

# SWAPI- The Star Wars API

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Sample Document

## API Overview

### Introduction

The Star Wars API (SWAPI) is a RESTful web service that provides access to data from the Star Wars universe. It allows developers to query information about various Star Wars entities such as people, planets, starships, vehicles, species, and films. SWAPI follows REST principles, making it easy to use with standard HTTP methods. It provides detailed information on characters, planets, starships, vehicles, species, and films from the Star Wars universe. The API supports case-insensitive partial matches on search fields for each resource, and results are paginated to handle large datasets efficiently. All responses are returned in JSON format, which is easy to parse and use in applications.

***The Star Wars API (SWAPI) offers resources and data related to the Star Wars universe without requiring authentication, making it easy to access.***

### Authorization / Authentication

No authentication is required to access Star Wars API (SWAPI).

### Pricing

The SWAPI is free to use.

### Prerequisites

The SWAPI is easily accessible without specific system requirements or authentication. It follows REST principles and returns data in JSON format.

### Return Status Code

- 200 OK: The request was successful.
- 400 Bad Request: The request was invalid or cannot be served.
- 404 Not Found: The requested resource could not be found.

### Throttling limit/ Rate limits

- Rate limiting is set to 10,000 API requests per day per IP address.

## API Reference

### /people/

#### Introduction

This API fetches information of all the characters within the Star Wars universe.

#### Resource

people

#### Base URL

<https://swapi.py4e.com/api/>

#### Endpoint

/people

#### Method

GET

#### Headers

- Authorization: No Auth
- Content-Type: application/json
- Request URL

<https://swapi.py4e.com/api/people>

#### Response Parameters

Parameter	Child parameters	Data Type	Values	Description
count		Int64		Total count of characters that can be stored. <i>Details required from developer</i>
next		String		- Pagination - Link to next page for overflowing records
previous		Null		- Pagination - No value in case of first page. - Link to previous page for previous records.
results	name	String		The name of a character.
	height	String		The height of a character in centimeters.
	mass	String		The mass of a character in kilograms.
	hair_color	String	<ul style="list-style-type: none"><li>• Unknown (if not known)</li><li>• n/a (if a character does not have hair)</li></ul>	The hair color of a character.
	skin_color	String		The skin color of a character.
	eye_color	String	<ul style="list-style-type: none"><li>• Unknown (if not known)</li><li>• n/a (if a character</li></ul>	The eye color of a character.

			does not have an eye)	
	birth_year	String		The birth year of a character, mentioned by using in-universe standard of <b>BBY</b> (Before the Battle of Yavin) or <b>ABY</b> (After the Battle of Yavin). <i>Note: The Battle of Yavin is a battle that occurs at the end of Star Wars episode IV: A New Hope.</i>
	gender	String	<ul style="list-style-type: none"> <li>• Male</li> <li>• Female</li> <li>• Unknown</li> <li>• n/a (if a character does not have a gender)</li> </ul>	The gender of a character.
	homeworld	String		The URL of a planet where a character was born on or inhabits. <i>Note: Refer planet API</i>
	films	String		A list of films associated with a character. Example: <a href="https://swapi.py4e.com/api/films/1/">https://swapi.py4e.com/api/films/1/</a> <a href="https://swapi.py4e.com/api/films/2/">https://swapi.py4e.com/api/films/2/</a>  <i>Note: Refer film API</i>
	species	String		A list of species a character belongs to. Example: <a href="https://swapi.py4e.com/api/species/1/">https://swapi.py4e.com/api/species/1/</a> <a href="https://swapi.py4e.com/api/species/2/">https://swapi.py4e.com/api/species/2/</a>  <i>Note: Refer species API</i>
	vehicles	String		A list of vehicles that a character has piloted. Example: <a href="https://swapi.py4e.com/api/vehicles/14/">https://swapi.py4e.com/api/vehicles/14/</a> <a href="https://swapi.py4e.com/api/vehicles/30/">https://swapi.py4e.com/api/vehicles/30/</a>  <i>Note: Refer vehicles API</i>
	starships	String		A list of starships that a character has piloted.

				Example: <a href="https://swapi.py4e.com/api/starships/12/">https://swapi.py4e.com/api/starships/12/</a> <a href="https://swapi.py4e.com/api/starships/22/">https://swapi.py4e.com/api/starships/22/</a>  <i>Note: Refer starships API</i>
	created	String		The creation date of a character in the time format of ISO 8601. Example: 2014-12-09T13:50:51.644000Z
	edited	String		The modification date of a character in the time format of ISO 8601. Example: 2014-12-20T21:17:56.891000Z
	url	String		The hypermedia URL of a character. Example: <a href="https://swapi.py4e.com/api/people/1/">https://swapi.py4e.com/api/people/1/</a>

## Response Code

```
{
  "count": 87,
  "next": "https://swapi.py4e.com/api/people/?page=2",
  "previous": null,
  "results": [
    {
      "name": "Luke Skywalker",
      "height": "172",
      "mass": "77",
      "hair_color": "blond",
      "skin_color": "fair",
      "eye_color": "blue",
      "birth_year": "19BBY",
      "gender": "male",
      "homeworld": "https://swapi.py4e.com/api/planets/1/",
      "films": [
        "https://swapi.py4e.com/api/films/1/",
        "https://swapi.py4e.com/api/films/2/",
        "https://swapi.py4e.com/api/films/3/",
        "https://swapi.py4e.com/api/films/6/",
        "https://swapi.py4e.com/api/films/7/"
      ],
      "species": [
        "https://swapi.py4e.com/api/species/1/"
      ],
      "vehicles": [
        "https://swapi.py4e.com/api/vehicles/14/",
        "https://swapi.py4e.com/api/vehicles/30/"
      ]
    }
  ]
}
```

```
    ],
    "starships": [
      "https://swapi.py4e.com/api/starships/12/",
      "https://swapi.py4e.com/api/starships/22/"
    ],
    "created": "2014-12-09T13:50:51.644000Z",
    "edited": "2014-12-20T21:17:56.891000Z",
    "url": "https://swapi.py4e.com/api/people/1/"
  },
  {
    "name": "C-3PO",
    "height": "167",
    "mass": "75",
    "hair_color": "n/a",
    "skin_color": "gold",
    "eye_color": "yellow",
    "birth_year": "112BBY",
    "gender": "n/a",
    "homeworld": "https://swapi.py4e.com/api/planets/1/",
    "films": [
      "https://swapi.py4e.com/api/films/1/",
      "https://swapi.py4e.com/api/films/2/",
      "https://swapi.py4e.com/api/films/3/",
      "https://swapi.py4e.com/api/films/4/",
      "https://swapi.py4e.com/api/films/5/",
      "https://swapi.py4e.com/api/films/6/"
    ],
    "species": [
      "https://swapi.py4e.com/api/species/2/"
    ],
    "vehicles": [],
    "starships": [],
    "created": "2014-12-10T15:10:51.357000Z",
    "edited": "2014-12-20T21:17:50.309000Z",
    "url": "https://swapi.py4e.com/api/people/2/"
  },
  {
    "name": "R2-D2",
    "height": "96",
    "mass": "32",
    "hair_color": "n/a",
    "skin_color": "white, blue",
    "eye_color": "red",
    "birth_year": "33BBY",
    "gender": "n/a",
    "homeworld": "https://swapi.py4e.com/api/planets/8/",
    "films": [
      "https://swapi.py4e.com/api/films/1/",
      "https://swapi.py4e.com/api/films/2/",
      "https://swapi.py4e.com/api/films/3/",
      "https://swapi.py4e.com/api/films/4/",
```

```
"https://swapi.py4e.com/api/films/5/",
"https://swapi.py4e.com/api/films/6/",
"https://swapi.py4e.com/api/films/7/"
],
"species": [
  "https://swapi.py4e.com/api/species/2/"
],
"vehicles": [],
"starships": [],
"created": "2014-12-10T15:11:50.376000Z",
"edited": "2014-12-20T21:17:50.311000Z",
"url": "https://swapi.py4e.com/api/people/3/"
},
{
  "name": "Darth Vader",
  "height": "202",
  "mass": "136",
  "hair_color": "none",
  "skin_color": "white",
  "eye_color": "yellow",
  "birth_year": "41.9BBY",
  "gender": "male",
  "homeworld": "https://swapi.py4e.com/api/planets/1/",
  "films": [
    "https://swapi.py4e.com/api/films/1/",
    "https://swapi.py4e.com/api/films/2/",
    "https://swapi.py4e.com/api/films/3/",
    "https://swapi.py4e.com/api/films/6/"
  ],
  "species": [
    "https://swapi.py4e.com/api/species/1/"
  ],
  "vehicles": [],
  "starships": [
    "https://swapi.py4e.com/api/starships/13/"
  ],
  "created": "2014-12-10T15:18:20.704000Z",
  "edited": "2014-12-20T21:17:50.313000Z",
  "url": "https://swapi.py4e.com/api/people/4/"
},
{
  "name": "Leia Organa",
  "height": "150",
  "mass": "49",
  "hair_color": "brown",
  "skin_color": "light",
  "eye_color": "brown",
  "birth_year": "19BBY",
  "gender": "female",
  "homeworld": "https://swapi.py4e.com/api/planets/2/",
  "films": [
```



```
"https://swapi.py4e.com/api/films/1/",
"https://swapi.py4e.com/api/films/2/",
"https://swapi.py4e.com/api/films/3/",
"https://swapi.py4e.com/api/films/6/",
"https://swapi.py4e.com/api/films/7/"
],
"species": [
  "https://swapi.py4e.com/api/species/1/"
],
"vehicles": [
  "https://swapi.py4e.com/api/vehicles/30/"
],
"starships": [],
"created": "2014-12-10T15:20:09.791000Z",
"edited": "2014-12-20T21:17:50.315000Z",
"url": "https://swapi.py4e.com/api/people/5/"
},
{
  "name": "Owen Lars",
  "height": "178",
  "mass": "120",
  "hair_color": "brown, grey",
  "skin_color": "light",
  "eye_color": "blue",
  "birth_year": "52BBY",
  "gender": "male",
  "homeworld": "https://swapi.py4e.com/api/planets/1/",
  "films": [
    "https://swapi.py4e.com/api/films/1/",
    "https://swapi.py4e.com/api/films/5/",
    "https://swapi.py4e.com/api/films/6/"
  ],
  "species": [
    "https://swapi.py4e.com/api/species/1/"
  ],
  "vehicles": [],
  "starships": [],
  "created": "2014-12-10T15:52:14.024000Z",
  "edited": "2014-12-20T21:17:50.317000Z",
  "url": "https://swapi.py4e.com/api/people/6/"
},
{
  "name": "Beru Whitesun lars",
  "height": "165",
  "mass": "75",
  "hair_color": "brown",
  "skin_color": "light",
  "eye_color": "blue",
  "birth_year": "47BBY",
  "gender": "female",
  "homeworld": "https://swapi.py4e.com/api/planets/1/",
```

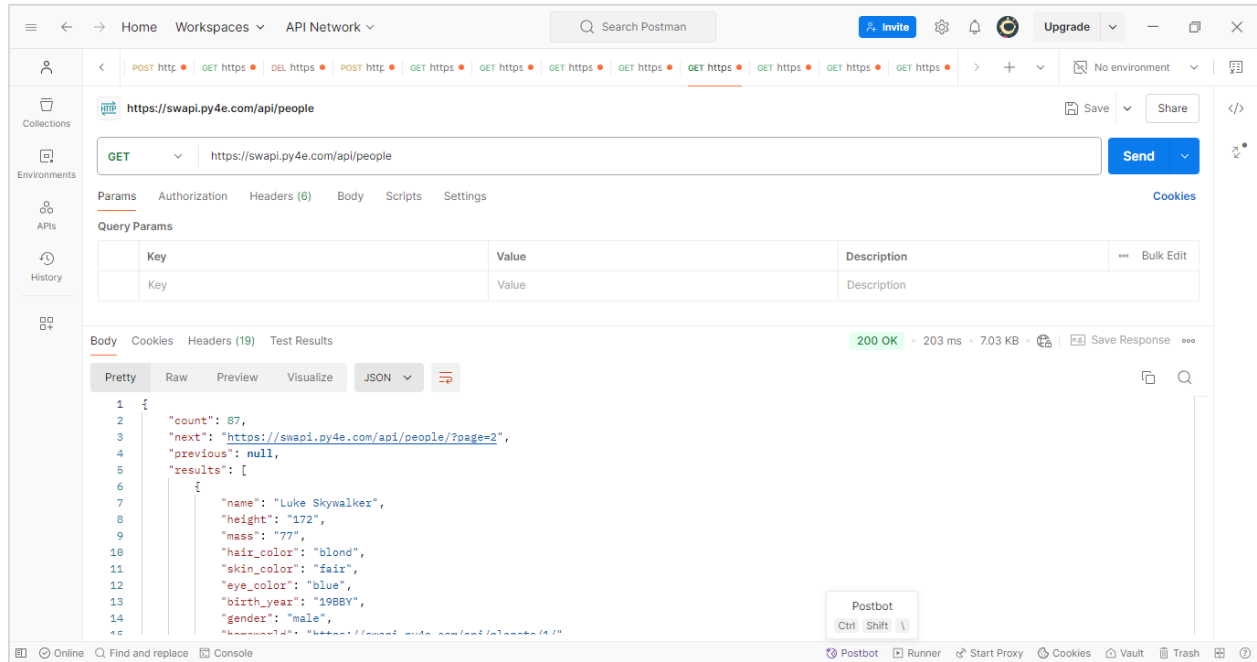
```
"films": [  
  "https://swapi.py4e.com/api/films/1/",  
  "https://swapi.py4e.com/api/films/5/",  
  "https://swapi.py4e.com/api/films/6/"  
],  
"species": [  
  "https://swapi.py4e.com/api/species/1/"  
],  
"vehicles": [],  
"starships": [],  
"created": "2014-12-10T15:53:41.121000Z",  
"edited": "2014-12-20T21:17:50.319000Z",  
"url": "https://swapi.py4e.com/api/people/7/"  
},  
{  
  "name": "R5-D4",  
  "height": "97",  
  "mass": "32",  
  "hair_color": "n/a",  
  "skin_color": "white, red",  
  "eye_color": "red",  
  "birth_year": "unknown",  
  "gender": "n/a",  
  "homeworld": "https://swapi.py4e.com/api/planets/1/",  
  "films": [  
    "https://swapi.py4e.com/api/films/1/"  
  ],  
  "species": [  
    "https://swapi.py4e.com/api/species/2/"  
  ],  
  "vehicles": [],  
  "starships": [],  
  "created": "2014-12-10T15:57:50.959000Z",  
  "edited": "2014-12-20T21:17:50.321000Z",  
  "url": "https://swapi.py4e.com/api/people/8/"  
},  
{  
  "name": "Biggs Darklighter",  
  "height": "183",  
  "mass": "84",  
  "hair_color": "black",  
  "skin_color": "light",  
  "eye_color": "brown",  
  "birth_year": "24BBY",  
  "gender": "male",  
  "homeworld": "https://swapi.py4e.com/api/planets/1/",  
  "films": [  
    "https://swapi.py4e.com/api/films/1/"  
  ],  
  "species": [  
    "https://swapi.py4e.com/api/species/1/"
```

```
    ],
    "vehicles": [],
    "starships": [
      "https://swapi.py4e.com/api/starships/12/"
    ],
    "created": "2014-12-10T15:59:50.509000Z",
    "edited": "2014-12-20T21:17:50.323000Z",
    "url": "https://swapi.py4e.com/api/people/9/"
  },
  {
    "name": "Obi-Wan Kenobi",
    "height": "182",
    "mass": "77",
    "hair_color": "auburn, white",
    "skin_color": "fair",
    "eye_color": "blue-gray",
    "birth_year": "57BBY",
    "gender": "male",
    "homeworld": "https://swapi.py4e.com/api/planets/20/",
    "films": [
      "https://swapi.py4e.com/api/films/1/",
      "https://swapi.py4e.com/api/films/2/",
      "https://swapi.py4e.com/api/films/3/",
      "https://swapi.py4e.com/api/films/4/",
      "https://swapi.py4e.com/api/films/5/",
      "https://swapi.py4e.com/api/films/6/"
    ],
    "species": [
      "https://swapi.py4e.com/api/species/1/"
    ],
    "vehicles": [
      "https://swapi.py4e.com/api/vehicles/38/"
    ],
    "starships": [
      "https://swapi.py4e.com/api/starships/48/",
      "https://swapi.py4e.com/api/starships/59/",
      "https://swapi.py4e.com/api/starships/64/",
      "https://swapi.py4e.com/api/starships/65/",
      "https://swapi.py4e.com/api/starships/74/"
    ],
    "created": "2014-12-10T16:16:29.192000Z",
    "edited": "2014-12-20T21:17:50.325000Z",
    "url": "https://swapi.py4e.com/api/people/10/"
  }
]
}
```

## Response Status Codes

- 200 OK: Everything is valid

- 400: Invalid status value
- 404: Not found



[/people/:id/](#)

## Introduction

This API fetches the information of a character within the Star Wars universe based on the ID.

## Resource

people

## Base URL

<https://swapi.py4e.com/api/>

## Endpoint

`/people/{id}`

## Method

GET

## Headers

- Authorization: No Auth
- Content-Type: application/json

## Request URL

<https://swapi.py4e.com/api/people/{id}/>

## Example URL

<https://swapi.py4e.com/api/people/10/>

## Path Parameter

Parameter	Data Type	Required/Optional	Values	Description
Id	Int64	Required		Unique number given to a character within the Star Wars universe.

## Response Parameters

Parameter	Child Parameters	Data Type	Values	Description
name		String		The name of a character.
height		String		The height of a character in centimeters.
mass		String		The mass of a character in kilograms.
hair_color		String		The hair color of a character.
skin_color		String		The skin color of a character.
eye_color		String		The eye color of a character.
birth_year		String		The birth year of a character, mentioned by using in-universe standard of <b>BBY</b> (Before the Battle of Yavin) or <b>ABY</b> (After the Battle of Yavin). <i>Note: The Battle of Yavin is a battle that occurs at the end of Star Wars episode IV: A New Hope.</i>
gender		String		The gender of a character.
homeworld		String		The URL of a planet where a character was born on or inhabits. <i>Note: Refer planet API</i>
films		String		A list of films associated with a character. Example: <a href="https://swapi.py4e.com/api/films/1/">https://swapi.py4e.com/api/films/1/</a> <a href="https://swapi.py4e.com/api/films/2/">https://swapi.py4e.com/api/films/2/</a>  <i>Note: Refer film API</i>
species		String		A list of species a character belongs to. Example: <a href="https://swapi.py4e.com/api/species/1/">https://swapi.py4e.com/api/species/1/</a> <a href="https://swapi.py4e.com/api/species/2/">https://swapi.py4e.com/api/species/2/</a>  <i>Note: Refer species API</i>

vehicles		String		A list of vehicles that a character has piloted. Example: <a href="https://swapi.py4e.com/api/vehicles/14/">https://swapi.py4e.com/api/vehicles/14/</a> <a href="https://swapi.py4e.com/api/vehicles/30/">https://swapi.py4e.com/api/vehicles/30/</a>  <i>Note: Refer vehicles API</i>
starships		String		A list of starships that a character has piloted. Example: <a href="https://swapi.py4e.com/api/starships/12/">https://swapi.py4e.com/api/starships/12/</a> <a href="https://swapi.py4e.com/api/starships/22/">https://swapi.py4e.com/api/starships/22/</a>  <i>Note: Refer starships API</i>
created		String		The creation date of a character in the time format of ISO 8601. Example: 2014-12-09T13:50:51.644000Z
edited		String		The modification date of a character in the time format of ISO 8601. Example: 2014-12-20T21:17:56.891000Z
url		String		The hypermedia URL of a character. Example: <a href="https://swapi.py4e.com/api/people/1/">https://swapi.py4e.com/api/people/1/</a>

## Response Code

```
{
  "name": "Obi-Wan Kenobi",
  "height": "182",
  "mass": "77",
  "hair_color": "auburn, white",
  "skin_color": "fair",
  "eye_color": "blue-gray",
  "birth_year": "57BBY",
  "gender": "male",
  "homeworld": "https://swapi.py4e.com/api/planets/20/",
  "films": [
    "https://swapi.py4e.com/api/films/1/",
    "https://swapi.py4e.com/api/films/2/",
    "https://swapi.py4e.com/api/films/3/",
    "https://swapi.py4e.com/api/films/4/",
    "https://swapi.py4e.com/api/films/5/",
    "https://swapi.py4e.com/api/films/6/"
  ]
}
```

```
  ],
  "species": [
    "https://swapi.py4e.com/api/species/1/"
  ],
  "vehicles": [
    "https://swapi.py4e.com/api/vehicles/38/"
  ],
  "starships": [
    "https://swapi.py4e.com/api/starships/48/",
    "https://swapi.py4e.com/api/starships/59/",
    "https://swapi.py4e.com/api/starships/64/",
    "https://swapi.py4e.com/api/starships/65/",
    "https://swapi.py4e.com/api/starships/74/"
  ],
  "created": "2014-12-10T16:16:29.192000Z",
  "edited": "2014-12-20T21:17:50.325000Z",
  "url": "https://swapi.py4e.com/api/people/10/"
}
```

## Response Status Codes

- 200 OK: Everything is valid
- 400: Invalid status value
- 404: Not found

