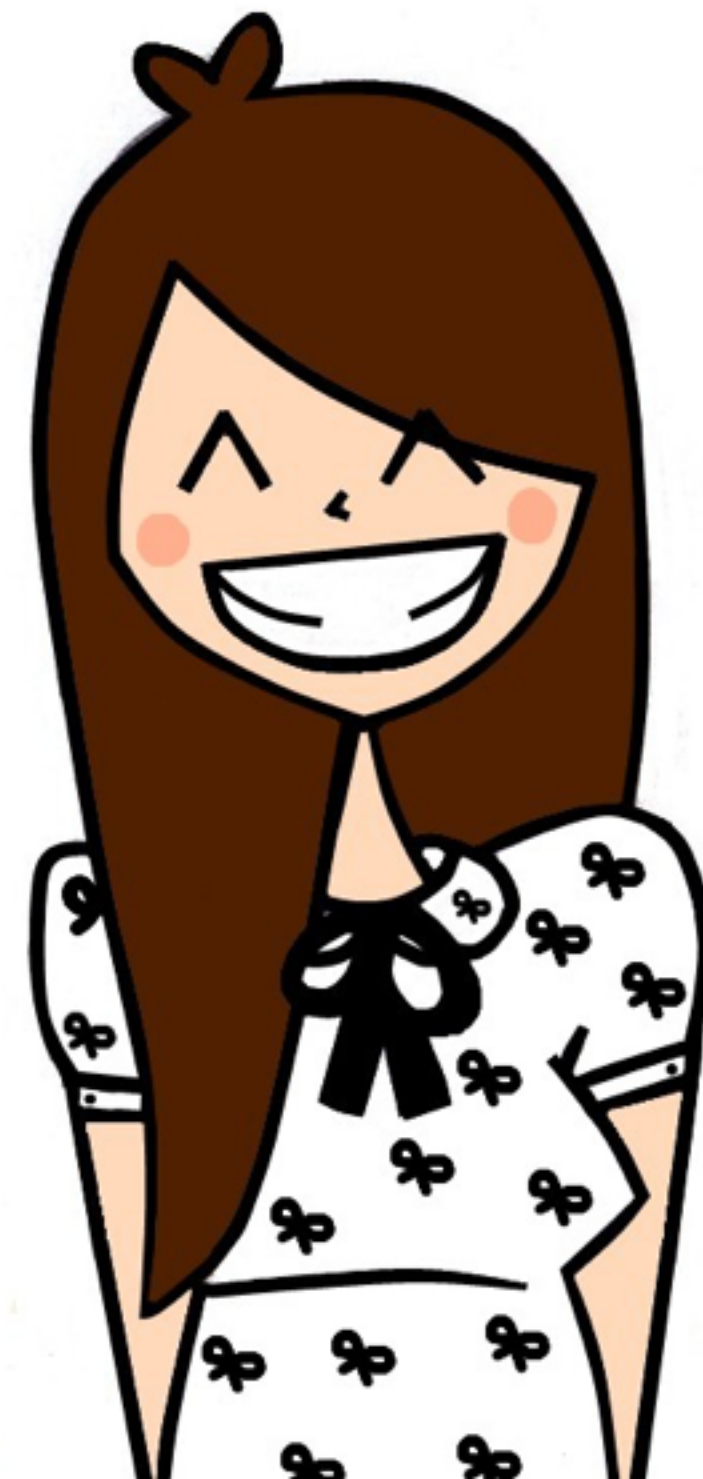


Face Recognition in **JS**

diana miron

1. who ?

- who am I
- what I do
- JSgirls & scope



2. what ?

Face Recognition != Face detection

lib **clmtrackr.js** (constrained local models)

3. how ?

Acquisition

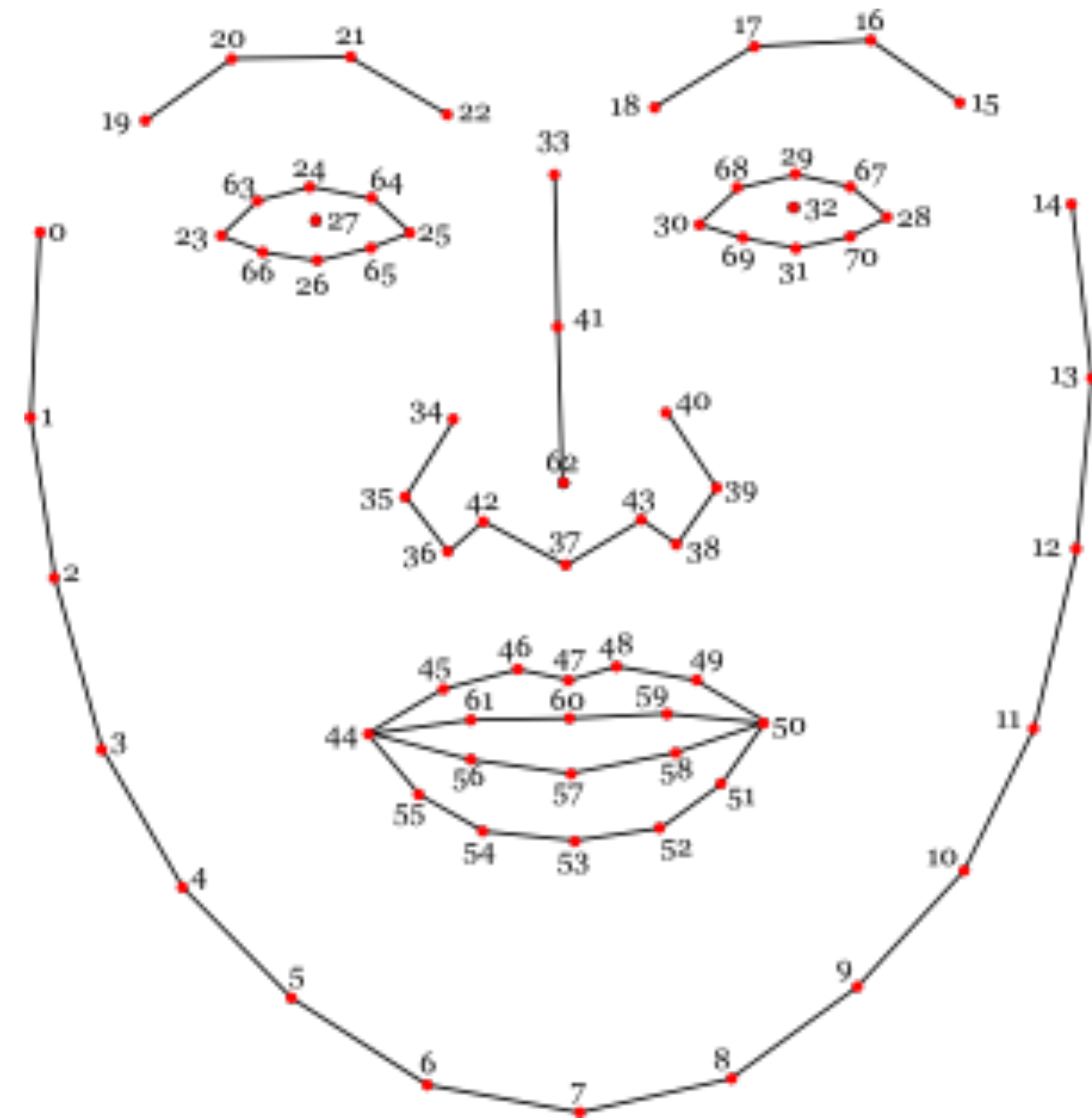
(Detection, Tracking of face-like images)

Feature extraction

(Segmentation, alignment
& normalization of the face image)

Recognition

- OpenCV
- PCA algorithm



4. conclusions

- MediaDevices.getUserMedia() in Chrome
- train own model with Python (numpy scipy scikit-learn)
- bigger accuracy (2100 vertices)

5. what's next ?

- face recognition with PCA
- the advantage of software
- biometric templates
- security
- consumer behavior (intrusive)

Resources

- <https://github.com/auduno/clmtrackr>
- <https://facedetection.com/algorithms/>
- <https://vimeo.com/12774628>
- <http://www.cs.rutgers.edu/~decarlo/facetrack.html>
- <http://blog.octo.com/en/basics-face-recognition/>
- <http://home.iitk.ac.in/~draj/cs676/project/report.pdf>

Thank you !

diana@ap3.ro

www.dianadesign.ro