Documentation for pixelliott / api-face

Getting started

All endpoints are available through host `api-face.pixelliott.co.uk` .

Only https is supported.

Api typically responds within a few seconds but sometimes might take longer.

Cross-Origin Resource Sharing (CORS) is only enabled for specific domains.

Please contact dev@pixelliott.co.uk for more information.

Authentication

All endpoints require authentication which is accomplished by passing a Bearer token in the Authorization header. Please email dev@pixelliott.co.uk to obtain your token.

A HTTP status code of 401 indicates invalid authentication, possible scenarios:

- You haven't sent the Authorization header
- Your Authorization header does not have Bearer prefix
- Your token is not valid

A HTTP status code of 429 indicates that you have exceeded your token daily quota. Your quota is on a per key basis. Each key may have a different quota. Your quota resets at midnight (GMT).

Example header

Authorization: Bearer 8e2d5437abf8a6e7dc0872c71ec8c182

Document change history

Version	Description	Date
V1.0	Initial version	17/01/2025
V1.1	Added authentication	01/02/2025

What endpoints are available?

Endpoint	Description
Detect	Returns a number of faces present in the given image
Index	Return a personId for a given 64x64 face
Train	Return a personId for a face in a larger image

Detect

Returns a number of faces detected within the given image

`/v1.0/detect`   `HTTP POST`

Fields

Request

key	Base 64 encoded image in either jpeg or png format

Response

faces	Array of detected faces
faces[x]	A detected face
faces[x].confidence	Confidence percentage of detected face
faces[x].width	Width in px of detected face
faces[x].height	Height in px of detected face
faces[x].left	Position from left in px of detected face
faces[x].top	Position from top in px of detected face

Example

Request

https://api-face.pixelliott.co.uk/v1.0/detect

`HTTP POST`

```
{
    "key":"data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEA
SABIAAD/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQEBQoHBwYYIDAoMDA
sKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUGBIUFRT/2wBD..."
}
```


Response

Content-Type: application/json

Status: 200 OK

```
{
    "faces": [
        {
            "confidence": 100,
            "height": 135,
            "left": 144,
            "top": 78,
            "width": 100
        }
    ]
}
```

Index

Return a personId for a given 64x64 face. Only 64px width and height JPEG encoded images are accepted. For higher accuracy, you should ensure the sent image is of a high quality and dpi.

`/v1.0/index` **HTTP POST**

Fields

	Request
key	Base 64 encoded image in either jpeg or png format

	Response
personId	Unique identifier associated with person
metadata	Metadata associated with person
metadata.name	Name of the associated person. Often the name will be "unknown".

Example

Request

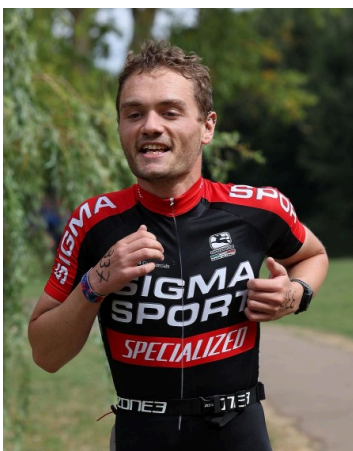https://api-face.pixelliott.co.uk/v1.0/index

HTTP POST

```
{
    "key":"data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA
AQABAAD/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQEBQoHBwYIDAoMDA
sKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUGBIUFRT/2wBDAQME
BAUEBQkFBQkUDQsNFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFB
QUFBQUFBQUFBQUFBQUFBQUFBT/wAARCABAAEADASIAAhEBAxEB..."
}
```

Response

Content-Type: application/json

Status: 200 OK

```
{
    "metadata": {
        "name": "Joey Elliott"
    },
    "personId": "870752da-c4df-417e-994d-19225e46db0a"
}
```

Train

Returns a personId for a face in a larger image. Only accepts images that contain exactly 1 face. If more than 1 face is detected in image, then an error is returned. Face detected within the image should be at least 64x64px to improve accuracy. Accepts only JPEG and PNG encoded images. Base 64 encoded image can have a maximum length of 1e6 characters.

`/v1.0/train` `HTTP POST`

Fields

Request

key	Base 64 encoded image in either jpeg or png format

Response

personId	Unique identifier associated with person
metadata	Metadata associated with person
metadata.name	Name of the associated person. Often the name will be "unknown".

Example

Request

https://api-face.pixelliott.co.uk/v1.0/train

`HTTP POST`

```
{
    "key":"data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEA
SABIAAD/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQEBQoHBwYIDAoMDA
sKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUGBIUFRT/2wBD..."
}
```

Response

Content-Type: application/json

Status: 200 OK

```
{
    "metadata": {
        "name": "Joey Elliott"
    },
    "personId": "870752da-c4df-417e-994d-19225e46db0a"
}
```