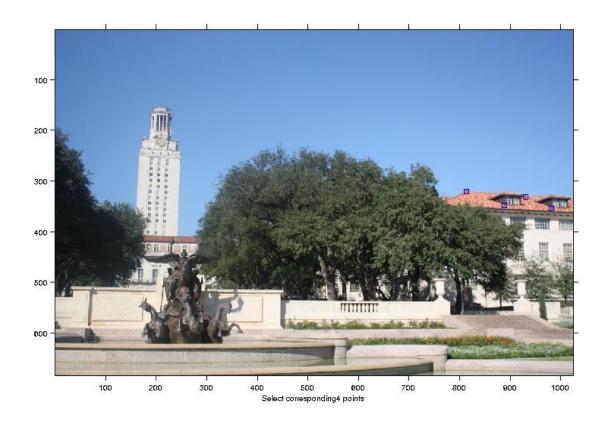
#### **Computing the Homography parameters:**

- Four corresponding points are chosen from two images.
- The Homography matrix is obtained by solving for the equation AH = B.

#### Warping between the image planes.

- Using the H matrix from above, the source image is transformed into the destination image space.
- The points marked in 'red' represent the original image points selected by the user.
- The points marked in 'blue' represent the points obtained by applying the Homography matrix on the source image points.



# Creating the output mosaic.

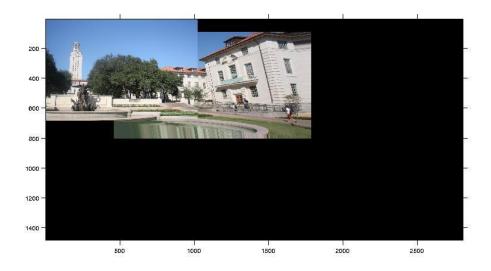
- The transformed source image is then overlaid with the destination image to from the mosaic.



a) Source Image.



# b) Destination Image

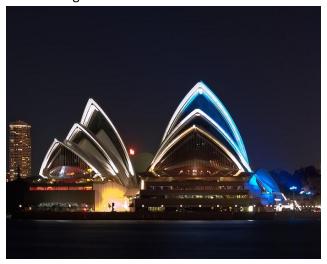


c) Image mosaic.

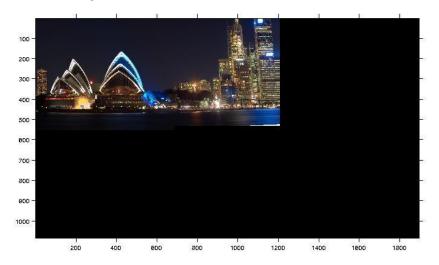
## Additional Example of mosaic.



## a) Source Image



# b) Destination Image



## c) Final Image Mosaic.

Image Source: <a href="http://en.wikipedia.org/wiki/File:Sydney Harbour Bridge night.jpg">http://en.wikipedia.org/wiki/File:Sydney Harbour Bridge night.jpg</a>

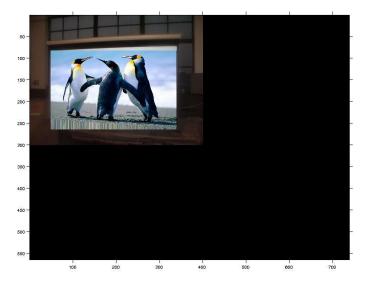
# Warp one image into "frame" region in the second image.



# a) Original Image



## b) Destination Frame



c) Original image projected onto Destination Frame

Image Source: <a href="http://www.sz-wholesale.com/Search-Result/overhead-projector-screen/">http://www.sz-wholesale.com/Search-Result/overhead-projector-screen/</a>