

## EMOTIC Dataset (Structure description)

All annotations (or ground truth) are stored as fields in Annotations.mat (matlab structure file)

Each structure entry has all the information (including the annotation) about every person under consideration.

```
*Annotations = {train, val, test}
*Annotations(1) =
    filename: 'h616x5yhky60how3nt.jpg'
    folder: 'emodb_small/images'
    image_size: [1x1 struct]
    original_database: [1x1 struct]
    person: [1x2 struct]
```

**image\_size** gives the size of the source image in row x column format

**original\_database** = either of the source databases {**emodb\_small**, **mscoco**, **ade20k** or **framesdb**}

**person** shows that image has 2 annotated persons. Their corresponding annotation details are stored in this mini-structure.

## Training Set Example:

```
Annotations(1).person(1) =  
    body_bbox: [215 111 580 352]  
    annotations_categories: [1x1 struct]  
    annotations_continuous: [1x1 struct]  
    gender: 'Male'  
    age: 'Adult'
```

- **body\_bbox** has the format [x1 y1 x2 y2] - the four co-ordinates of the bounding rectangle.
- **annotations\_categories** gives the emotion categories (ground truth) for the person annotated by a human annotator.

```
Annotations(1).person(1).annotations_categories =  
    categories: {'Affection' 'Pleasure' 'Happiness'}
```

- **annotations\_continuous** gives the continuous dimension annotations of the person

```
Annotations(1).person(1).annotations_continuous =  
    valence: 8  
    arousal: 4  
    dominance: 10
```

- **gender** gives the annotated gender, that can be 'Female' or 'Male'.
- **age** gives the annotated age, that can be 'Kid', 'Teenager', or 'Adult'.

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### Testing/Validation Set Example:

```
*Annotations = {val, test}
Annotations(1).person(1) =
    body_bbox: [146 76 379 317]
    annotations_categories: [1x5 struct]
    combined_categories: {1x7 cell}
    annotations_continuous: [1x5 struct]
    combined_continuous: [1x1 struct]
    gender: 'Female'
    age: 'Adult'
```

- **body\_bbox** has the format [x1 y1 x2 y2] - the four coordinates of the bounding rectangle.
- **Annotations\_categories** and **annotations\_continuous** are similar to the Training Set example above. **Validation** set and **Testing** set have multiple annotators for each person.
- The **combined\_\*** fields contain the combination among the multiple annotators (\***continuous**: average amongst the different annotators & \***categories**: all the categories that have been annotated by at least one annotator) - not used during the training in our [CVPR17 paper](#)