

COELHO VISION

RAFAEL COELHO

COELHO VISION

THIS PROJECT WAS BUILT WITH THE FOLLOWING TOOLS:



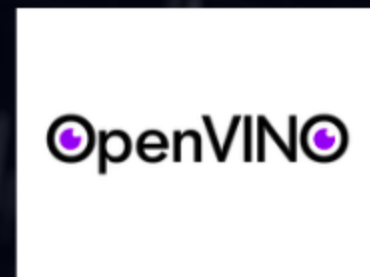
STREAMLIT



OPENCV



NUMPY



OPENVINO



MEDIAPIPE



PYTHON



ULTRALYTICS



ROBOFLOW



PYQT6

COELHO VISION is a Computer Vision & AI project, developed to show some modern applications towards industry and companies. Besides a web version, there's also a software version to solve processing latency time, making it to run faster when you use the Windows software version.

And what are all the tools of COELHO VISION?

Object Detection: Dive into the world of Object Detection, Image Classification, and Face Detection.

Image Segmentation: Experience unparalleled precision in image segmentation.

Pose Estimation: Discover tools for Gesture Recognition, Hand Landmarking, and Pose Estimation.

Live Camera: Bring all these tools to life with your notebook or smartphone camera.

Whether you're a developer, a technology enthusiast, or just curious about the latest in AI and Computer Vision, COELHO VISION is the newest and best tool for you to get to know and explore the world of Computer Vision with integrated Artificial Intelligence.

Explore the future of imagery with us. Join the vision revolution!

COELHO VISION

Author: Rafael Silva Coelho

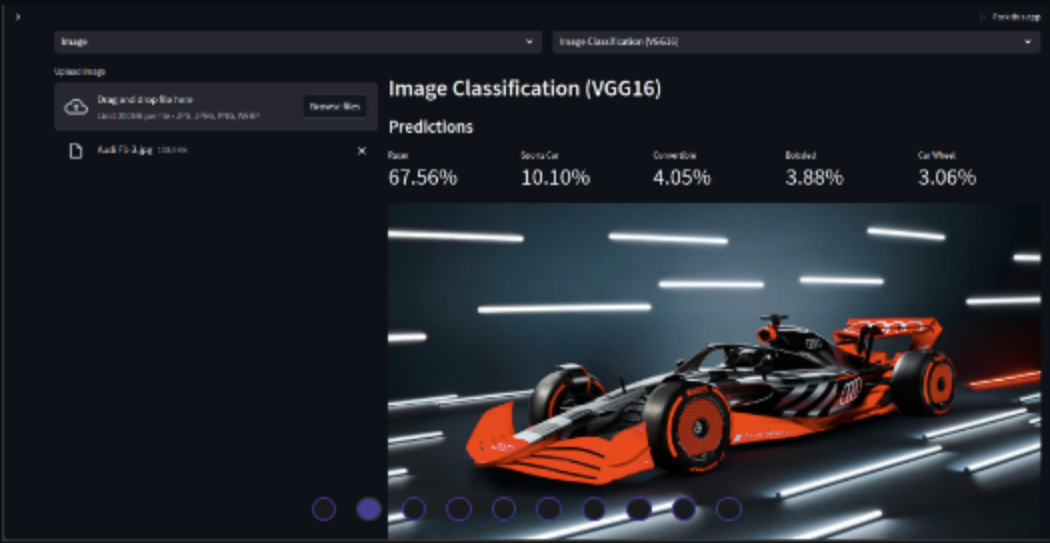
Object Detection

Image Segmentation

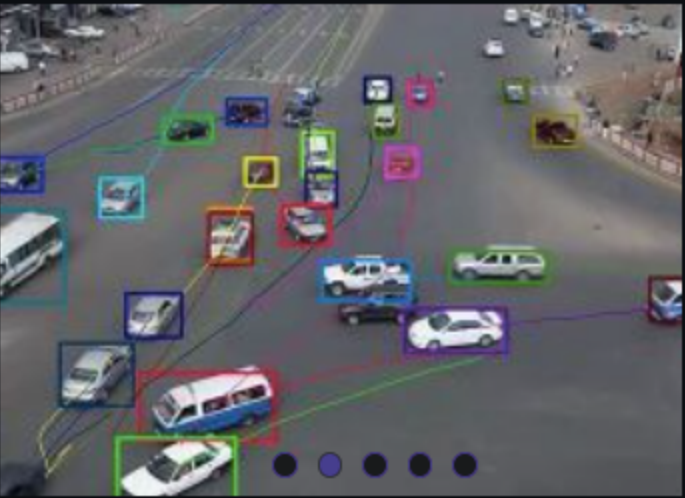
Pose Estimation

Live Camera

About Us



Object Detection



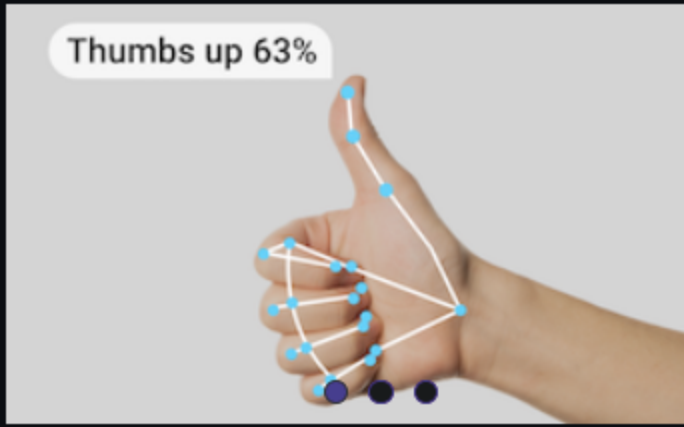
- Image Classification
- Object Detection
- Face Detector
- Object Tracking

Image Segmentation



- Image Segmentation
- Depth Estimation

Pose Estimation

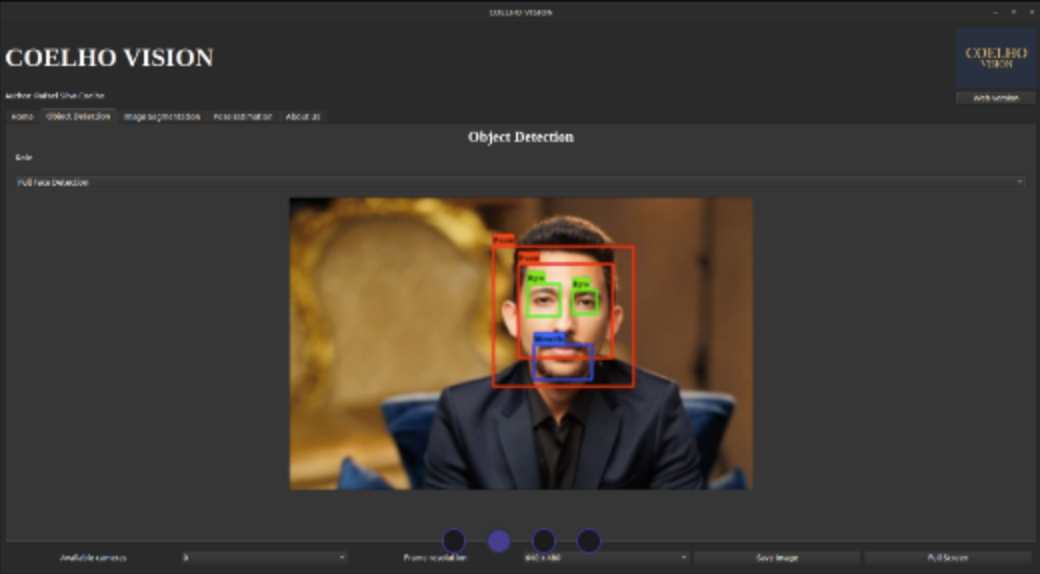


- Gesture Recognition
- Hand Landmarker
- Pose Estimation

Manage app

COELHO VISION

Software Version



COELHO VISION is an advanced Computer Vision software offering features like Object Detection, Object Tracking, Image Classification, Image Segmentation, Depth Estimation, and Pose Estimation. The Windows version provides a significant performance boost, minimizing latency and ensuring a smoother, faster experience compared to the web version.

Optimize your computer vision projects with the powerful and reliable Windows version of COELHO VISION. Click the link below to download and experience the difference!

Download COELHO VISION software (Windows version)

Disclaimer: for Linux and Mac versions, there is no software version. You must clone the source repository and run it using Python ([GitHub repository](#))

Manage app

COELHO VISION

Object Detection



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- Pose Estimation
- Live Camera
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Mode

Image

Role

Full Face Detection

Upload image

 Drag and drop file here
Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files

 53b27e89078bb2cc982130e4fb332e58.webp 40.4KB ✕

Face scale factor

1.50

1.003.00

Face min. neighbors

5

110

Eye scale factor

1.30

1.003.00

Eye min. neighbors

7

110

Mouth scale factor

3.00

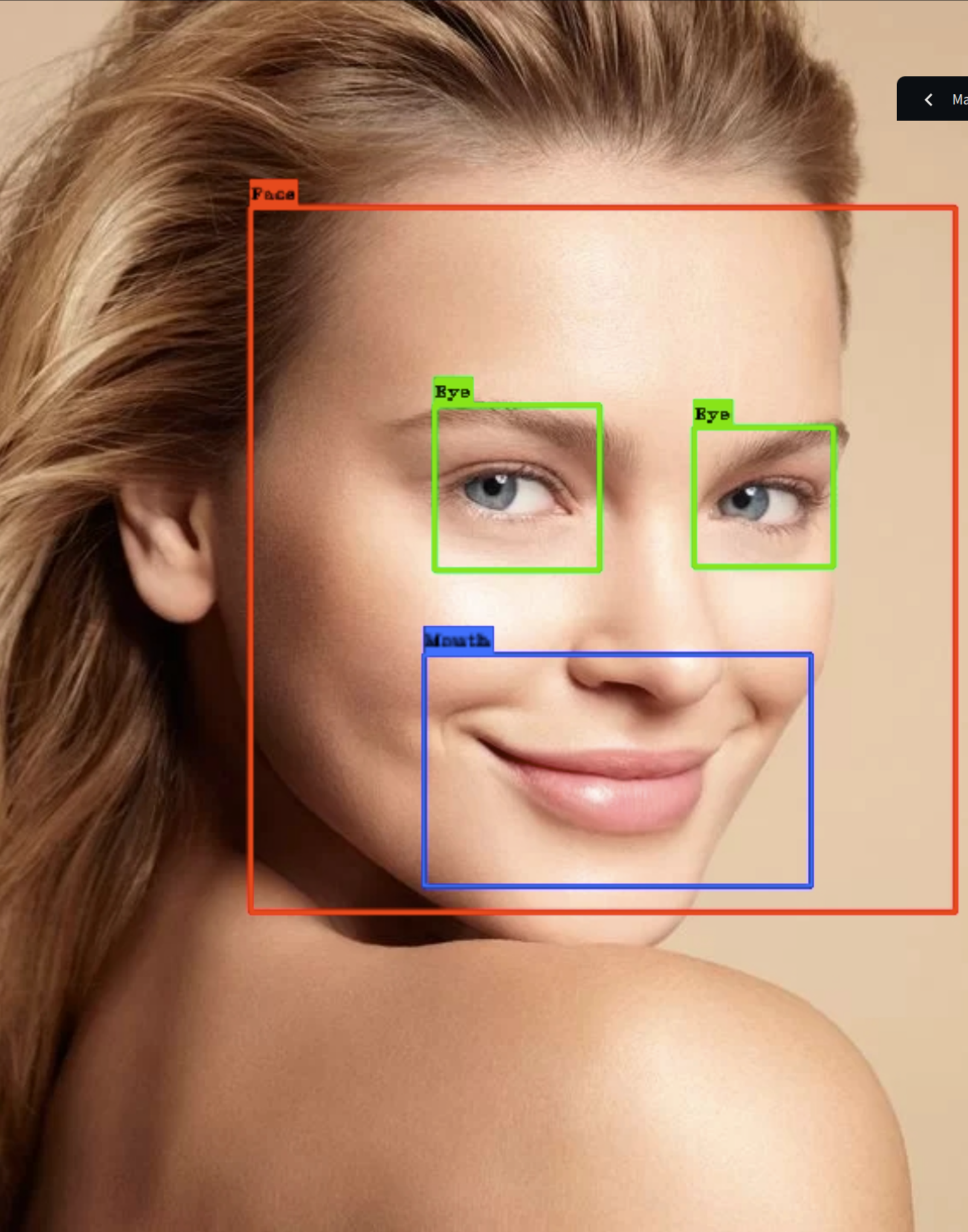
1.003.00

Mouth min. neighbors

10

110

Full Face Detection



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COELHO VISION

Object Detection



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Mode

Image

Role

Object Detection (YOLOv8)

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Browse files

0x0.webp 33.6KB

×

Object Detection (YOLOv8)



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Object Detection



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Mode

Image

Role

Object Detection (MediaPipe)

Upload image

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Browse files

 Acer-Swift-5-TOP.jpg 0.7MB

×

Set a color to bounding boxes and text



Object Detection (MediaPipe)



COELHO VISION



Object Detection

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Mode

Image

Role

Image Classification (MediaPipe)

Upload image

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Browse files

 APB-1-1024x1024.jpg 164.3KB

×

Image Classification (MediaPipe)

Perfume	Reel	Lighter	Drum
69.73%	3.73%	2.01%	1.19%



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Object Detection



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Mode

Image

Role

Face Detector (MediaPipe)

Upload image

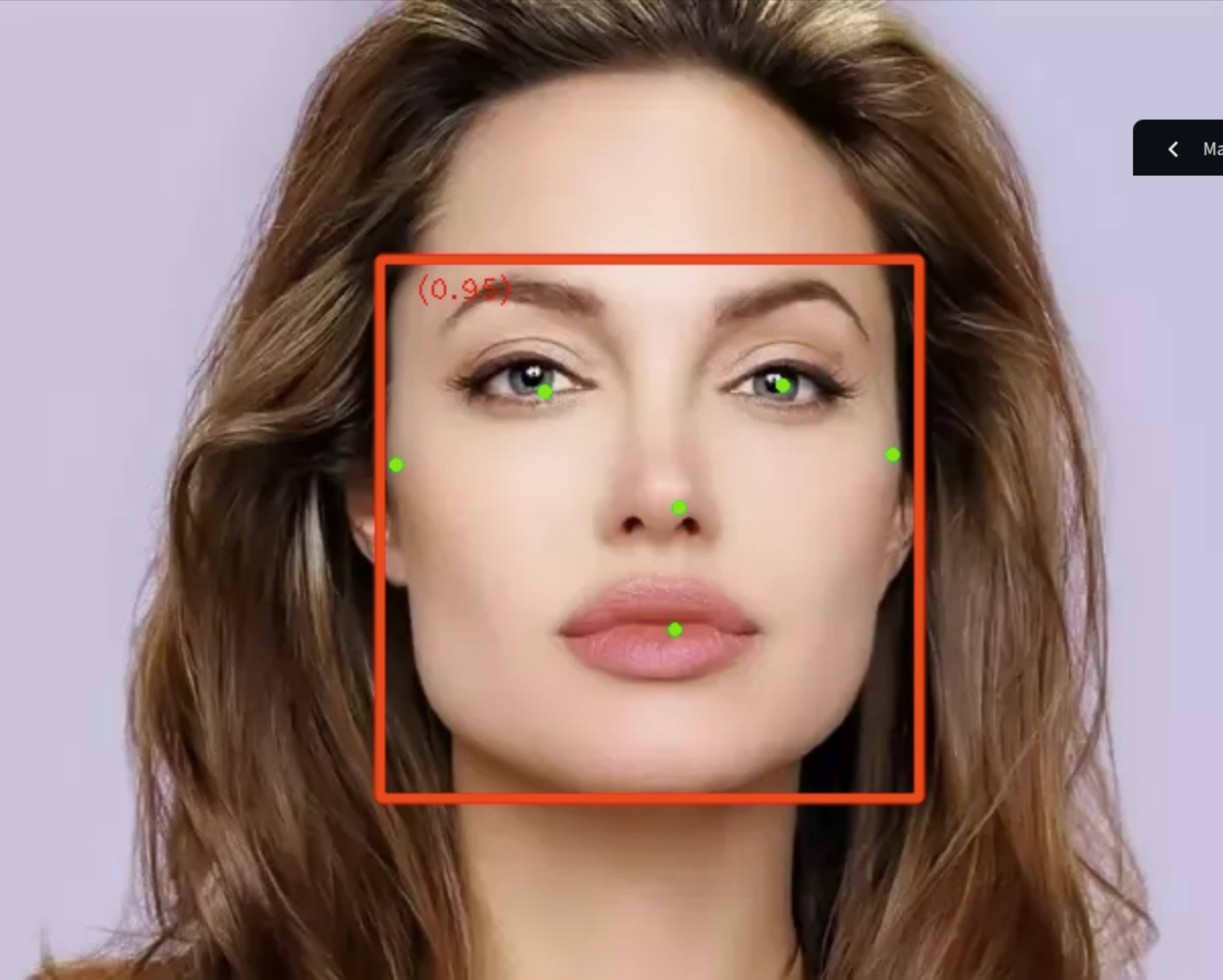
Drag and drop file here
Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files

main-qimg-0cbbecc200bd91a257854677d... 20.6KB

✕

Face Detector (MediaPipe)



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Image

Role

Object Detection (RoboFlow)

Upload image

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Browse files

Georgia5and120loop.jpg 90.7KB

×

Object Detection (RoboFlow)



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Object Detection



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Mode

Image

Role

Object Tracking (RoboFlow)

Upload image

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Browse files

traffic-autos-vehicles-road.jpg 57.1KB

×

Object Tracking (RoboFlow)



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Image Segmentation

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Mode

Image

Role

Image Segmentation (YOLOv8)

Upload image

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Gain-Valuable-Resources-Keep-a-Relation... 38.8KB

✕

Image Segmentation (YOLOv8)



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Image Segmentation

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Image

Role

Depth Estimation (OpenVINO)

Upload image

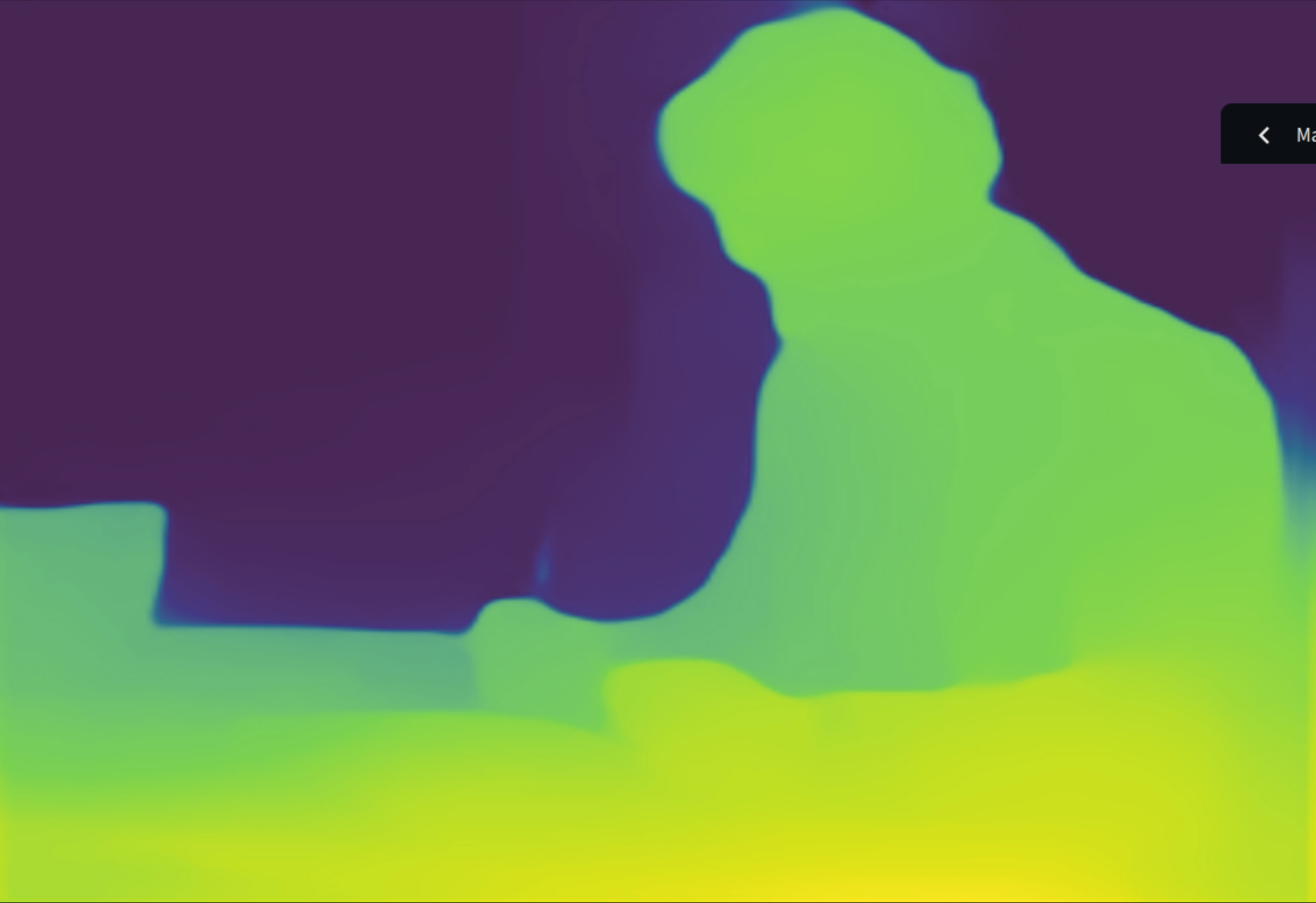
Drag and drop file here
Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files

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✕

Depth Estimation (OpenVINO)



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Image Segmentation

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Image Segmentation (MediaPipe)

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Browse files

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Set a color to background



Set a color to mask



Image Segmentation (MediaPipe)



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Image Segmentation

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Image

Role

Image Segmentation (OpenVINO)

Upload image

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Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files

 highway-driving.png 219.4KB

×

Image Segmentation (OpenVINO)



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Pose Estimation

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Mode

Image

Role

Gesture Recognition

Upload image

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Browse files

thumbsup.jpg 48.0KB

×

Gesture Recognition

Thumb Up
67.54%



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Pose Estimation



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Image

Role

Hand Landmarker

Upload image

Drag and drop file here

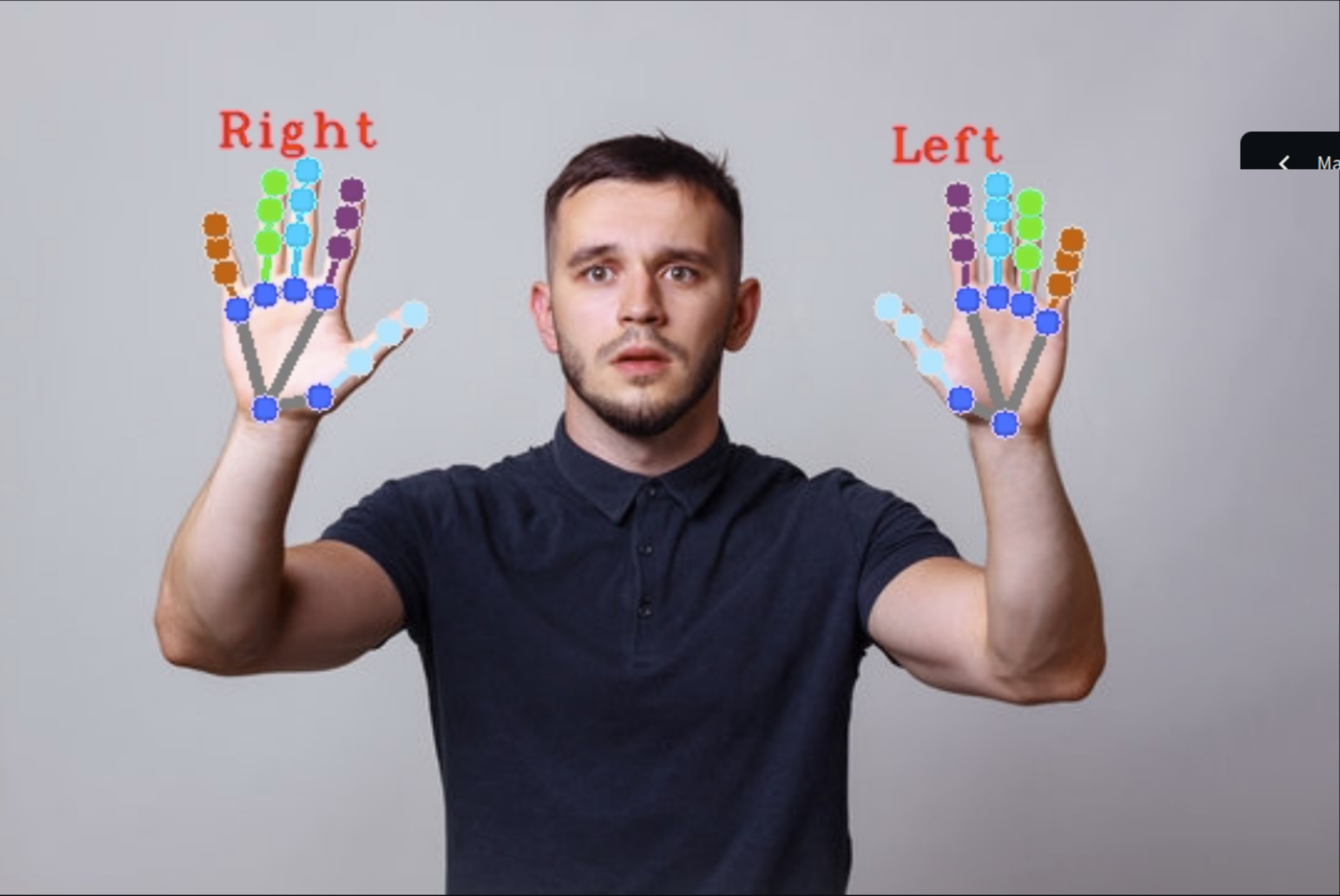
Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files

360_F_244328590_RiyvTqK8DUKDX6GSHj... 27.2KB

×

Hand Landmarker



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Pose Estimation



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Pose Estimation (MediaPipe)

Upload image

Drag and drop file here

Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files

soccer_competition_game_men_males_...

204.9KB

×

Pose Estimation (MediaPipe)



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Pose Estimation



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Pose Estimation (OpenVINO)

Upload image

Drag and drop file here
Limit 200MB per file • JPG, JPEG, PNG, WEBP

Browse files

1_4og-ItBw5dK_OHHZQ-eNLQ.jpg 35.9KB

×

Pose Estimation (OpenVINO)



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Web version

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Object Detection



Full Face Detector



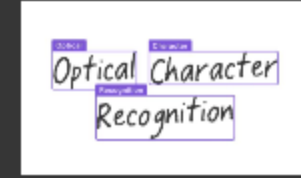
Face Detection



Object Detection



Object Tracking

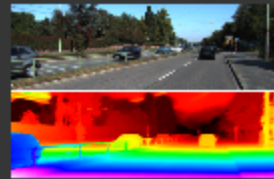


Optical Character Recognition

Image Segmentation



Image Segmentation



Depth Estimation



Semantic Segmentation

Pose Estimation



Hand Landmarker



Pose Estimation

Available cameras

0

Frame resolution

640 x 480

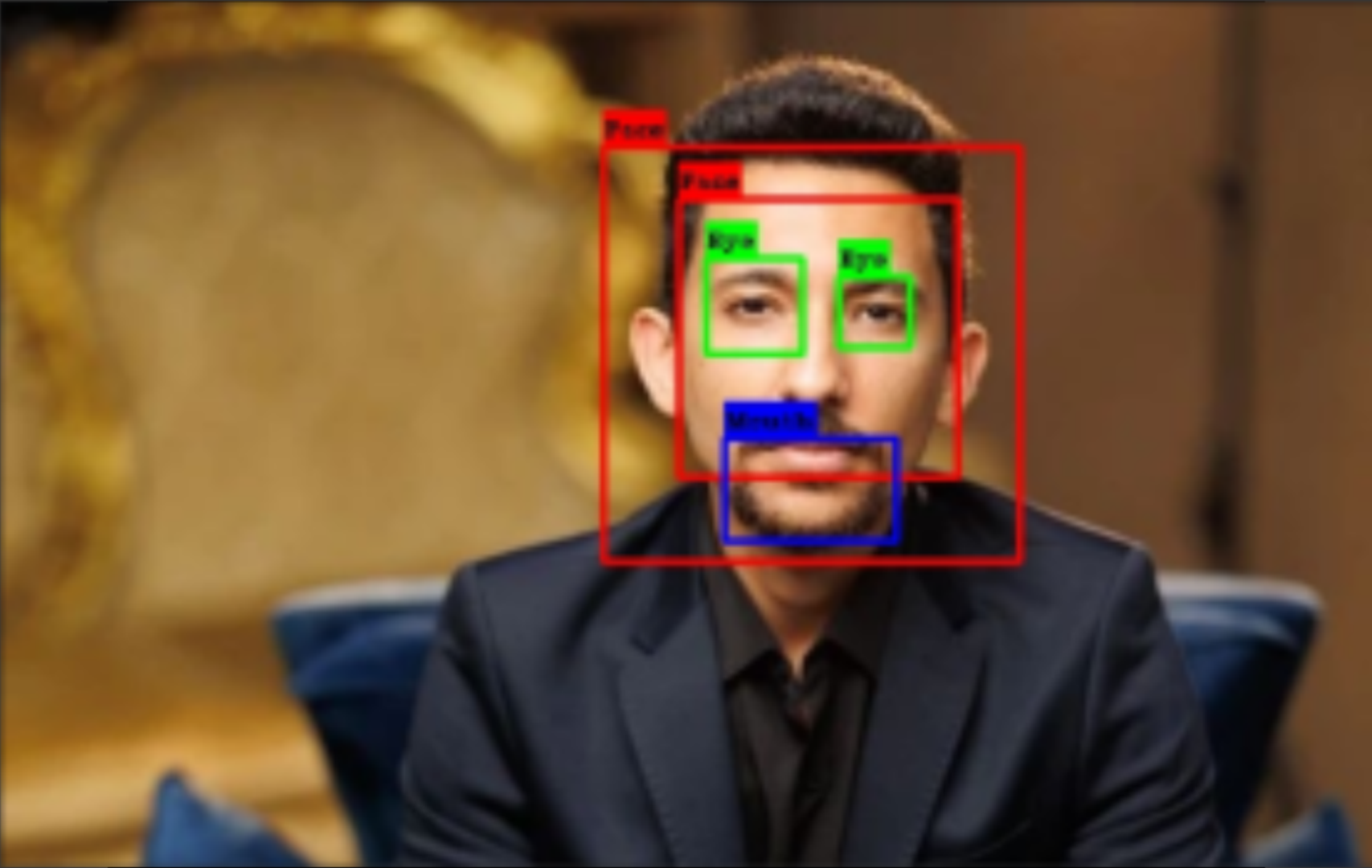
Save Image

Full Screen

Object Detection

Role

Full Face Detection



Frame resolution

640 x 480

Save Image

Close Full Screen



COELHO VISION

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COELHO
VISION

Web version

Home

Object Detection

Image Segmentation

Pose Estimation

About Us

About Us



Rafael Coelho is a Brazilian Mathematics student who is passionate for Data Science and Artificial Intelligence and works in both areas for over 4 years, with solid knowledge in technologic areas such as Machine Learning, Deep Learning, Data Science, Computer Vision, Reinforcement Learning, NLP and others.

Recently, he worked in one of the Big Four companies for over a year.

Portfolio

LinkedIn

GitHub

Other projects

COELHO
Finance

COELHO Finance



Formula 1 Analytics

COELHO
VISION

COELHO VISION

Available cameras

0

Frame resolution

640 x 480

Save Image

Full Screen

Let's work together!



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