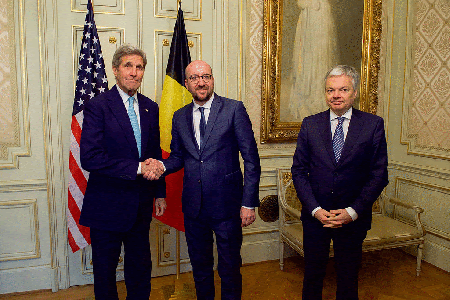
Doing **human face detection with computer vision** is probably something you do once unless you work for police departments, you work in the surveillance industry or for the Chinese government. In order to reduce the time you lose on that small exercise, bnosac created a small R package which wraps the weights of a Single Shot Detector (SSD) Convolutional Neural Network which was trained with the Caffe Deep Learning kit. That network allows to detect human faces in images. An example is shown below (tested on Windows and Linux).

install.packages("magick")  
library(magick)  
library(image.libfacedetection)  
image <- image\_read("[http://bnosac.be/images/bnosac/blog/wikipedia-25930827182-kerry-michel.jpg](http://www.bnosac.be/images/bnosac/blog/wikipedia-25930827182-kerry-michel.jpg)")  
faces <- image\_detect\_faces(image)  
faces  
plot(faces, image, border = "red", lwd = 7, col = "white")



What you get out of this is for each face the x/y locations and the width and height of the face. If you want to extract only the faces, loop over the detected faces and get them from the image as shown below.

allfaces <- Map(  
    x      = faces$detections$x,  
    y      = faces$detections$y,  
    width  = faces$detections$width,  
    height = faces$detections$height,  
    f = function(x, y, width, height){  
      image\_crop(image, geometry\_area(x = x, y = y, width = width, height = height))  
    })  
allfaces <- do.call(c, allfaces)  
allfaces

Hope this gains you some time when doing which seems like a t-test of computer vision.