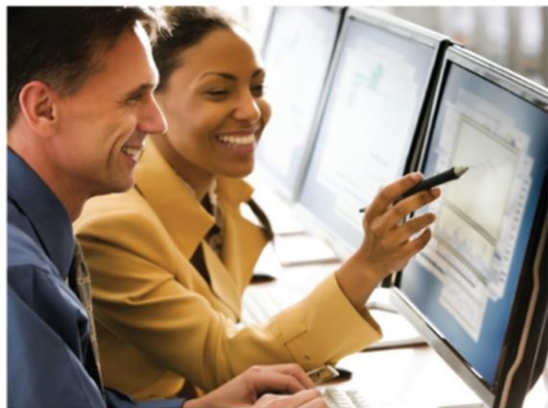


# Exercises: Importing and Visualizing Videos

AUVSI Foundation: Computer Vision Training



# Video File Import

The `vipwarnsigns.avi` video shows a camera mounted on a vehicle viewing traffic signs as the vehicle moves around. In this exercise, you will view this video using MATLAB®.

1. Create a video file reader system object to read this video file.
2. Set the output color space to RGB.
3. Set the output data type to `uint8`.
4. Create a deployable video player object to view the video.
5. Acquire frames using the video file reader and display them in the video player until all the frames have been read.

## Solution

```
>> importVideoFile
```



# Video Camera Acquisition

In this exercise, you will use a camera to acquire video frames and display them in MATLAB.

1. Create a VideoDevice System object.
2. Determine the list of available video formats.
3. Set the returned video format to 640-by-480, or the closest available resolution.
4. Set the output data type to `uint8`.
5. Create a deployable video player object to view the video.
6. Acquire frames for 10 seconds and display them in the video player.

## Solution

```
>> acquireVideoCamera
```

