



# 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](mailto: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](mailto: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 |
| V1.2    | Changed Detect endpoint to use % instead of px | 05/03/2025 |

## 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 of detected face (%) (int)

faces[x].width

Width of detected face (%) (max 3 d.p)

faces[x].height

Height of detected face (%) (max 3 d.p)

faces[x].left

Position of detected face from left (%) (max 3 d.p)

faces[x].top

Position of detected face from top (%) (max 3 d.p)

### Example

#### Request

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

HTTP POST

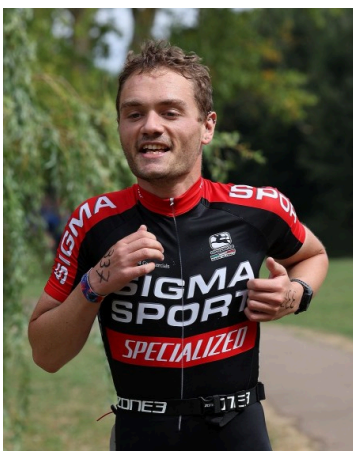
```
{
  "key": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEA
  SABIAAD/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQEBQoHBwYIDAoMDA
  sKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUUGBIUFRT/2wBD..."
}
```

#### Response

Content-Type: application/json

Status: 200 OK

```
{
  "faces": [
    {
      "confidence": 100,
      "height": 23.684,
      "left": 32.287,
      "top": 13.684,
      "width": 22.422
    }
  ]
}
```



# 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
  BAUEBQkFBQkUDQsNFBQUBQkUFBQUBQkUFBQUBQkUFBQUBQkUFBQUB
  QkUFBQUBQkUFBQUBQkUFBQUBQkUFBQUBQkUFBQUBQkUFBQUBQkUF
  BT/wAARCABAAEADASIAAhEB..."
}
```

### 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/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQEBQoH
  BwYIDAoMDAsKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8X
  GBYUUGBIUFRT/2wBD..."
}
```

### Response

Content-Type: application/json

Status: 200 OK

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

