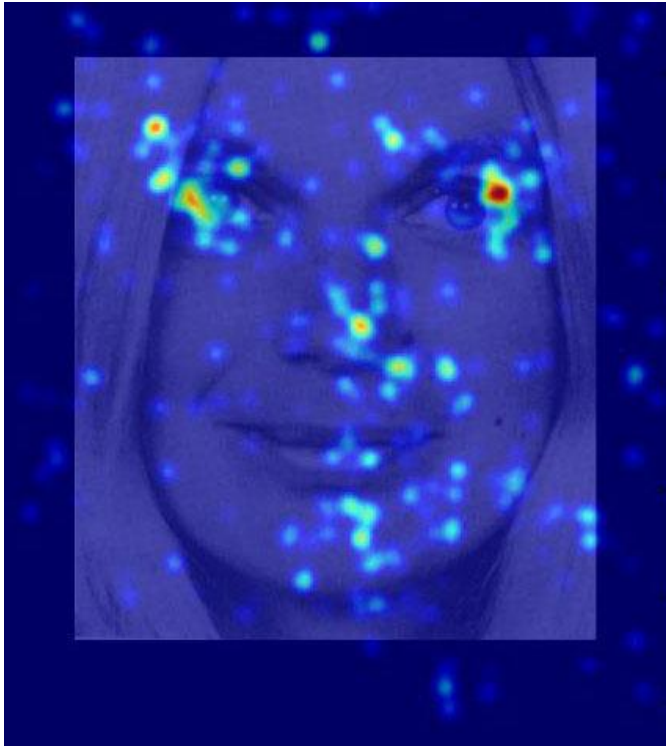
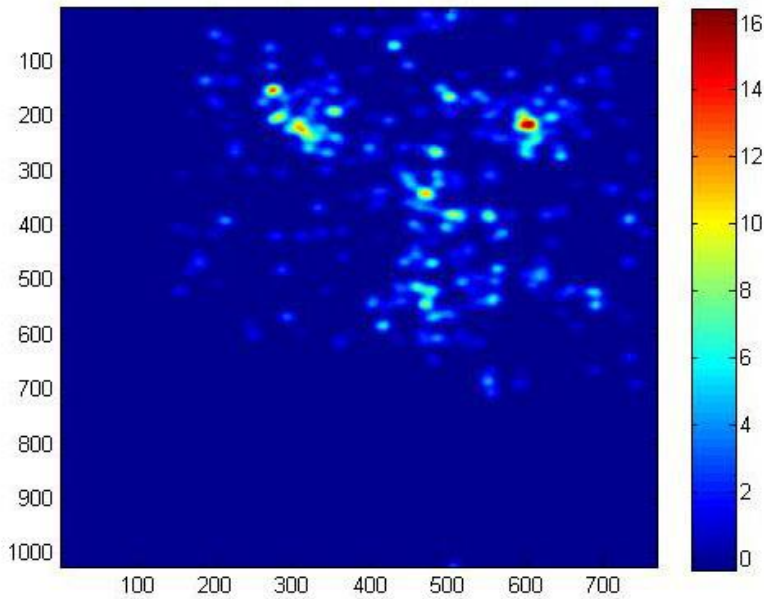


```
%Single subject/9 Ekman Faces (20 sec each) Fixation Map Demo
imap1_1(1024,768,3,4,5,1,[999],[],10,1,1,'EkmanBackground768x1024b.tif');
```



dataset1picedge.tif - Fixation duration map with color-coded Pixel Test results



dataset1map.tif - Z-transformed fixation duration map for subject #2 ($Z_{crit} = 3.87$)

Zcrit.txt - Critical values of Z ($p < 0.05$) for individual (1-tailed) and difference (2-tailed) maps.

SearchArea Size	Zcrit 1-tailed	Zcrit 2-tailed
-----	-----	-----
786432	4.4799	4.6396

eyebasicdataset1.txt

Mean Number of Fixations	Total Fixation Duration	Mean Fixation Duration	Path Length	Mean Saccade Length
-----	-----	-----	-----	-----
42.66667	17.774	0.4185101	6099.333	143.0629

Analysis procedure in a nutshell:

- 1) Collected eye movement data with XDAT interface synchronization to each stimulus.
- 2) Created separate fixation file (.fix) for each stimulus using **EYENAL** software.
- 3) Used **NOTEPAD** to cleanup any bad data lines in the .fix files created above.
- 4) Modified and ran **buildFIX.m** script to convert .fix files into a single matlab matrix named 'summary' that will serve as input into the **iMap** software.
- 5) Ran **imap1_1.m** analysis script (see **test999.m** for details)