

BEX3012 Project Analysis

Stephanie Kobakian

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Contents

Emotions Analysis

Data used: ME: Microsoft's results, emotion data SB: Skybiometry's results, emotion data GE: Google's results, emotion data GoogleFaces: The Set of Faces found by Google in the intital study

Connect face id to original Google set

Add meta data to Emotion results

Create normalized SB values

Create normalized GE values GE: Google results of player facial emotions in numeric confidences

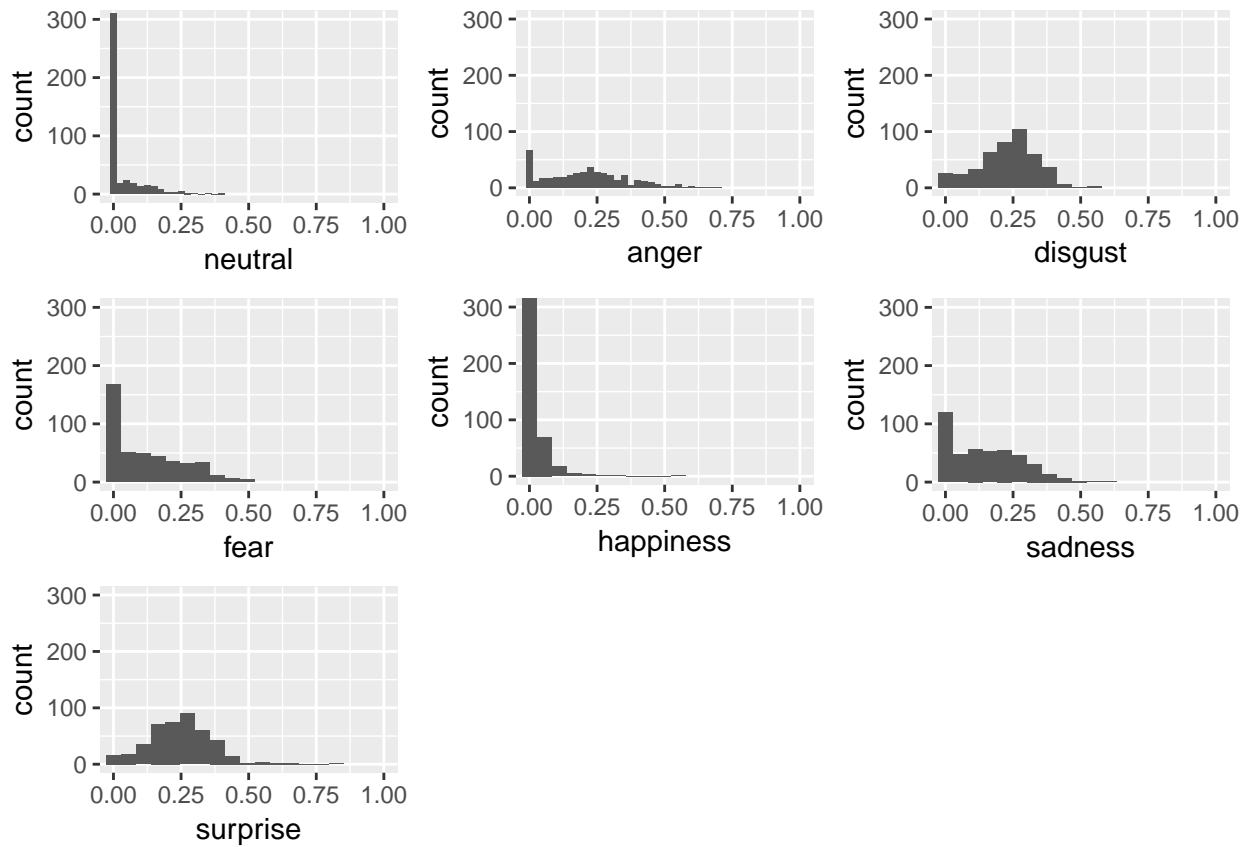
Convert to true or false emotion values

Consider just players, GEP: Microsoft's results, emotion data for only players MEP: Skybiometry's results, emotion data for only players SBP: Google's results, emotion data for only players

[1] 446

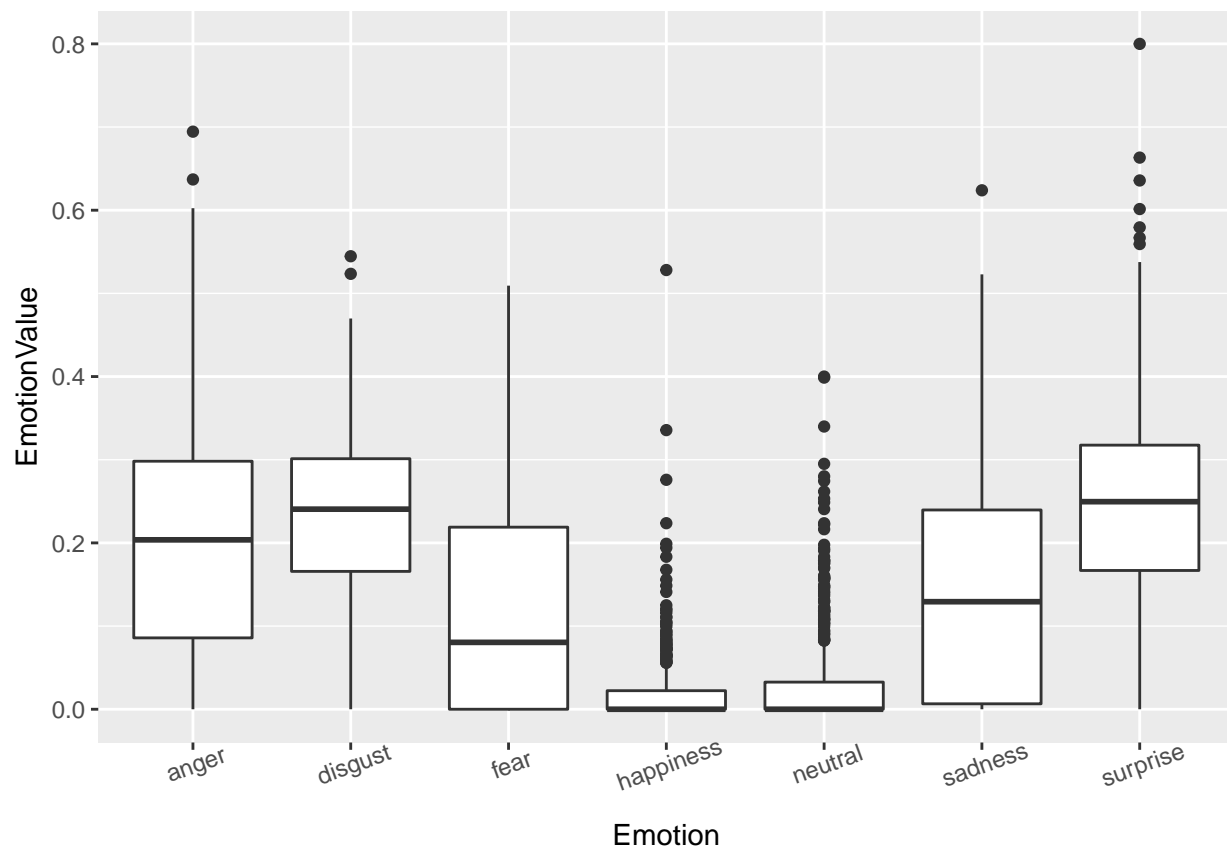
[1] 509

Skybiometry Emotion plots



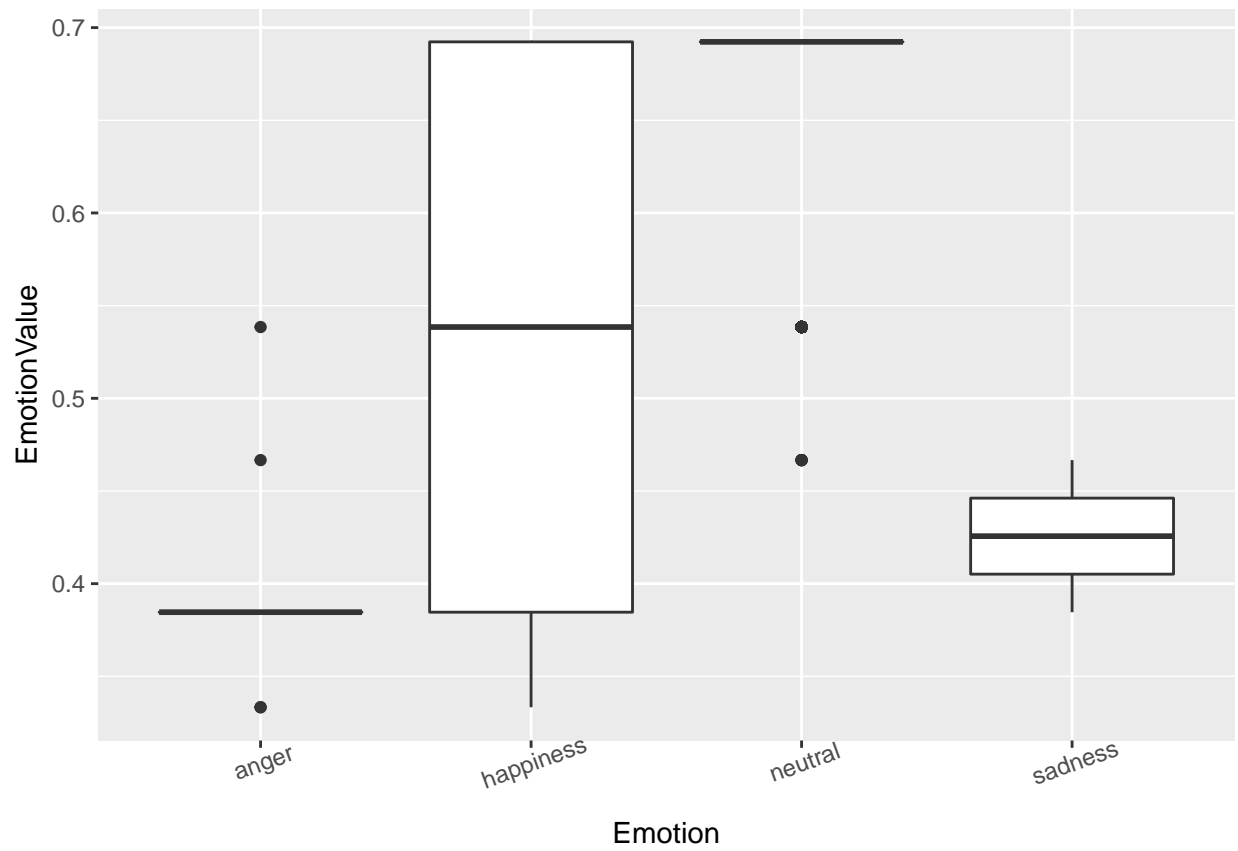
SBPCL: Long form of Confidence levels of SB results

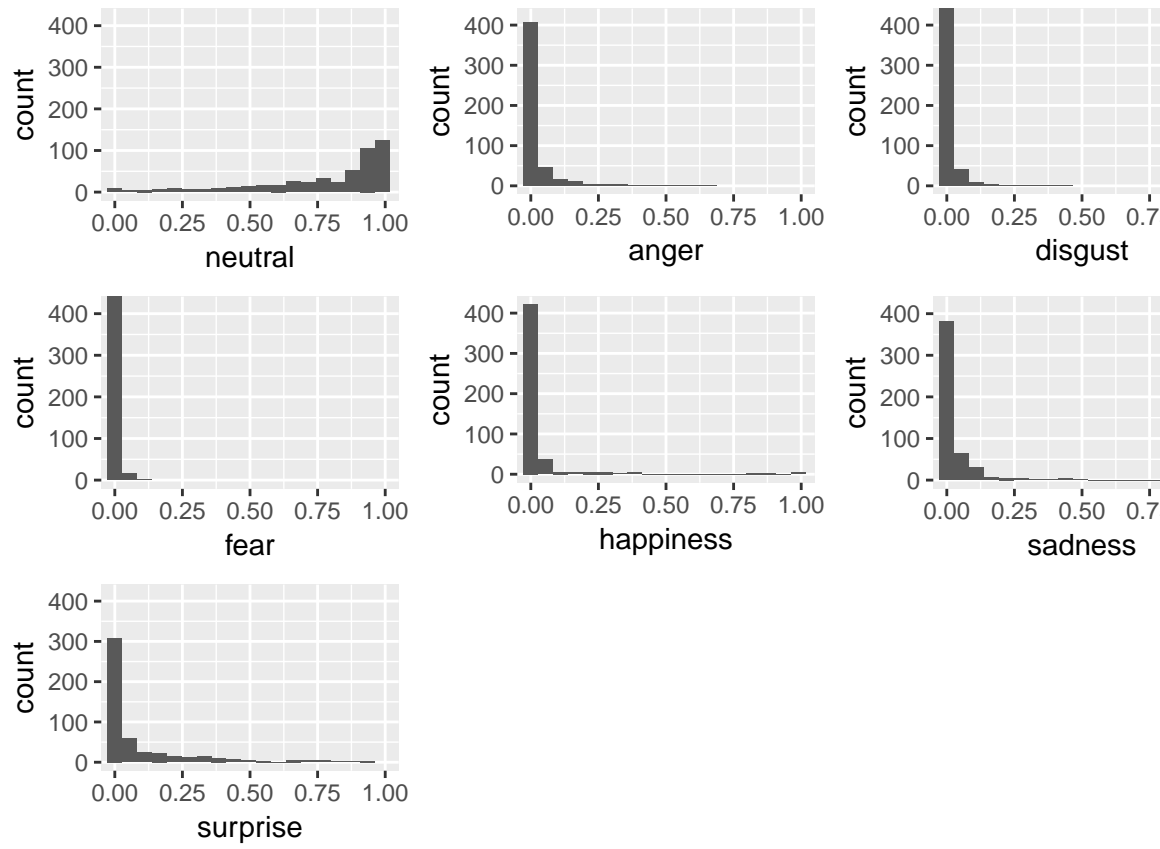
```
##
##      anger    disgust      fear happiness   neutral   sadness  surprise
##      622      89        60         1         3        56      110
```



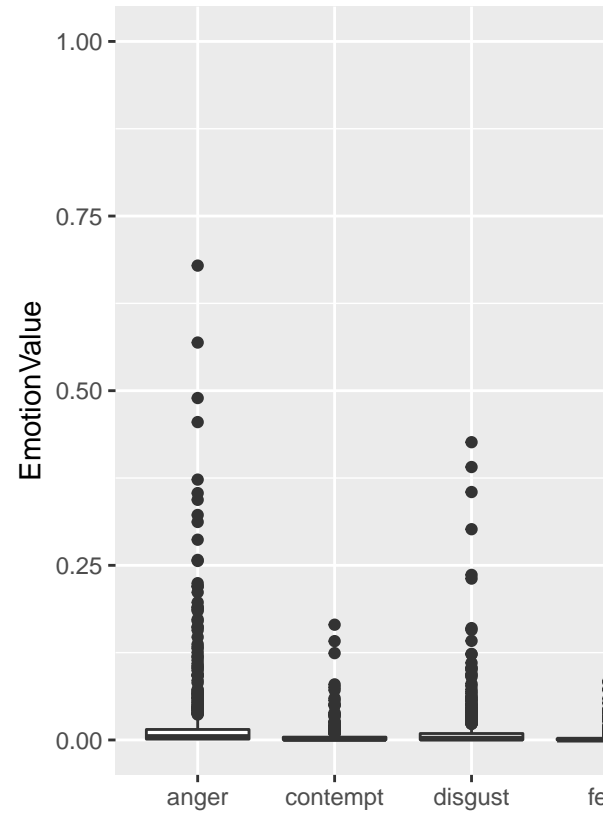
GEP: Long form of Confidence levels of GE results GEPN: Long form of Confidence levels of GE results renamed to match

```
##
##      anger happiness   neutral   sadness
##       46         57       840         2
```





Microsoft Emotion plots



Microsoft Long form MEPCL: Long form of Confidence levels of ME results

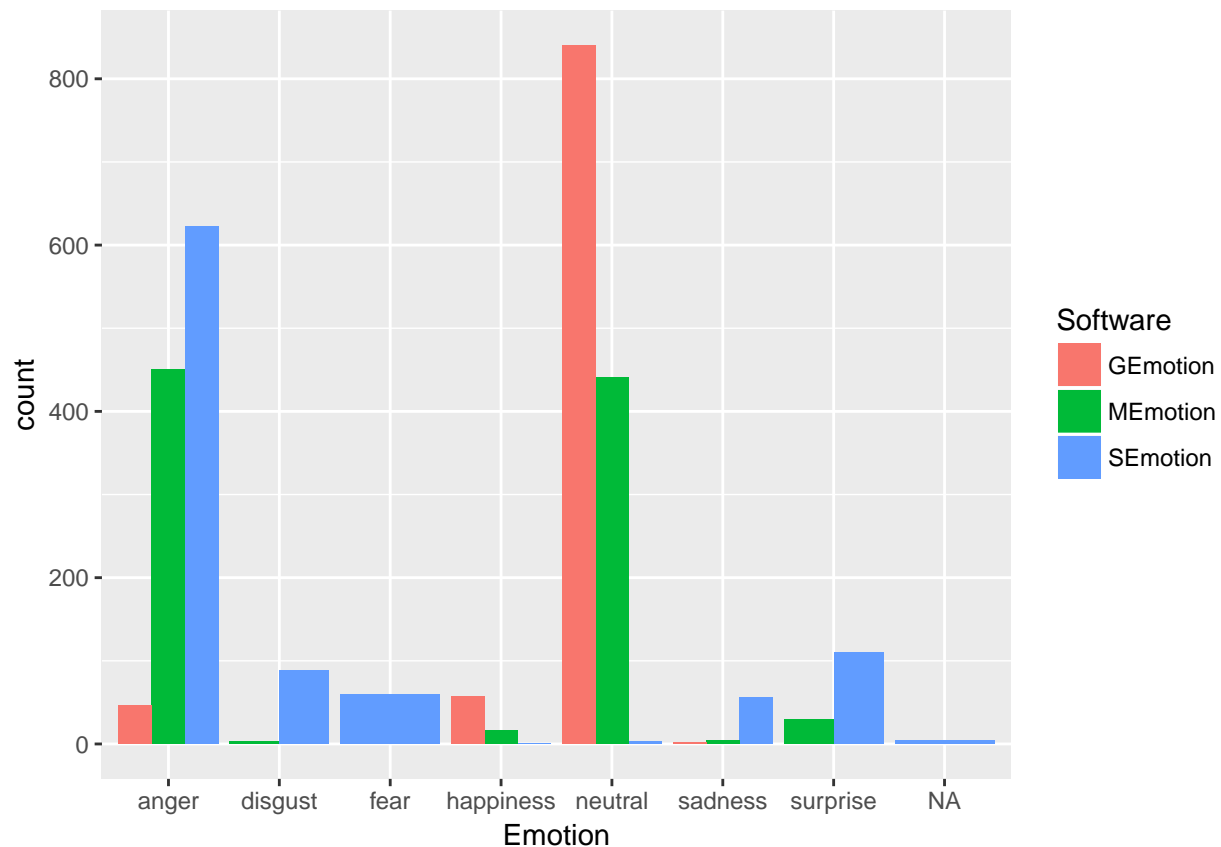
```
##
##      anger    disgust happiness    neutral    sadness    surprise
##      451         3         16       441         4         30
```

Tables

0.0.1

Join emotions for each face J2: Table of FileNames and associated dominant emotion

```
## [1] 847
```



Contingency Table of 50 image sample

##		anger	happiness	neutral	
##					
##	anger	anger	1	1	22
##		happiness	0	1	0
##		neutral	1	1	6
##	disgust	anger	0	0	0
##		happiness	0	0	0
##		neutral	0	0	3
##	fear	anger	0	0	0
##		happiness	0	0	0
##		neutral	0	0	2
##	sadness	anger	0	0	0
##		happiness	0	0	0
##		neutral	0	0	4
##	surprise	anger	0	0	1
##		happiness	0	0	0
##		neutral	0	0	7

Plot images and compare to emotion data

##		anger	disgust	fear	neutral	sadness	surprise
##							
##	anger	2	1	0	0	1	3
##	disgust	0	1	1	0	1	3
##	fear	4	1	2	0	0	1
##	happiness	0	0	2	0	1	0

```
## neutral      1      2      1      1      0      4
## sadness      2      0      2      0      4      1
## surprise      1      3      1      0      0      3
```

Find images from matches played by certain players

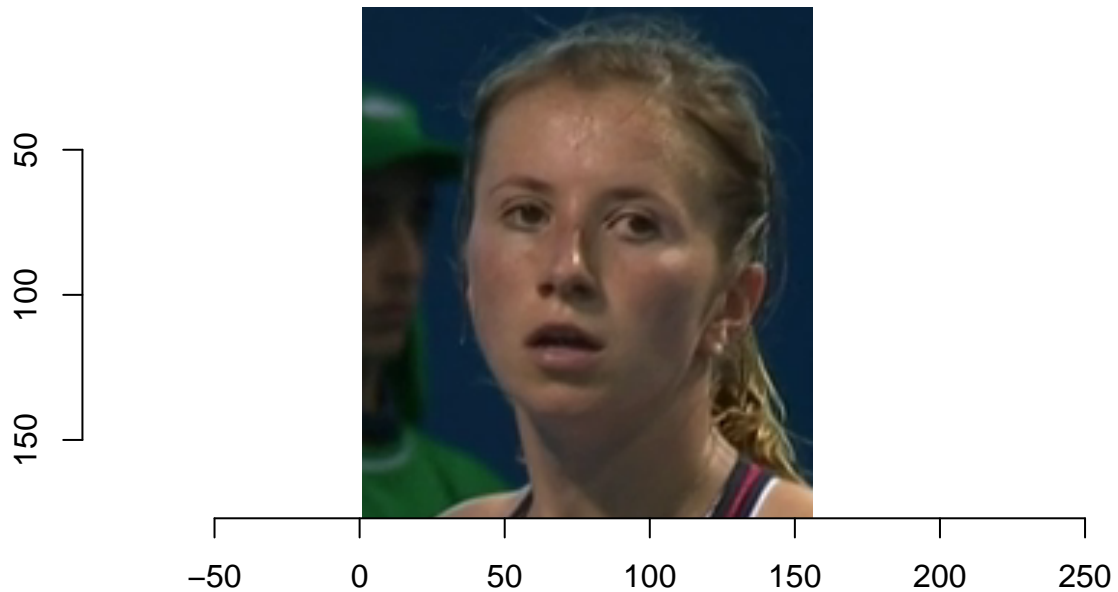
Player Subsetting

```
## [1] 32
```

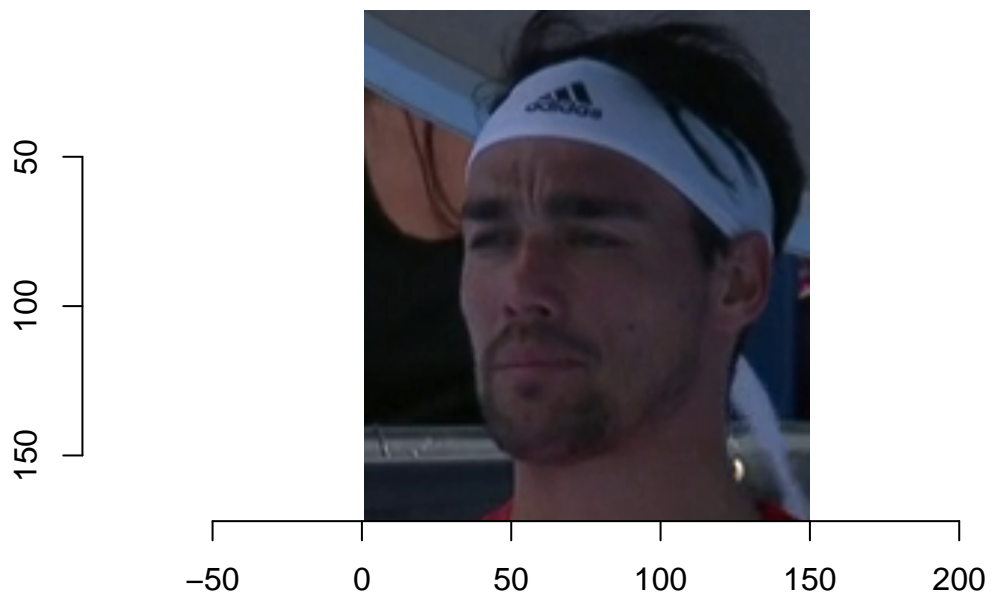
subset of Google where neutral = another category

Emotive Player Faces EF: Emotive Player Faces to be used as sample. It is hard to classify many of the faces as one of the seven possible options. Where hints of emotive expressions can be attributed to one or more faces

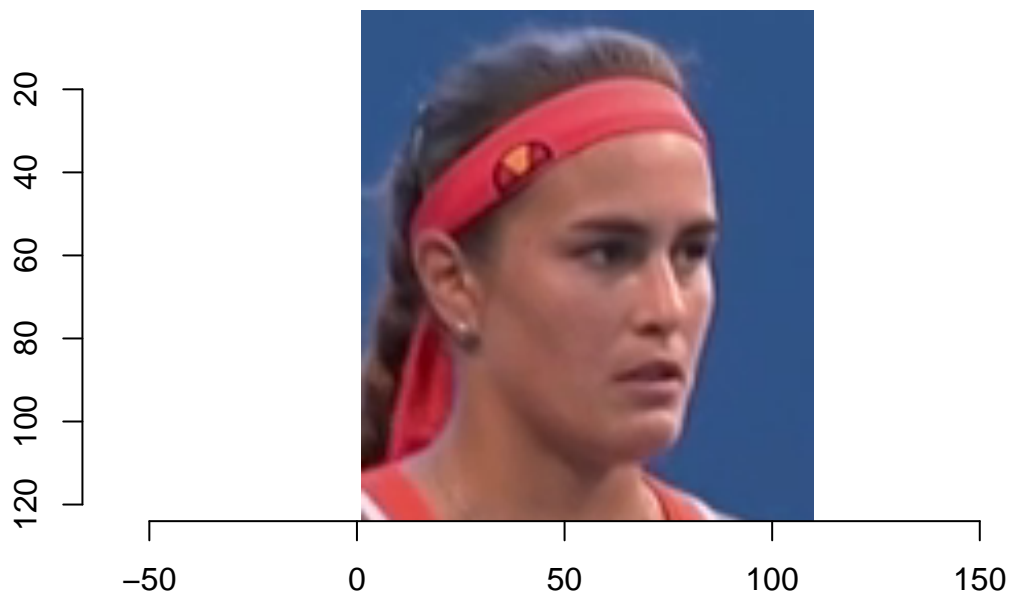
1face-70-1-Go.png



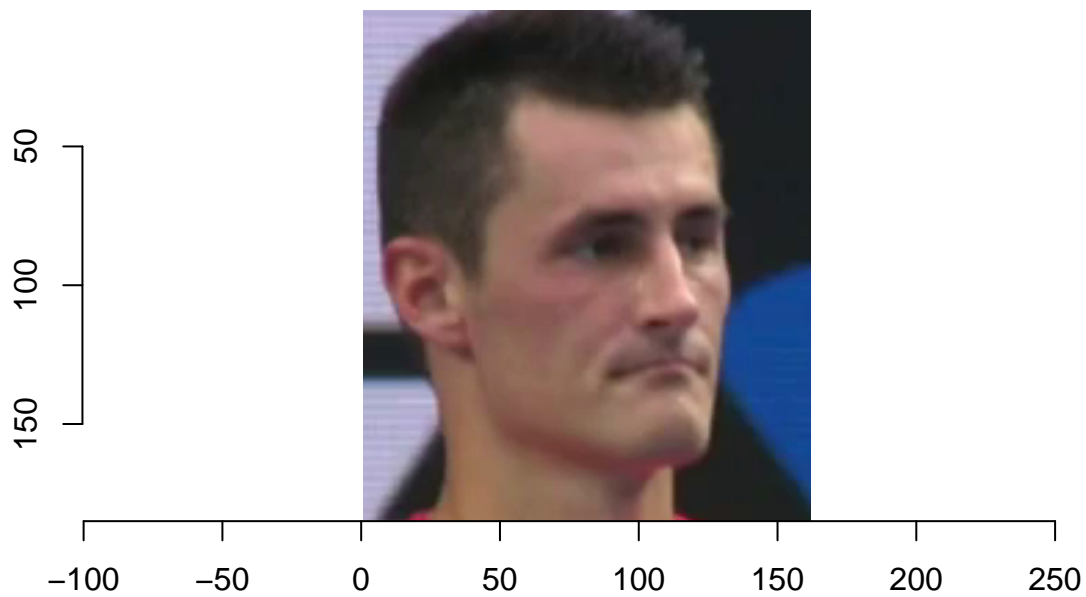
2face-227-2-Go.png



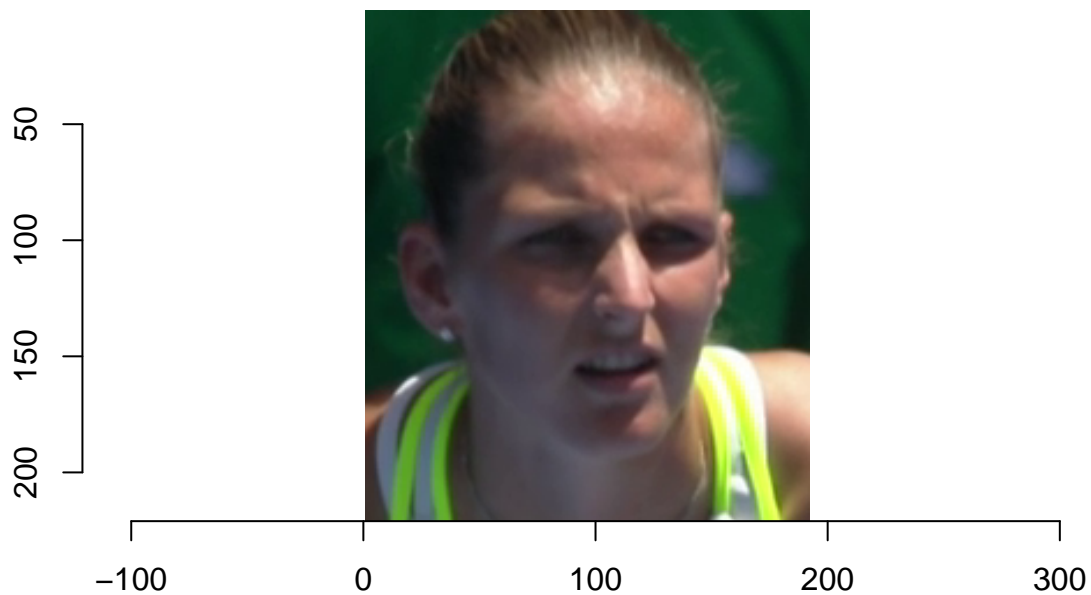
3face-399-1-Go.png



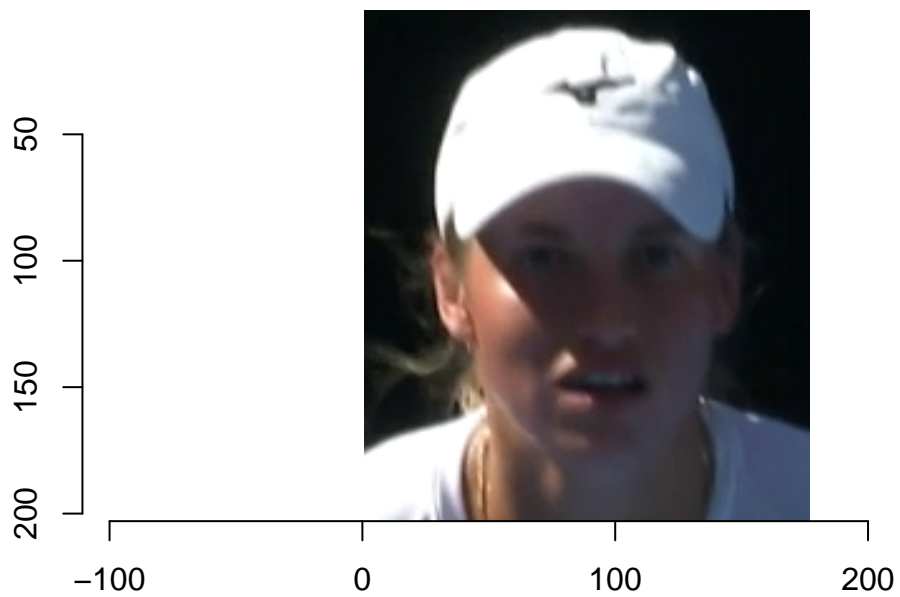
4face-450-1-Go.png



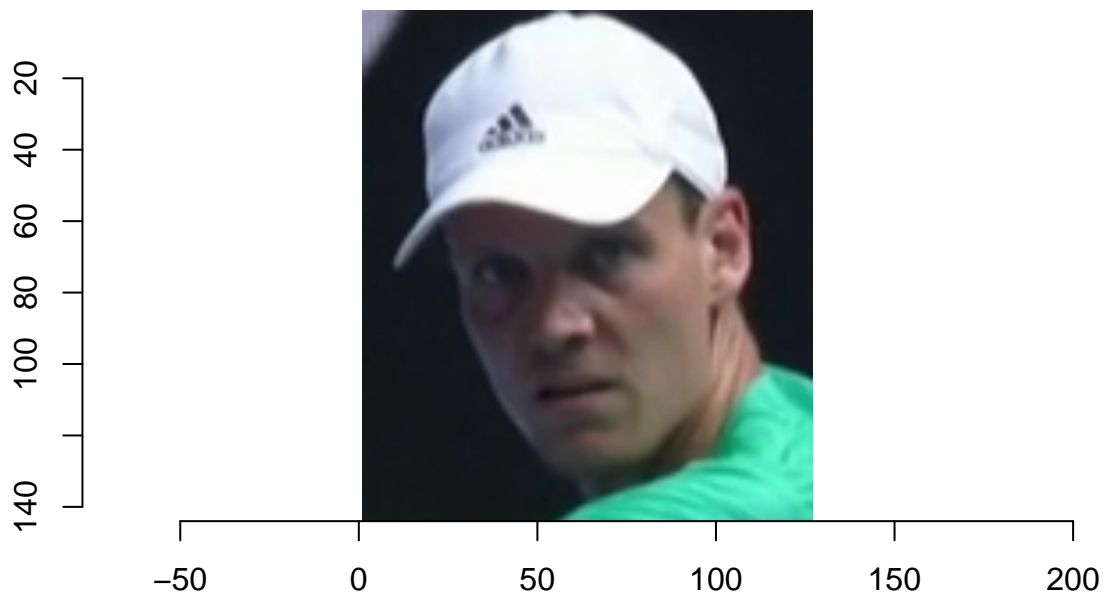
5face-475-1-Go.png



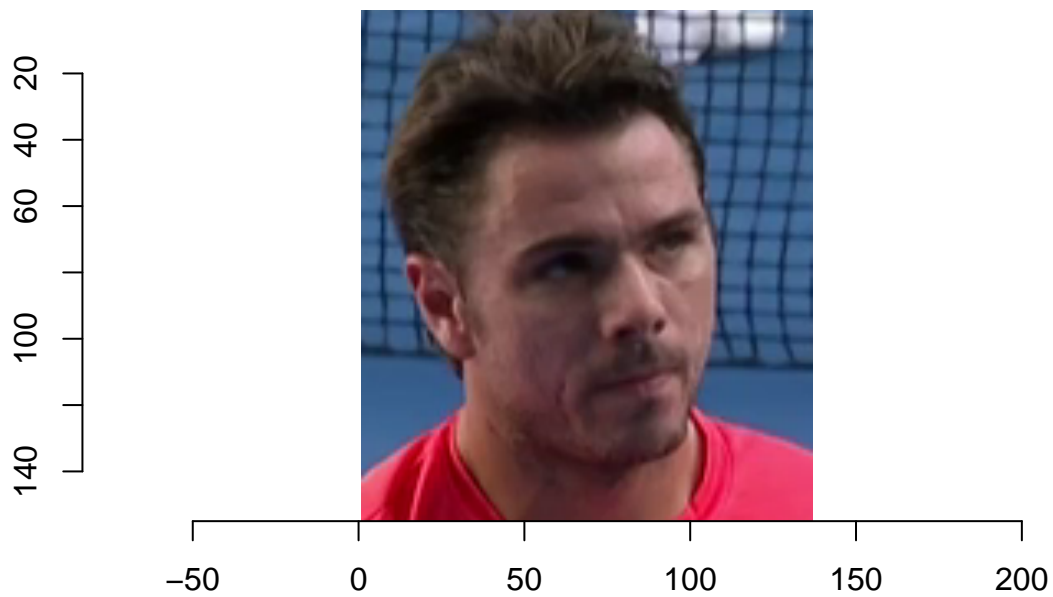
6face-626-1-Go.png



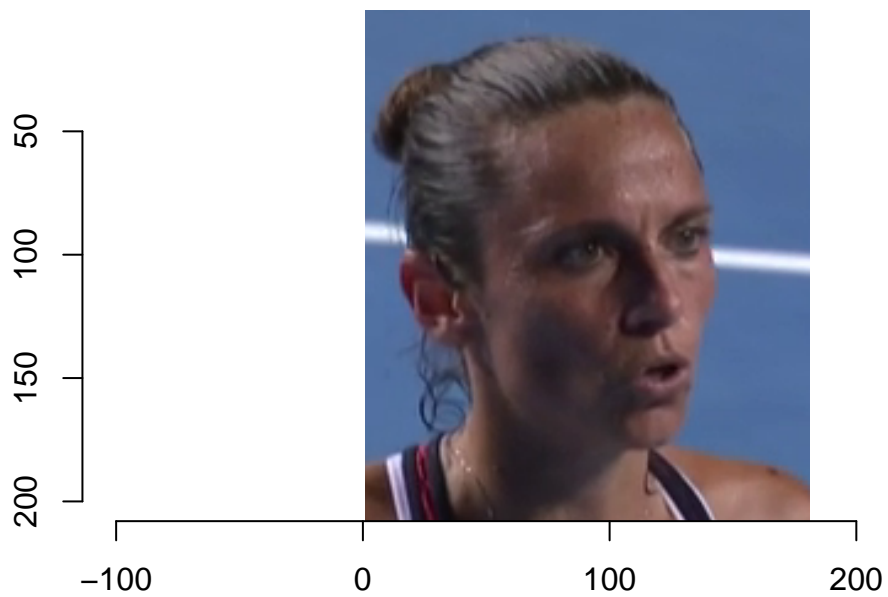
7face-730-1-Go.png



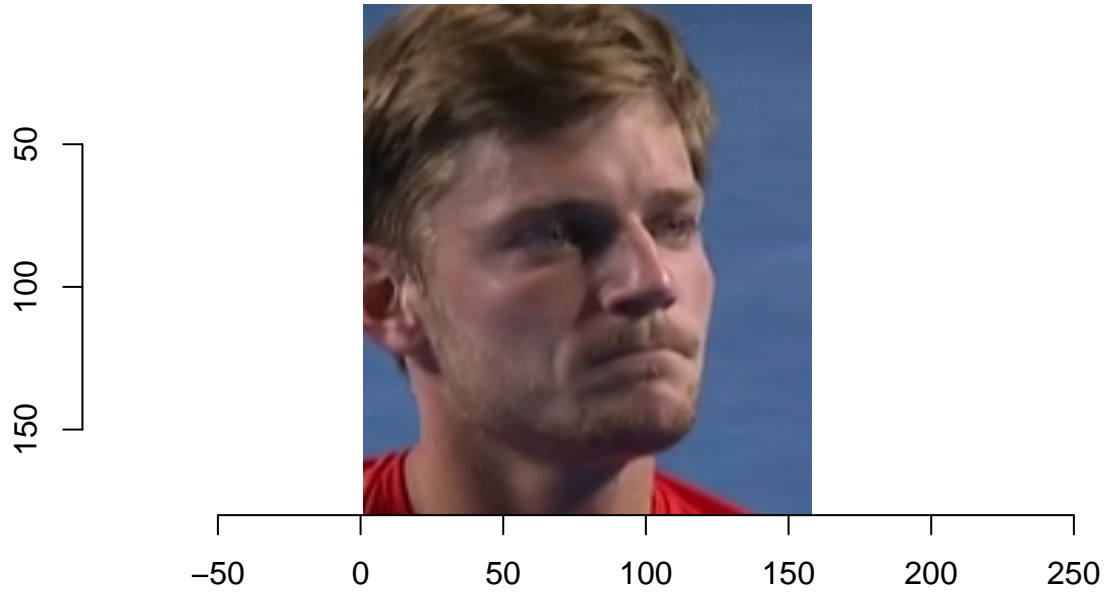
8face-762-1-Go.png



9face-781-1-Go.png



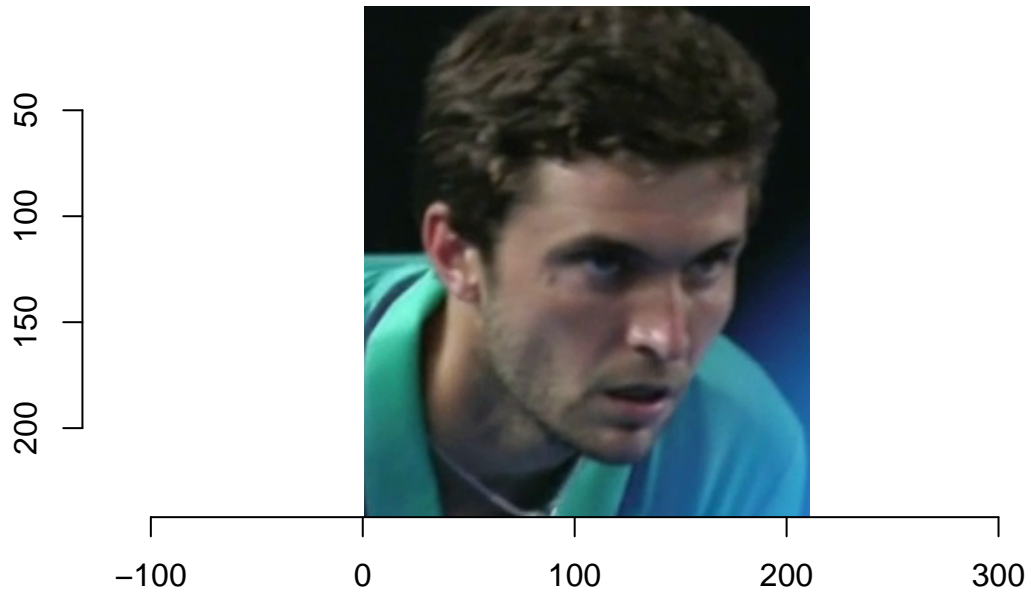
10face-790-1-Go.png



11face-801-1-Go.png



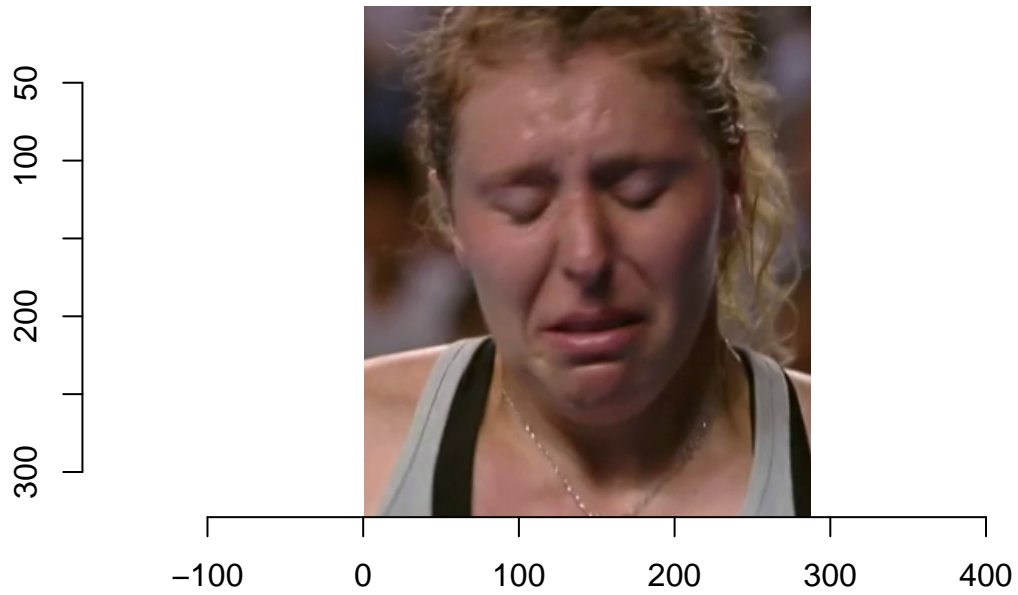
12face-816-1-Go.png



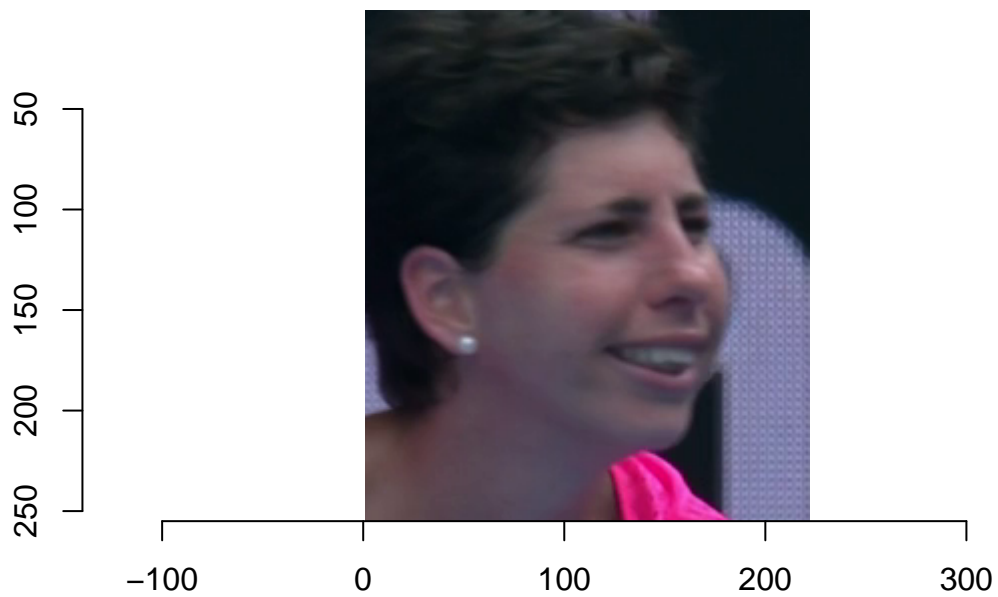
13face-945-1-Go.png



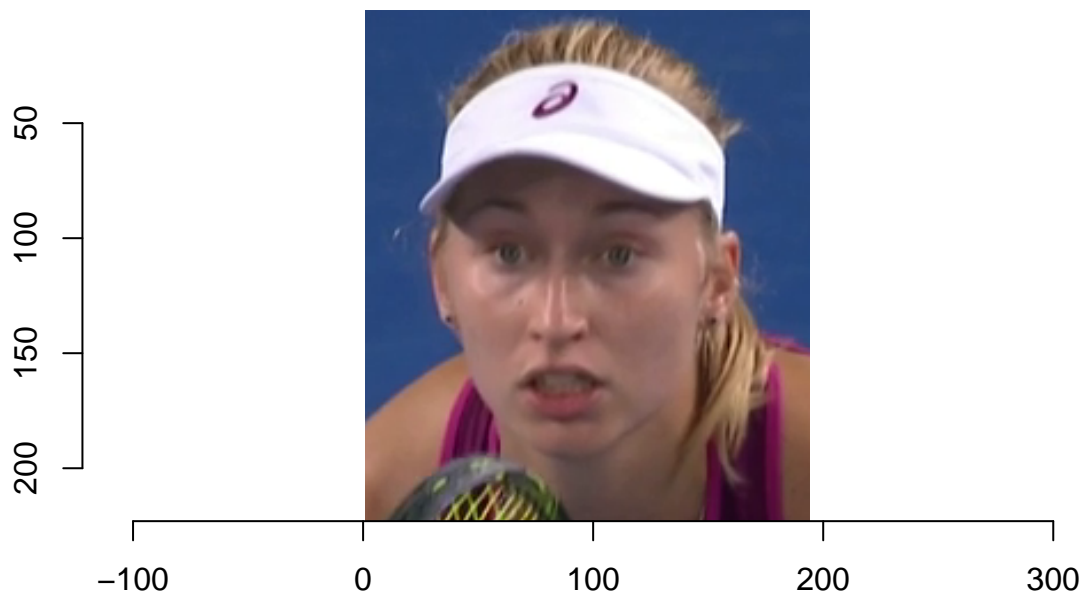
14face-947-1-Go.png



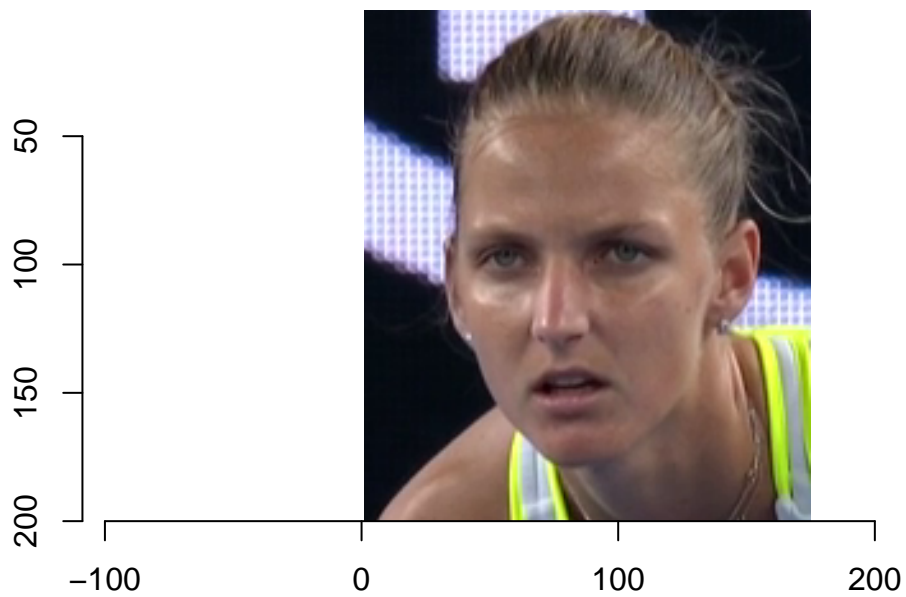
15face-1128-1-Go.png



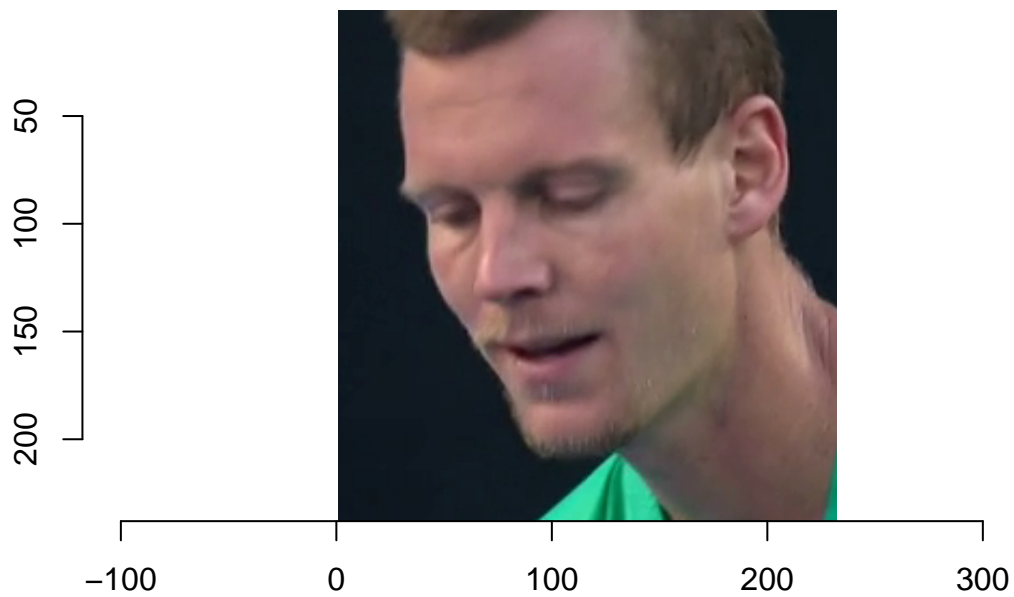
16face-1173-1-Go.png



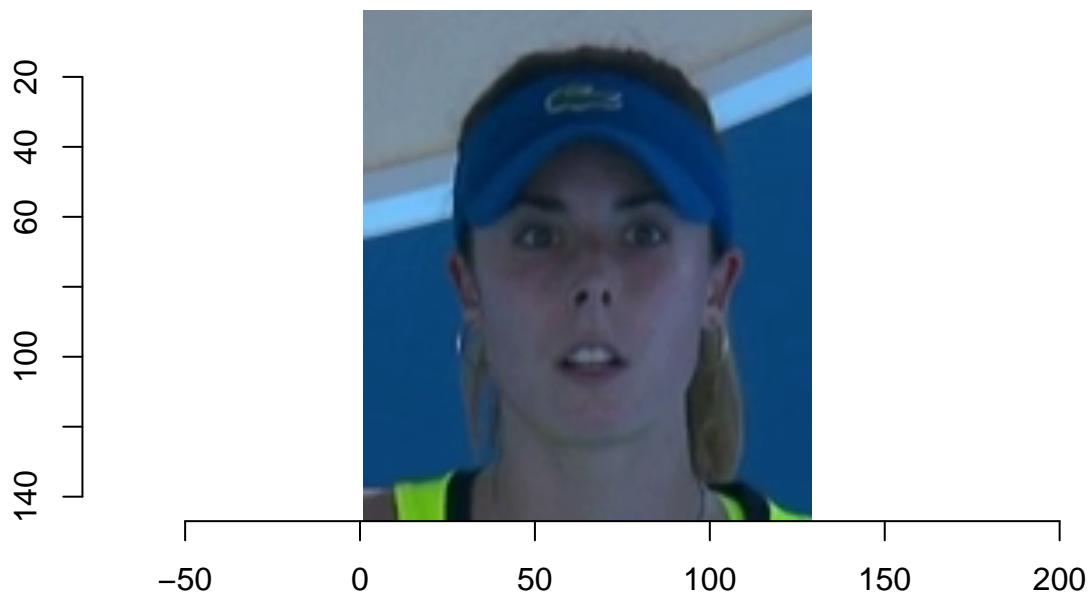
17face-1230-1-Go.png



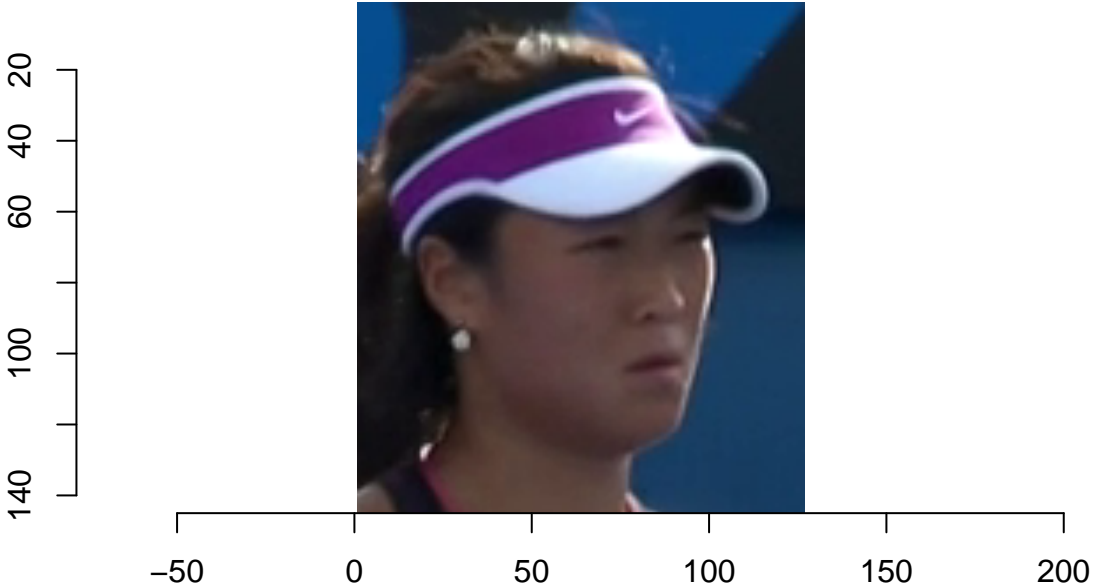
18face-1355-1-Go.png



19face-1635-1-Go.png



20face-1764-1-Go.png



Player Emotion Tables Distribution of emotion values for particular emotions across all images of a player
Parallel coordinate plots