	30
	30
best score: 345.000000	
i: 643; nearest_key_frame: 6. best score: 352.000000	30
	30
best score: 329.000000	
i: 645; nearest_key_frame: 6. best score: 314.000000	30
	30
best score: 383.000000	
i: 647; nearest_key_frame: 6. best score: 308.000000	30
i: 648 ; nearest_key_frame: 6	30
best score: 322.000000	2.0
i: 649; nearest_key_frame: 6. best score: 299.000000	30
i: 650 ; nearest_key_frame: 65	30
best score: 313.000000	2 ∩
i: 651; nearest_key_frame: 6. best score: 295.000000	30
i: 652 ; nearest_key_frame: 6	30
<pre>best score: 293.000000 i: 653; nearest_key_frame: 6.</pre>	30
best score: 298.000000	50
<u> </u>	30
<pre>best score: 286.000000 i: 655; nearest_key_frame: 6.</pre>	30
best score: 283.000000	
<u> </u>	30
<pre>best score: 276.000000 i: 657; nearest_key_frame: 6.</pre>	30
best score: 280.000000	
<u> </u>	30
<pre>best score: 258.000000 i: 659; nearest_key_frame: 6.</pre>	30
best score: 284.000000	
i: 660; nearest_key_frame: 6. best score: 296.000000	30
	30
best score: 270.000000	2.0
i: 662; nearest_key_frame: 6. best score: 277.000000	30
	30
best score: 272.000000	

i: 664; nearest_key_frame: 630)
best score: 274.000000 i: 665; nearest key frame: 630)
best score: 237.000000	
i: 666; nearest_key_frame: 630 best score: 272.000000)
i: 667 ; nearest_key_frame: 630)
<pre>best score: 254.000000 i: 668; nearest_key_frame: 630</pre>)
best score: 281.000000	
i: 669; nearest_key_frame: 630 best score: 283.000000)
i: 670 ; nearest_key_frame: 630)
<pre>best score: 273.000000 i: 671; nearest_key_frame: 630</pre>	١
best score: 255.00000	,
i: 672; nearest_key_frame: 630)
best score: 261.000000 i: 673; nearest key frame: 630)
best score: 261.000000	,
i: 674; nearest_key_frame: 630 best score: 237.000000)
i: 675 ; nearest_key_frame: 630)
<pre>best score: 263.000000 i: 676; nearest_key_frame: 630</pre>)
best score: 239.000000	
i: 677; nearest_key_frame: 630 best score: 253.000000)
i: 678 ; nearest_key_frame: 630)
<pre>best score: 275.000000 i: 679; nearest_key_frame: 630</pre>)
best score: 245.000000	
i: 680; nearest_key_frame: 630 best score: 259.000000)
i: 681 ; nearest_key_frame: 630)
<pre>best score: 255.000000 i: 682; nearest_key_frame: 630</pre>)
best score: 272.000000	
i: 683; nearest_key_frame: 630 best score: 266.000000)
i: 684 ; nearest_key_frame: 630)
best score: 250.000000	1
i: 685; nearest_key_frame: 630 best score: 254.000000)
i: 686; nearest_key_frame: 630)
<pre>best score: 232.000000 i: 687; nearest_key_frame: 630</pre>)
best score: 268.000000	`
i: 688; nearest_key_frame: 630 best score: 232.000000	J
i: 689; nearest_key_frame: 630)
<pre>best score: 229.000000 i: 690; nearest_key_frame: 630</pre>)
best score: 230.000000	
i: 691; nearest_key_frame: 630 best score: 227.000000	J
i: 692 ; nearest_key_frame: 630)
<pre>best score: 224.000000 i: 693; nearest_key_frame: 630</pre>)
best score: 213.000000	
i: 694; nearest_key_frame: 630 best score: 230.000000	J
i: 695 ; nearest_key_frame: 630)
<pre>best score: 228.000000 i: 696; nearest_key_frame: 630</pre>)
best score: 232.000000	

	630
<pre>best score: 215.000000 i: 698; nearest_key_frame: 6</pre>	630
<pre>best score: 233.000000 i: 699; nearest_key_frame: 6</pre>	630
best score: 235.000000	330
i: 700; nearest_key_frame: 6 best score: 241.000000	530
<pre>i: 701 ; nearest_key_frame: 6</pre>	630
best score: 249.000000 i: 702; nearest key frame:	630
best score: 234.000000	
i: 703; nearest_key_frame: 6 best score: 235.000000	530
	630
i: 705 ; nearest_key_frame: 6	630
<pre>best score: 226.000000 i: 706; nearest_key_frame: 6</pre>	630
best score: 235.000000	
i: 707; nearest_key_frame: 6 best score: 232.000000	630
i: 708; nearest_key_frame:	630
<pre>best score: 219.000000 i: 709; nearest_key_frame: 6</pre>	630
best score: 230.000000	5 2 A
i: 710; nearest_key_frame: 6 best score: 229.000000	630
<pre>i: 711 ; nearest_key_frame: 6 best score: 239.000000</pre>	630
i: 712 ; nearest_key_frame:	630
<pre>best score: 223.000000 i: 713; nearest_key_frame: 6</pre>	630
best score: 225.000000	
i: 714; nearest_key_frame: 6 best score: 222.000000	530
<pre>i: 715 ; nearest_key_frame: 6 best score: 231.000000</pre>	630
i: 716 ; nearest_key_frame:	630
best score: 219.000000 i: 717; nearest key frame: (630
best score: 212.000000	
i: 718; nearest_key_frame: 6 best score: 213.000000	530
<pre>i: 719 ; nearest_key_frame: 6 best score: 205.000000</pre>	630
i: 720 ; nearest_key_frame: 8	310
<pre>best score: 224.000000 i: 721; nearest_key_frame: {</pre>	310
best score: 258.000000	
i: 722; nearest_key_frame: 8 best score: 235.000000	310
i: 723 ; nearest_key_frame: 8	310
<pre>best score: 240.000000 i: 724; nearest_key_frame: {</pre>	310
<pre>best score: 249.000000 i: 725; nearest_key_frame: {</pre>	310
best score: 247.000000	
i: 726; nearest_key_frame: 8 best score: 230.000000	310
i: 727 ; nearest_key_frame: 8	310
	310
<pre>best score: 265.000000 i: 729 ; nearest_key_frame: {</pre>	310
best score: 251.000000	

i: 730 ; nearest_key_frame:	810
<pre>best score: 264.000000 i: 731; nearest_key_frame:</pre>	810
<pre>best score: 258.000000 i: 732 ; nearest_key_frame:</pre>	810
best score: 262.000000	
<pre>i: 733 ; nearest_key_frame: best score: 271.000000</pre>	810
<pre>i: 734 ; nearest_key_frame:</pre>	810
<pre>best score: 285.000000 i: 735; nearest_key_frame:</pre>	810
best score: 230.000000	
<pre>i: 736; nearest_key_frame: best score: 277.000000</pre>	810
<pre>i: 737 ; nearest_key_frame: best score: 273.000000</pre>	810
<pre>i: 738 ; nearest_key_frame:</pre>	810
<pre>best score: 257.000000 i: 739 ; nearest_key_frame:</pre>	810
best score: 252.000000	
<pre>i: 740 ; nearest_key_frame: best score: 240.000000</pre>	010
<pre>i: 741 ; nearest_key_frame: best score: 257.000000</pre>	810
<pre>i: 742 ; nearest_key_frame:</pre>	810
<pre>best score: 275.000000 i: 743; nearest_key_frame:</pre>	810
best score: 281.000000	
i: 744; nearest_key_frame: best score: 314.000000	
<pre>i: 745 ; nearest_key_frame: best score: 290.000000</pre>	810
<pre>i: 746 ; nearest_key_frame:</pre>	810
<pre>best score: 266.000000 i: 747; nearest_key_frame:</pre>	810
<pre>best score: 258.000000 i: 748 ; nearest_key_frame:</pre>	810
best score: 282.000000	
<pre>i: 749 ; nearest_key_frame: best score: 248.000000</pre>	810
<pre>i: 750 ; nearest_key_frame:</pre>	810
<pre>best score: 264.000000 i: 751; nearest_key_frame:</pre>	810
<pre>best score: 226.000000 i: 752; nearest_key_frame:</pre>	810
best score: 252.000000	
<pre>i: 753; nearest_key_frame: best score: 297.000000</pre>	810
<pre>i: 754 ; nearest_key_frame:</pre>	810
<pre>best score: 247.000000 i: 755; nearest_key_frame:</pre>	810
<pre>best score: 260.000000 i: 756; nearest_key_frame:</pre>	810
best score: 281.000000	
<pre>i: 757 ; nearest_key_frame: best score: 273.000000</pre>	810
<pre>i: 758 ; nearest_key_frame: best score: 284.000000</pre>	810
<pre>i: 759 ; nearest_key_frame:</pre>	810
<pre>best score: 272.000000 i: 760 ; nearest_key_frame:</pre>	810
best score: 270.000000	
<pre>i: 761 ; nearest_key_frame: best score: 253.000000</pre>	810
<pre>i: 762 ; nearest_key_frame: best score: 290.000000</pre>	810
2000 00010. 200.000000	

<pre>i: 763 ; nearest_key_frame: best score: 323.000000</pre>	810
<pre>i: 764 ; nearest_key_frame: best score: 286.000000</pre>	810
<pre>i: 765 ; nearest_key_frame: best score: 310.000000</pre>	810
i: 766; nearest_key_frame: best score: 292.000000	810
i: 767; nearest_key_frame: best score: 311.000000	810
i: 768; nearest_key_frame: best score: 316.000000	810
<pre>i: 769 ; nearest_key_frame:</pre>	810
<pre>best score: 312.000000 i: 770 ; nearest_key_frame:</pre>	810
<pre>best score: 300.000000 i: 771 ; nearest_key_frame:</pre>	810
<pre>best score: 351.000000 i: 772; nearest_key_frame:</pre>	810
<pre>best score: 340.000000 i: 773; nearest_key_frame:</pre>	810
<pre>best score: 346.000000 i: 774; nearest_key_frame:</pre>	810
<pre>best score: 313.000000 i: 775; nearest_key_frame:</pre>	810
<pre>best score: 302.000000 i: 776; nearest_key_frame:</pre>	810
<pre>best score: 315.000000 i: 777; nearest_key_frame:</pre>	810
best score: 361.000000 i: 778; nearest key frame:	810
best score: 358.000000 i: 779; nearest key frame:	
best score: 361.000000 i: 780; nearest key frame:	
<pre>best score: 371.000000 i: 781; nearest_key_frame:</pre>	
best score: 324.000000 i: 782; nearest key frame:	
best score: 346.000000 i: 783; nearest_key_frame:	
best score: 330.000000 i: 784; nearest key frame:	810
best score: 325.000000	
i: 785; nearest_key_frame: best score: 339.000000	810
i: 786; nearest_key_frame: best score: 331.000000	810
i: 787; nearest_key_frame: best score: 339.000000	810
<pre>i: 788 ; nearest_key_frame: best score: 357.000000</pre>	810
<pre>i: 789 ; nearest_key_frame: best score: 341.000000</pre>	810
<pre>i: 790 ; nearest_key_frame: best score: 347.000000</pre>	810
<pre>i: 791 ; nearest_key_frame: best score: 335.000000</pre>	810
<pre>i: 792 ; nearest_key_frame: best score: 336.000000</pre>	810
<pre>i: 793 ; nearest_key_frame: best score: 346.000000</pre>	810
<pre>i: 794 ; nearest_key_frame: best score: 355.000000</pre>	810
i: 795; nearest_key_frame: best score: 417.000000	810

<pre>i: 796 ; nearest_key_frame: best score: 415.000000</pre>	810
i: 797; nearest_key_frame: best score: 347.000000	810
<pre>i: 798 ; nearest_key_frame:</pre>	810
<pre>best score: 374.000000 i: 799; nearest_key_frame:</pre>	810
<pre>best score: 368.000000 i: 800; nearest_key_frame:</pre>	810
<pre>best score: 389.000000 i: 801; nearest_key_frame:</pre>	810
<pre>best score: 390.000000 i: 802; nearest key frame:</pre>	810
best score: 412.000000 i: 803; nearest key frame:	
best score: 431.000000 i: 804; nearest key frame:	
best score: 439.000000 i: 805; nearest key frame:	
best score: 528.000000	
<pre>i: 806 ; nearest_key_frame: best score: 622.000000</pre>	
<pre>i: 807; nearest_key_frame: best score: 802.000000</pre>	810
<pre>i: 808 ; nearest_key_frame: best score: 1048.000000</pre>	810
<pre>i: 810 ; nearest_key_frame: best score: 1079.000000</pre>	810
<pre>i: 811 ; nearest_key_frame: best score: 600.000000</pre>	810
i: 812; nearest_key_frame: best score: 547.000000	810
<pre>i: 813 ; nearest_key_frame:</pre>	810
<pre>best score: 465.000000 i: 814; nearest_key_frame:</pre>	810
<pre>best score: 439.000000 i: 815 ; nearest_key_frame:</pre>	810
<pre>best score: 399.000000 i: 816; nearest_key_frame:</pre>	810
<pre>best score: 365.000000 i: 817; nearest key frame:</pre>	810
best score: 348.000000 i: 818; nearest key frame:	810
best score: 357.000000 i: 819; nearest key frame:	810
best score: 328.000000 i: 820; nearest key frame:	810
best score: 321.000000	
<pre>i: 821 ; nearest_key_frame: best score: 333.000000</pre>	810
<pre>i: 822 ; nearest_key_frame: best score: 319.000000</pre>	810
<pre>i: 823 ; nearest_key_frame: best score: 324.000000</pre>	810
<pre>i: 824 ; nearest_key_frame: best score: 309.000000</pre>	810
<pre>i: 825 ; nearest_key_frame: best score: 305.000000</pre>	810
<pre>i: 826 ; nearest_key_frame: best score: 328.000000</pre>	810
i: 827; nearest_key_frame: best score: 333.000000	810
<pre>i: 828 ; nearest_key_frame:</pre>	810
best score: 334.000000 i: 829; nearest_key_frame:	810
best score: 306.000000	

i: 830 ; nearest_key_frame:	810
best score: 296.000000 i: 831; nearest key frame:	810
best score: 294.000000	
<pre>i: 832 ; nearest_key_frame: best score: 284.000000</pre>	810
<pre>i: 833 ; nearest_key_frame:</pre>	810
best score: 286.000000 i: 834; nearest key frame:	810
best score: 312.000000	010
<pre>i: 835 ; nearest_key_frame: best score: 304.000000</pre>	810
i: 836; nearest_key_frame:	810
best score: 304.000000	010
<pre>i: 837 ; nearest_key_frame: best score: 274.000000</pre>	810
<pre>i: 838 ; nearest_key_frame:</pre>	810
<pre>best score: 269.000000 i: 839; nearest_key_frame:</pre>	810
best score: 278.000000	
<pre>i: 840 ; nearest_key_frame: best score: 284.000000</pre>	810
<pre>i: 841 ; nearest_key_frame:</pre>	810
<pre>best score: 266.000000 i: 842; nearest_key_frame:</pre>	810
best score: 263.000000	010
<pre>i: 843 ; nearest_key_frame: best score: 250.000000</pre>	810
<pre>i: 844 ; nearest_key_frame:</pre>	810
<pre>best score: 261.000000 i: 845; nearest_key_frame:</pre>	910
best score: 269.000000	010
i: 846; nearest_key_frame:	810
<pre>best score: 293.000000 i: 847; nearest_key_frame:</pre>	810
best score: 278.000000	010
<pre>i: 848 ; nearest_key_frame: best score: 271.000000</pre>	810
<pre>i: 849 ; nearest_key_frame:</pre>	810
<pre>best score: 261.000000 i: 850; nearest_key_frame:</pre>	810
best score: 269.000000	
<pre>i: 851 ; nearest_key_frame: best score: 258.000000</pre>	810
<pre>i: 852 ; nearest_key_frame:</pre>	810
<pre>best score: 264.000000 i: 853; nearest_key_frame:</pre>	810
best score: 253.000000	
<pre>i: 854 ; nearest_key_frame: best score: 254.000000</pre>	810
<pre>i: 855 ; nearest_key_frame:</pre>	810
<pre>best score: 252.000000 i: 856; nearest_key_frame:</pre>	810
best score: 262.000000	010
<pre>i: 857 ; nearest_key_frame: best score: 274.000000</pre>	810
i: 858; nearest_key_frame:	810
best score: 248.000000	Q1 ∩
<pre>i: 859 ; nearest_key_frame: best score: 264.000000</pre>	810
i: 860; nearest_key_frame:	810
<pre>best score: 255.000000 i: 861; nearest_key_frame:</pre>	810
best score: 262.000000	010
<pre>i: 862 ; nearest_key_frame: best score: 247.000000</pre>	810

<pre>i: 863 ; nearest_key_frame: best score: 255.000000</pre>	810
i: 864; nearest_key_frame: best score: 277.000000	810
<pre>i: 865 ; nearest_key_frame:</pre>	810
<pre>best score: 268.000000 i: 866; nearest_key_frame:</pre>	810
best score: 264.000000 i: 867; nearest_key_frame:	810
<pre>best score: 272.000000 i: 868 ; nearest_key_frame:</pre>	810
<pre>best score: 270.000000 i: 869; nearest key frame:</pre>	810
best score: 271.000000 i: 870; nearest key frame:	
best score: 272.000000 i: 871; nearest key frame:	
best score: 235.00000	
i: 872; nearest_key_frame: best score: 250.000000	
<pre>i: 873 ; nearest_key_frame: best score: 263.000000</pre>	
<pre>i: 874 ; nearest_key_frame: best score: 251.000000</pre>	810
<pre>i: 875 ; nearest_key_frame: best score: 263.000000</pre>	810
<pre>i: 876 ; nearest_key_frame: best score: 271.000000</pre>	810
i: 877; nearest_key_frame: best score: 272.000000	810
<pre>i: 878 ; nearest_key_frame:</pre>	810
<pre>best score: 263.000000 i: 879; nearest_key_frame:</pre>	810
<pre>best score: 256.000000 i: 880 ; nearest_key_frame:</pre>	810
<pre>best score: 249.000000 i: 881 ; nearest_key_frame:</pre>	810
<pre>best score: 268.000000 i: 882 ; nearest_key_frame:</pre>	
<pre>best score: 240.000000 i: 883; nearest key frame:</pre>	810
best score: 245.000000 i: 884; nearest key frame:	810
best score: 253.000000 i: 885; nearest key frame:	810
best score: 213.000000 i: 886; nearest key frame:	810
best score: 220.000000	
i: 887; nearest_key_frame: best score: 221.000000	810
<pre>i: 888 ; nearest_key_frame: best score: 231.000000</pre>	810
<pre>i: 889 ; nearest_key_frame: best score: 228.000000</pre>	810
<pre>i: 890 ; nearest_key_frame: best score: 214.000000</pre>	810
<pre>i: 891 ; nearest_key_frame: best score: 232.000000</pre>	810
i: 892; nearest_key_frame: best score: 222.000000	810
<pre>i: 893 ; nearest_key_frame:</pre>	810
<pre>best score: 223.000000 i: 894; nearest_key_frame:</pre>	810
<pre>best score: 250.000000 i: 895; nearest_key_frame:</pre>	810
best score: 234.000000	

```
best score: 237.000000
         i: 897; nearest key frame: 810
         best score: 240.000000
         i: 898 ; nearest key frame: 810
         best score: 205.000000
         i: 899; nearest key frame: 810
         best score: 220.000000
In [15]: # warp the frames and save to output
         projectedWidth = 2000
         projectedHeight = 800
         Tr = np.array([[1, 0, 700], [0, 1, 120], [0, 0, 1]], dtype=np.float32)
         output dir = 'images/output/frames'
         if not os.path.exists(output dir):
             os.makedirs(output dir)
         for i in range(frameCount):
             warped frame = cv2.warpPerspective(frames[i], np.dot(Tr, all homographies[i]), (proj
             cv2.imwrite(os.path.join(output dir, 'f{num}.jpg'.format(num=str(i+1).zfill(4))), wa
In [17]: # make it video
             ffmpeq
             .input('images/output/frames/f%04d.jpg', framerate=30)
             .output('panorama.mp4')
             .run()
         ffmpeg version 4.2.2 Copyright (c) 2000-2019 the FFmpeg developers
          built with gcc 7.3.0 (crosstool-NG 1.23.0.449-a04d0)
           configuration: --prefix=/home/baoyu/anaconda3/envs/dinov2 --cc=/tmp/build/80754af9/ffm
         peg 1587154242452/ build env/bin/x86 64-conda cos6-linux-gnu-cc --disable-doc --enable-a
         vresample --enable-gmp --enable-hardcoded-tables --enable-libfreetype --enable-libvpx --
         enable-pthreads --enable-libopus --enable-postproc --enable-pic --enable-pthreads --enab
         le-shared --enable-static --enable-version3 --enable-zlib --enable-libmp3lame --disable-
         nonfree --enable-gpl --enable-gnutls --disable-openssl --enable-libopenh264 --enable-lib
         x264
           libavutil
                        56. 31.100 / 56. 31.100
                       58. 54.100 / 58. 54.100
           libavcodec
           libavformat 58. 29.100 / 58. 29.100
           libavdevice 58. 8.100 / 58. 8.100
           libavfilter
                         7. 57.100 / 7. 57.100
           libavresample 4. 0. 0 / 4. 0. 0
           libswscale 5. 5.100 / 5. 5.100
           libswresample 3. 5.100 / 3. 5.100
           libpostproc 55. 5.100 / 55. 5.100
         Input #0, image2, from 'images/output/frames/f%04d.jpg':
           Duration: 00:00:30.00, start: 0.000000, bitrate: N/A
             Stream #0:0: Video: mjpeg (Baseline), yuvj420p(pc, bt470bg/unknown/unknown), 2000x80
         0 [SAR 1:1 DAR 5:2], 30 fps, 30 tbr, 30 tbn, 30 tbc
         Stream mapping:
          Stream #0:0 -> #0:0 (mjpeg (native) -> h264 (libx264))
         Press [q] to stop, [?] for help
         [libx264 @ 0x55fcf8aa8300] using SAR=1/1
         [libx264 @ 0x55fcf8aa8300] using cpu capabilities: MMX2 SSE2Fast SSSE3 SSE4.2 AVX FMA3 B
         MI2 AVX2
         [libx264 @ 0x55fcf8aa8300] profile High, level 4.0, 4:2:0, 8-bit
         [libx264 @ 0x55fcf8aa8300] 264 - core 157 - H.264/MPEG-4 AVC codec - Copyleft 2003-2018
         - http://www.videolan.org/x264.html - options: cabac=1 ref=3 deblock=1:0:0 analyse=0x3:0
         x113 me=hex subme=7 psy=1 psy rd=1.00:0.00 mixed ref=1 me range=16 chroma me=1 trellis=1
         8x8dct=1 cqm=0 deadzone=21,11 fast pskip=1 chroma qp offset=-2 threads=18 lookahead thre
         ads=3 sliced threads=0 nr=0 decimate=1 interlaced=0 bluray compat=0 constrained intra=0
         bframes=3 b pyramid=2 b adapt=1 b bias=0 direct=1 weightb=1 open gop=0 weightp=2 keyint=
```

i: 896; nearest key frame: 810

```
250 keyint_min=25 scenecut=40 intra_refresh=0 rc_lookahead=40 rc=crf mbtree=1 crf=23.0 q
comp=0.60 qpmin=0 qpmax=69 qpstep=4 ip ratio=1.40 aq=1:1.00
Output #0, mp4, to 'panorama.mp4':
 Metadata:
   encoder
                  : Lavf58.29.100
   Stream #0:0: Video: h264 (libx264) (avc1 / 0x31637661), yuvj420p(pc), 2000x800 [SAR
1:1 DAR 5:2], q=-1--1, 30 fps, 15360 tbn, 30 tbc
   Metadata:
                    : Lavc58.54.100 libx264
     encoder
   Side data:
     cpb: bitrate max/min/avg: 0/0/0 buffer size: 0 vbv delay: -1
frame= 900 fps=227 q=-1.0 Lsize= 9256kB time=00:00:29.90 bitrate=2536.0kbits/s speed
video:9245kB audio:0kB subtitle:0kB other streams:0kB global headers:0kB muxing overhea
d: 0.124479%
[libx264 @ 0x55fcf8aa8300] frame I:4
                                      Avg QP:18.89 size: 36522
[libx264 @ 0x55fcf8aa8300] frame P:227 Avg QP:24.47 size: 18752
[libx264 @ 0x55fcf8aa8300] frame B:669 Avg QP:28.67 size: 7568
[libx264 @ 0x55fcf8aa8300] consecutive B-frames: 0.9% 0.0% 0.0% 99.1%
[libx264 @ 0x55fcf8aa8300] mb I I16..4: 33.7% 60.7% 5.6%
[libx264 @ 0x55fcf8aa8300] mb P I16..4: 0.2% 1.4% 0.6% P16..4: 5.2% 5.5% 2.7%
0.0% 0.0% skip:84.4%
[libx264 @ 0x55fcf8aa8300] mb B I16..4: 0.1% 0.1% 0.0% B16..8: 7.8% 3.3% 0.8% d
irect: 1.9% skip:86.1% L0:38.9% L1:34.5% BI:26.7%
[libx264 @ 0x55fcf8aa8300] 8x8 transform intra:61.6% inter:54.9%
[libx264 @ 0x55fcf8aa8300] coded y,uvDC,uvAC intra: 41.0% 36.3% 17.2% inter: 8.2% 4.5%
0.3%
[libx264 @ 0x55fcf8aa8300] i16 v,h,dc,p: 72% 19% 6% 3%
[libx264 @ 0x55fcf8aa8300] i8 v,h,dc,ddl,ddr,vr,hd,vl,hu: 25% 19% 35% 2% 4% 3% 6%
[libx264 @ 0x55fcf8aa8300] i4 v,h,dc,ddl,ddr,vr,hd,vl,hu: 20% 28% 15% 3% 6% 6% 9%
[libx264 @ 0x55fcf8aa8300] i8c dc,h,v,p: 73% 16% 9% 2%
[libx264 @ 0x55fcf8aa8300] Weighted P-Frames: Y:4.8% UV:1.3%
[libx264 @ 0x55fcf8aa8300] ref P LO: 41.3% 12.4% 33.0% 12.6% 0.7%
[libx264 @ 0x55fcf8aa8300] ref B LO: 80.7% 15.4% 3.9%
[libx264 @ 0x55fcf8aa8300] ref B L1: 95.0% 5.0%
[libx264 @ 0x55fcf8aa8300] kb/s:2524.26
(None, None)
```

Part 4: Create background panorama

Out[17]:

Create a background panorama based on the result from Part 3.

```
In [47]: # TO DO part 4
# read all the images
import os
    transformed_dir_frames = 'images/output/frames'
    transformed_filenames = []
    transformed_filesinfo = os.scandir(transformed_dir_frames)

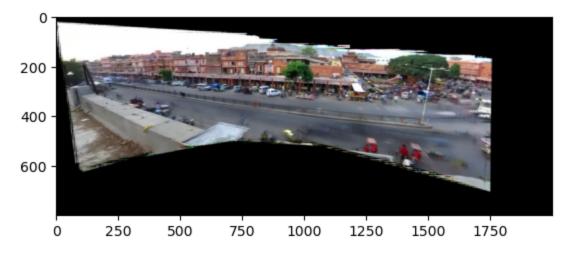
transformed_filenames = [f.path for f in transformed_filesinfo if f.name.endswith(".jpg"
    transformed_filenames.sort(key=lambda f: int(''.join(filter(str.isdigit, f))))

transformed_frameCount = len(transformed_filenames)
    transformed_frameHeight, transformed_frameWidth, transformed_frameChannels = cv2.imread(
    transformed_frames = np.zeros((transformed_frameCount, transformed_frameHeight, transformed_frameCount, transformed_frameHeight, transformed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSormed_frameSo
```

```
In [48]: # construct the background panorama
bg_panorama = np.zeros((transformed_frameHeight, transformed_frameWidth, 3), dtype='uint
```

```
for i in range(transformed_frameHeight):
    for j in range(transformed_frameWidth):
        pixel_values = transformed_frames[:,i,j,:].astype(np.int64)
        for c in range(3):
        # find the non-zero pixel values
            non_zero_pixel_values = pixel_values[:,c][pixel_values[:,c] > 0]
        # take the median of non-zero pixel values as bg pixel value
        if len(non_zero_pixel_values) > 0:
            bg_panorama[i,j,c] = np.median(non_zero_pixel_values)
```

```
In [49]: plt.figure()
  plt.imshow(bg_panorama[:,:,[2,1,0]])
  plt.show()
```



Part 5: Create background movie

In [50]: # TO DO part 5

Generate a movie that looks like the input movie but shows only background pixels. For each frame of the movie, you need to estimate a projection from the panorama to that frame. Your solution can use the background image you created in Part 4 and the per-frame homographies you created in Part 3.

```
# load the homographies in Part 3
         all homographies = np.load('all homographies.npy')
         # create the background frames dir
         output dir = "images/output/bg frames"
         if not os.path.exists(output dir):
             os.makedirs(output dir)
         # generate the bg frames
         video frameHeight, video frameWidth, = cv2.imread("./images/input/frames/f0450.jpg").s
         for i in range(transformed frameCount):
             H inv = np.linalg.inv(np.dot(Tr,all homographies[i]))
             warped frame = cv2.warpPerspective(bg panorama, H inv, (video frameWidth, video fram
             cv2.imwrite(os.path.join(output dir, f"f{str(i+1).zfill(4)}.jpg"), warped frame)
         # make it video
In [37]:
             .input('images/output/bg frames/f%04d.jpg', framerate=30)
             .output('bg panorama.mp4')
             .run()
         ffmpeg version 4.2.2 Copyright (c) 2000-2019 the FFmpeg developers
           built with clang version 12.0.0
```

```
configuration: --prefix=/Users/ktietz/demo/mc3/conda-bld/ffmpeg 1628925491858/ h env p
lacehold placehold placehold placehold placehold placehold placehold placehold
placehold placehold placehold placehold placehold placehold placehold placehold
ld placehold plac --cc=arm64-apple-darwin20.0.0-clang --disable-doc --enable-avresample
--enable-gmp --enable-hardcoded-tables --enable-libfreetype --enable-libvpx --enable-pth
reads --enable-libopus --enable-postproc --enable-pic --enable-pthreads --enable-shared
--enable-static --enable-version3 --enable-zlib --enable-libmp3lame --disable-nonfree --
enable-gpl --enable-gnutls --disable-openssl --enable-libopenh264 --enable-libx264
 libavutil 56. 31.100 / 56. 31.100
 libavcodec
              58. 54.100 / 58. 54.100
 libavformat 58. 29.100 / 58. 29.100
 libavdevice 58. 8.100 / 58. 8.100
 libavfilter 7. 57.100 / 7. 57.100
 libavresample 4. 0. 0 / 4. 0. 0
 libswscale 5. 5.100 / 5. 5.100
 libswresample 3. 5.100 / 3. 5.100
 libpostproc 55. 5.100 / 55. 5.100
Input #0, image2, from 'images/output/bg frames/f%04d.jpg':
 Duration: 00:00:30.00, start: 0.000000, bitrate: N/A
   Stream #0:0: Video: mjpeg (Baseline), yuvj420p(pc, bt470bg/unknown/unknown), 480x360
[SAR 1:1 DAR 4:3], 30 fps, 30 tbr, 30 tbn, 30 tbc
Stream mapping:
 Stream #0:0 -> #0:0 (mjpeg (native) -> h264 (libx264))
Press [q] to stop, [?] for help
[libx264 @ 0x12680e400] using SAR=1/1
[libx264 @ 0x12680e400] using cpu capabilities: ARMv8 NEON
[libx264 @ 0x12680e400] profile High, level 3.0
[libx264 @ 0x12680e400] 264 - core 152 - H.264/MPEG-4 AVC codec - Copyleft 2003-2017 - h
ttp://www.videolan.org/x264.html - options: cabac=1 ref=3 deblock=1:0:0 analyse=0x3:0x11
3 me=hex subme=7 psy=1 psy rd=1.00:0.00 mixed ref=1 me range=16 chroma me=1 trellis=1 8x
8dct=1 cqm=0 deadzone=21,11 fast pskip=1 chroma qp offset=-2 threads=11 lookahead thread
s=1 sliced threads=0 nr=0 decimate=1 interlaced=0 bluray compat=0 constrained intra=0 bf
rames=3 b pyramid=2 b adapt=1 b bias=0 direct=1 weightb=1 open gop=0 weightp=2 keyint=25
0 keyint min=25 scenecut=40 intra refresh=0 rc lookahead=40 rc=crf mbtree=1 crf=23.0 qco
mp=0.60 qpmin=0 qpmax=69 qpstep=4 ip ratio=1.40 aq=1:1.00
Output #0, mp4, to 'bg panorama.mp4':
 Metadata:
   encoder
                   : Lavf58.29.100
   Stream #0:0: Video: h264 (libx264) (avc1 / 0x31637661), yuvj420p(pc), 480x360 [SAR
1:1 DAR 4:3], q=-1--1, 30 fps, 15360 tbn, 30 tbc
   Metadata:
     encoder
                    : Lavc58.54.100 libx264
   Side data:
     cpb: bitrate max/min/avg: 0/0/0 buffer size: 0 vbv delay: -1
frame= 900 fps=827 q=-1.0 Lsize= 966kB time=00:00:29.90 bitrate= 264.7kbits/s speed
video:955kB audio:0kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead:
1.191504%
[libx264 @ 0x12680e400] frame I:4 Avg QP:20.69 size: 20816
[libx264 @ 0x12680e400] frame P:227 Avg QP:22.99 size: 2327
[libx264 @ 0x12680e400] frame B:669 Avg QP:28.84 size: 546
[libx264 @ 0x12680e400] consecutive B-frames: 0.9% 0.0% 0.0% 99.1%
[libx264 @ 0x12680e400] mb I I16..4: 2.6% 79.1% 18.2%
[libx264 @ 0x12680e400] mb P I16..4: 0.2% 0.9% 0.3% P16..4: 44.6% 15.8% 10.2% 0.0%
 0.0% skip:28.0%
[libx264 @ 0x12680e400] mb B I16..4: 0.0% 0.1% 0.0% B16..8: 48.9% 1.8% 0.3%
ct: 0.3% skip:48.6% L0:50.5% L1:48.2% BI: 1.3%
[libx264 @ 0x12680e400] 8x8 transform intra:71.2% inter:79.8%
[libx264 @ 0x12680e400] coded y,uvDC,uvAC intra: 76.1% 74.1% 43.9% inter: 6.3% 5.3% 0.5%
[libx264 @ 0x12680e400] i16 v,h,dc,p: 19% 55% 13% 14%
[libx264 @ 0x12680e400] i8 v,h,dc,ddl,ddr,vr,hd,vl,hu: 22% 32% 15% 2% 4% 3% 10% 3%
[libx264 @ 0x12680e400] i4 v,h,dc,ddl,ddr,vr,hd,vl,hu: 28% 34% 12% 2% 4% 3% 9% 2%
7%
[libx264 @ 0x12680e400] i8c dc,h,v,p: 49% 31% 13% 7%
[libx264 @ 0x12680e400] Weighted P-Frames: Y:0.0% UV:0.0%
```

```
[libx264 @ 0x12680e400] ref P L0: 59.3% 15.8% 12.4% 12.6%
[libx264 @ 0x12680e400] ref B L0: 82.0% 14.0% 4.1%
[libx264 @ 0x12680e400] ref B L1: 89.8% 10.2%
[libx264 @ 0x12680e400] kb/s:260.53

Out[37]: (None, None)
```

Part 6: Create foreground movie

In [58]: 360*480

In the background video, moving objects are removed. In each frame, those pixels that are different enough than the background color are considered foreground. For each frame determine foreground pixels and generate a movie that emphasizes or includes only foreground pixels.

```
172800
Out[581:
In [82]: # TO DO part 6
          # difference threshold
         diff threshold = 60
          # create the foreground frames dir
         output dir = "images/output/fg frames"
         if not os.path.exists(output dir):
             os.makedirs(output dir)
          # generate the fg frames
         for i in range(transformed frameCount):
             # obtain the bg and transformed frames
             H inv = np.linalg.inv(np.dot(Tr,all homographies[i]))
             bg = cv2.warpPerspective(bg panorama, H inv, (video frameWidth, video frameHeight)).
             img = cv2.warpPerspective(transformed frames[i], H inv, (video frameWidth, video fra
             ## compute the foreground pixels that are different from the background
             # find the zero values in img
             zero img idx = np.argwhere(img == 0)
             # compute the difference between bg and img for non-zero pixels
             diff = np.sqrt(((bg - img) ** 2).sum(axis=-1))
             # remove the difference for zero pixels
             diff[zero img idx[:,0],zero img idx[:,1]]=0
             fg idx = np.argwhere(diff > diff threshold)
             # print("fg idx: ", fg idx.shape)
             # generate the mask
             mask = np.zeros((video frameHeight, video frameWidth,3))
             mask[fg idx[:,0],fg idx[:,1],:]=1
             mask = cv2.GaussianBlur(mask, (3,3), cv2.BORDER DEFAULT)
             foreground = img * mask
             cv2.imwrite(os.path.join(output dir, f"f{str(i+1).zfill(4)}.jpg"), foreground)
In [83]: # make it video
             ffmpeg
             .input('images/output/fg frames/f%04d.jpg', framerate=30)
             .output('fg panorama.mp4')
             .run()
         ffmpeg version 4.2.2 Copyright (c) 2000-2019 the FFmpeg developers
           built with clang version 12.0.0
           configuration: --prefix=/Users/ktietz/demo/mc3/conda-bld/ffmpeg 1628925491858/ h env p
```

lacehold placehold placehold placehold placehold placehold placehold placehold

```
placehold placehold placehold placehold placehold placehold placehold placehold
ld placehold plac --cc=arm64-apple-darwin20.0.0-clang --disable-doc --enable-avresample
--enable-gmp --enable-hardcoded-tables --enable-libfreetype --enable-libvpx --enable-pth
reads --enable-libopus --enable-postproc --enable-pic --enable-pthreads --enable-shared
--enable-static --enable-version3 --enable-zlib --enable-libmp3lame --disable-nonfree --
enable-gpl --enable-gnutls --disable-openssl --enable-libopenh264 --enable-libx264
 libavutil 56. 31.100 / 56. 31.100
              58. 54.100 / 58. 54.100
 libavcodec
 libavformat 58. 29.100 / 58. 29.100
 libavdevice 58. 8.100 / 58. 8.100
 libavfilter
               7. 57.100 / 7. 57.100
 libavresample 4. 0. 0 / 4. 0. 0
 libswscale 5. 5.100 / 5. 5.100
 libswresample 3. 5.100 / 3. 5.100
 libpostproc 55. 5.100 / 55. 5.100
Input #0, image2, from 'images/output/fg frames/f%04d.jpg':
 Duration: 00:00:30.00, start: 0.000000, bitrate: N/A
   Stream #0:0: Video: mjpeg (Baseline), yuvj420p(pc, bt470bg/unknown/unknown), 480x360
[SAR 1:1 DAR 4:3], 30 fps, 30 tbr, 30 tbn, 30 tbc
Stream mapping:
 Stream #0:0 -> #0:0 (mjpeg (native) -> h264 (libx264))
Press [q] to stop, [?] for help
[libx264 @ 0x14c022400] using SAR=1/1
[libx264 @ 0x14c022400] using cpu capabilities: ARMv8 NEON
[libx264 @ 0x14c022400] profile High, level 3.0
[libx264 @ 0x14c022400] 264 - core 152 - H.264/MPEG-4 AVC codec - Copyleft 2003-2017 - h
ttp://www.videolan.org/x264.html - options: cabac=1 ref=3 deblock=1:0:0 analyse=0x3:0x11
3 me=hex subme=7 psy=1 psy rd=1.00:0.00 mixed ref=1 me range=16 chroma me=1 trellis=1 8x
8dct=1 cqm=0 deadzone=21,11 fast pskip=1 chroma qp offset=-2 threads=11 lookahead thread
s=1 sliced threads=0 nr=0 decimate=1 interlaced=0 bluray compat=0 constrained intra=0 bf
rames=3 b pyramid=2 b adapt=1 b bias=0 direct=1 weightb=1 open gop=0 weightp=2 keyint=25
0 keyint min=25 scenecut=40 intra refresh=0 rc lookahead=40 rc=crf mbtree=1 crf=23.0 qco
mp=0.60 qpmin=0 qpmax=69 qpstep=4 ip ratio=1.40 aq=1:1.00
Output #0, mp4, to 'fg panorama.mp4':
 Metadata:
                  : Lavf58.29.100
   encoder
   Stream #0:0: Video: h264 (libx264) (avc1 / 0x31637661), yuvj420p(pc), 480x360 [SAR
1:1 DAR 4:3], q=-1--1, 30 fps, 15360 tbn, 30 tbc
   Metadata:
     encoder
                    : Lavc58.54.100 libx264
   Side data:
     cpb: bitrate max/min/avg: 0/0/0 buffer size: 0 vbv delay: -1
frame= 900 fps=528 q=-1.0 Lsize= 5345kB time=00:00:29.90 bitrate=1464.3kbits/s speed
video:5333kB audio:0kB subtitle:0kB other streams:0kB global headers:0kB muxing overhea
d: 0.214406%
[libx264 @ 0x14c022400] frame I:5 Avg QP:24.25 size: 12976
[libx264 @ 0x14c022400] frame P:226 Avg QP:27.80 size: 8307
[libx264 @ 0x14c022400] frame B:669 Avg QP:30.02 size: 5259
[libx264 @ 0x14c022400] consecutive B-frames: 0.7% 0.2% 1.3% 97.8%
[libx264 @ 0x14c022400] mb I I16..4: 7.5% 46.3% 46.1%
[libx264 @ 0x14c022400] mb P I16..4: 2.1% 13.7% 11.7% P16..4: 20.3% 19.8% 10.7% 0.0%
 0.0% skip:21.8%
[libx264 @ 0x14c022400] mb B I16..4: 0.8% 4.0% 3.2% B16..8: 32.9% 22.2% 8.4% dire
ct: 7.3% skip:21.3% L0:47.3% L1:41.9% BI:10.7%
[libx264 @ 0x14c022400] 8x8 transform intra:50.0% inter:34.2%
[libx264 @ 0x14c022400] coded y,uvDC,uvAC intra: 41.6% 13.3% 6.4% inter: 33.9% 6.1% 0.8%
[libx264 @ 0x14c022400] i16 v,h,dc,p: 50% 40% 9% 2%
[libx264 @ 0x14c022400] i8 v,h,dc,ddl,ddr,vr,hd,vl,hu: 18% 13% 58% 2% 2% 2% 2% 1%
[libx264 @ 0x14c022400] i4 v,h,dc,ddl,ddr,vr,hd,vl,hu: 23% 25% 28% 3% 5% 3% 5% 3% 5% 3%
[libx264 @ 0x14c022400] i8c dc,h,v,p: 86% 7% 6% 0%
[libx264 @ 0x14c022400] Weighted P-Frames: Y:23.9% UV:8.4%
[libx264 @ 0x14c022400] ref P LO: 36.0% 20.9% 23.0% 16.8% 3.3%
[libx264 @ 0x14c022400] ref B LO: 73.8% 20.2% 6.0%
```

[libx264 @ 0x14c022400] ref B L1: 88.3% 11.7%
[libx264 @ 0x14c022400] kb/s:1456.12

Out[83]: (None, None)

Bells and whistles

In []: