# Effect of Anger Emotion on Facial Landmarks

The results presented by Beaudry et al*.*[35](https://www.nature.com/articles/s41598-023-35446-4#ref-CR35) suggest that the mouth is the major landmark when observing a happy emotion and that the eyes are the major landmarks when observing a sad emotion.

Source –

Beaudry, O., Roy-Charland, A., Perron, M., Cormier, I. & Tapp, R. Featural processing in recognition of emotional facial expressions. *Cogn. Emot.* **28**, 416–432 (2013).

The upper parts of the face provide the most details concerning a person’s emotional condition when they are afraid or angry, and the lower and upper parts provide the same information when the person is sad or neutral

Source-

Blais, C.; Roy, C.; Fiset, D.; Arguin, M.; Gosselin, F. The eyes are not the window to basic emotions. *Neuropsychologia* **2012**, *50*, 2830–2838. [[**Google Scholar**](https://scholar.google.com/scholar_lookup?title=The+eyes+are+not+the+window+to+basic+emotions&author=Blais,+C.&author=Roy,+C.&author=Fiset,+D.&author=Arguin,+M.&author=Gosselin,+F.&publication_year=2012&journal=Neuropsychologia&volume=50&pages=2830%E2%80%932838&doi=10.1016/j.neuropsychologia.2012.08.010)] [**[CrossRef](https://doi.org/10.1016/j.neuropsychologia.2012.08.010" \t "_blank)**]

Wegrzyn, M.; Vogt, M.; Kireclioglu, B.; Schneider, J.; Kissler, J. Mapping the emotional face. How individual face parts contribute to successful emotion recognition. *PLoS ONE* **2017**, *12*, e0177239. [[**Google Scholar**](https://scholar.google.com/scholar_lookup?title=Mapping+the+emotional+face.+How+individual+face+parts+contribute+to+successful+emotion+recognition&author=Wegrzyn,+M.&author=Vogt,+M.&author=Kireclioglu,+B.&author=Schneider,+J.&author=Kissler,+J.&publication_year=2017&journal=PLoS+ONE&volume=12&pages=e0177239&doi=10.1371/journal.pone.0177239)] [**[CrossRef](https://doi.org/10.1371/journal.pone.0177239" \t "_blank)**][[**Green Version**](https://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0177239&type=printable)]

Features -

Angle at left eye left side A(38, 37, 42)

Angle at left eye right side A(39, 40, 41)

Angle at right eye left side A(44, 43, 48)

Angle at right eye right side A(45, 46, 47)

Distance at left eye L(38 42)

Distance at right eye L(44 48)

When someone feels angry or disgusted, their eyebrows will naturally lower.

Source-

[Sensors | Free Full-Text | Masked Face Emotion Recognition Based on Facial Landmarks and Deep Learning Approaches for Visually Impaired People (mdpi.com)](https://www.mdpi.com/1424-8220/23/3/1080#B34-sensors-23-01080)

Features -

Angle at left eye-brow A(18, 20, 22) Angle at right eye-brow A(23, 25, 27) Distance between left eye-brow and left eye bottom point L(20, 42) Distance between right eye-brow and right eye bottom point L(25, 47)

Additional Features -

Distance between upper and lower lip L(51, 59)

Distance between upper and lower lip L(53, 57)

Distance between lower lip and chin L(58, 9)