1. What could be the main reasons why most of the features are not tracked very long in case 'obama.avi'?

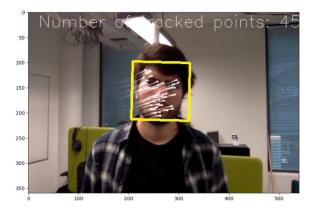




Figure 1 and 2 - Number of tracked points (45 v 4) at second 16 of each video **Video quality** can be an issue as the video is recorded through a screen and a low-resolution picture of Obama in Wikipedia website.

Brutish movements in the Obama video, around second 9 there is a brutish movement, which made lose a lot of features.

2. How could one try to avoid the problem of gradually losing the features? Suggest one or more improvements.

Periodically redetect features in the frame and initialize tracking again to ensure we are consistent with tracking points.

Adjust the window size as motion is detected, so features can be tracker for longer

HW 08 good Pinheiro Computer jusion 2. Equation 10 Δρ = H-1 [[[[[[(x) - I (w(a,p))]] Solution Slides 25 Then the geometric nbopping W becomes a simple townstation $W(x;p) \rightarrow W(x) = x+p$ We no longer tooch affine nbops, the computing eptical Mso the Hessian can be simplified Note: In simplifies of to identity motorise H= Ell] [DIgm] = Exped VI(z) TVI(z) S [E Izi E Izi]

