

# List of code

Yue Wu

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## 1 Introduction

In this document, we list the existing facial landmark detection and tracking code. Table 1 shows the software from published papers. Table 2 shows the commercial software.

## References

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Table 1: Summary of the academic software

methods	detection (d) or tracking (t)	realtime (y) or not (n)	source code (sc) or binary code (bc)	number of points	links
Stasm (ASM) [9]	d	y	sc	77	<a href="http://www.milbo.users.sonic.net/stasm/">http://www.milbo.users.sonic.net/stasm/</a>
DeMoLib (AAM, ASM etc.)	d		sc		<a href="http://staff.estem-uc.edu.au/roland/research/demolib-home/">http://staff.estem-uc.edu.au/roland/research/demolib-home/</a>
Generic AAM [12]	d	n	sc	68	<a href="http://ibug.doc.ic.ac.uk/resources/aoms-generic-face-alignment/">http://ibug.doc.ic.ac.uk/resources/aoms-generic-face-alignment/</a>
AAM in the wild [13]	d	n	sc	68	<a href="http://ibug.doc.ic.ac.uk/resources/fitting-aams-wild-iccv-2013/">http://ibug.doc.ic.ac.uk/resources/fitting-aams-wild-iccv-2013/</a>
FPLL [18]	d	n	sc	68 or 39	<a href="http://www.ics.uci.edu/~xzhu/face/">http://www.ics.uci.edu/~xzhu/face/</a>
Pose-free [17]	d	n	bc	66	<a href="http://www.research.rutgers.edu/~xiangyu/face_align.html">http://www.research.rutgers.edu/~xiangyu/face_align.html</a>
Flandmark [14]	d	y	sc	8	<a href="http://cmp.felk.cvut.cz/~uricamic/flandmark/">http://cmp.felk.cvut.cz/~uricamic/flandmark/</a>
BoRMaN [15], LEAR [8]	d	n	bc	20	<a href="http://ibug.doc.ic.ac.uk/resources/facial-point-detector-2010/">http://ibug.doc.ic.ac.uk/resources/facial-point-detector-2010/</a>
DRMF [1]	d	n	bc	66	<a href="http://ibug.doc.ic.ac.uk/resources/drmf-matlab-code-cvpr-2013/">http://ibug.doc.ic.ac.uk/resources/drmf-matlab-code-cvpr-2013/;</a>
SDM [16]	d & t	y	bc	49	<a href="http://www.humansensing.cs.cmu.edu/intraface/index.php">http://www.humansensing.cs.cmu.edu/intraface/index.php</a>
Face alignment 3000 fps [10]	d	y	sc	68	<a href="https://github.com/jwyang/face-alignment">https://github.com/jwyang/face-alignment</a>
RCPR [5]	d&t	y	sc	29	<a href="http://www.vision.caltech.edu/xpburgos/ICCV13/">http://www.vision.caltech.edu/xpburgos/ICCV13/</a>
One millisecond face alignment [7]	d	y	sc	194	<a href="http://www.csc.kth.se/~vahidk/face_ert.html">http://www.csc.kth.se/~vahidk/face_ert.html</a>
CNN [11]	d	y	bc	5	<a href="http://mmlab.ie.cuhk.edu.hk/archive/CNN_FacePoint.htm">http://mmlab.ie.cuhk.edu.hk/archive/CNN_FacePoint.htm</a>
Incremental face alignment [2]	d&t	y	bc	49	<a href="http://ibug.doc.ic.ac.uk/resources/chehra-tracker-cvpr-2014/">http://ibug.doc.ic.ac.uk/resources/chehra-tracker-cvpr-2014/</a>
Conditional regression forest [6]	d		sc	10	<a href="http://www.dantone.me/projects-2/facial-feature-detection/">http://www.dantone.me/projects-2/facial-feature-detection/</a>
CLMZ (Open-Face) [4]	d&t	y	sc	49	<a href="https://github.com/TadasBaltrusaitis/OpenFace/">https://github.com/TadasBaltrusaitis/OpenFace/</a>
CCNF [3]	d	y	sc	30	<a href="https://www.cl.cam.ac.uk/~tb346/res/ccnf.html">https://www.cl.cam.ac.uk/~tb346/res/ccnf.html</a>

Table 2: Summary of the commercial software

methods	detection (d) or track- ing (t)	realtime (y) or not (n)	trail	number of points	links
Face++	d	y	y	83/25/5	<a href="http://www.faceplusplus.com/demo-landmark/">http://www.faceplusplus.com/ demo-landmark/</a>
Betaface	d	n	y	101	<a href="http://betaface.com/wpa/index.php/demo-gallery">http://betaface.com/wpa/index.php/ demo-gallery</a>
Lambda Labs	d	y	y	6	<a href="https://lambdal.com/face-recognition-api#src">https://lambdal.com/ face-recognition-api#src</a>
Visage	d&t	y	y	51	<a href="http://visagetechologies.com/products-and-services/visagesdk/">http://visagetechologies.com/ products-and-services/visagesdk/</a>
LUXAND	d&t	y	y	66	<a href="https://www.luxand.com/facesdk/">https://www.luxand.com/facesdk/</a>

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