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Google Lens API

API uptime 99.762%

Our Google Lens API allows you to scrape results from the Google Lens page when performing an image search. The results related to the image could contain visual matches and other data.

The API is accessed through the following endpoint: [/search?](/search?engine=google_lens)

`engine=google_lens`. A user may query the following:

https://serpapi.com/search?engine=google_lens utilizing a `GET`

request. Head to the [playground](#) for a live and interactive demo.

New updates on Google Lens

We have introduced new search capability to Google Lens API. You can now include the `q` parameter along with the usual image search parameters to refine the search results.

In addition, we have discontinued the `page_token` parameter and replaced it with the new `type` parameter. This change makes the API more intuitive and easier to use when performing searches for Product, Exact Matches, and Visual Matches.

API Parameters

Search Query

`url`

Required

Parameter defines the URL of an image to perform the Google Lens search.

Localization

`hl`

Optional

Parameter defines the language to use for the Google Lens search. It's a two-letter language code. (e.g., `en` for English, `es` for Spanish, or `fr` for French). Head to the [Google languages page](#) for a full list of supported Google languages.

`country`

Optional

Parameter defines the specific country location to use for the Google Lens search. It's a two-letter country code. (e.g., `us` for United States, `fr` for France, or `de` for Germany). Head to the [Google Lens countries page](#) for a full list of supported Google Lens countries.

Search Type

`type`

Required

Parameter defines the type of search to perform. By default, the search type is `all`.

Available options:

`all` - All`products` - Products`exact_matches` - Exact Matches`visual_matches` - Visual Matches.

Advanced Parameters

`q`

Optional

Parameter defines the search query to use along in the Google Lens search. It is only applicable when `type` is set to `all`, `visual_matches`, or `products`.

`safe`

Optional

Parameter defines the level of filtering for adult content. It can be set to `active` or `off`, by default Google will blur explicit content.

Serpapi Parameters

`engine`

Required

Set parameter to `google_lens` to use the Google Lens API engine.`no_cache`

Optional

Parameter will force SerpApi to fetch the Google Lens results even if a cached version is already present. A cache is served only if the query and all parameters are exactly the same. Cache expires after 1h. Cached searches are free, and are not counted towards your searches per month. It can be set to `false` (default) to allow results from the cache, or `true` to disallow results from the cache. `no_cache` and `async` parameters should not be used together.

`async`

Optional

Parameter defines the way you want to submit your search to SerpApi. It can be set to `false` (default) to open an HTTP connection and keep it open until you get your search results, or `true` to just submit your search to SerpApi and retrieve them later. In this case, you'll need to use our [Searches Archive API](#) to retrieve your results. `async` and `no_cache` parameters should not be used together. `async` should not be used on accounts with [Ludicrous Speed](#) enabled.

`zero_trace`

Optional

Enterprise only. Parameter enables [ZeroTrace mode](#). It can be set to `false` (default) or `true`. Enable this mode to skip storing search parameters, search files, and search metadata on our servers. This may make debugging more difficult.

`api_key`

Required

Parameter defines the SerpApi private key to use.

`output`

Optional

Parameter defines the final output you want. It can be set to `json` (default) to get a structured `JSON` of the results, or `html` to get the raw html retrieved.

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API Results

JSON Results

JSON output includes structured data for "Visual matches" and "Related content".

A search status is accessible through `search_metadata.status`. It flows this way: `Processing` -> `Success` || `Error`. If a search has failed, `error` will contain an error message. `search_metadata.id` is the search ID inside SerpApi.

HTML Results

HTML output is useful to debug JSON results or support features not supported yet by SerpApi.
HTML output gives you the raw HTML results from Google Lens.

API Examples

Example with `url`: <https://i.imgur.com/HBrB8p0.png>

All Products Visual matches Exact matches About this image

ⓘ Results for people are limited



Related search



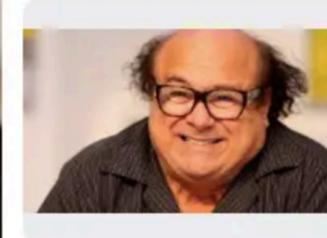
YouTube
Reveal all about Jackie Jackson - YouTube



W Wikipedia
Danny DeVito — Wikipédia
See exact matches >



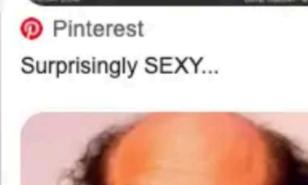
X
Wiccan x Hulkling on X:
"Danny DeVito y Joe Pesci..."



Instagram
Happy Birthday to the amazing
Danny DeVito today! ❤️ Wi...



Genius
Danny DeVito — Magnum Dong Inc Lyrics | Genius Lyrics



Pinterest
Surprisingly SEXY...



Deadline
Danny DeVito Says 'Twins 2' Is Off The Table, But 'Throw...



Terra
É de espantar: Ator teve quase 90 anos de vida ativa no cine...



Imgur
Batman returns Memes and

↔ GET

```
1 | https://serpapi.com/search.json?
engine=google_lens&url=https://i.imgur.com/HBrB8p0.png
```

↔ Code to integrate

Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   engine: "google_lens",
5 |   url: "https://i.imgur.com/HBrB8p0.png",
6 |   api_key:
7 | "a85853e3401522bd0ddb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
8 |
9 |
10 | results = client.search
|   visual_matches = results[:visual_matches]
```

{ } JSON Example

↗

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```

    "status": "Success",
    "json_endpoint": "https://serpapi.com/searches/f6000d11bb444c9d/6380ad5dc",
    "created_at": "2025-01-03 01:10:13 UTC",
    "processed_at": "2025-01-03 01:10:13 UTC",
    "google_lens_url": "https://lens.google.com/uploadbyurl?url=https://i.imgur.com/HBrB8p0.png",
    "raw_html_file": "https://serpapi.com/searches/f6000d11bb444c9d/6380ad5dc",
    "total_time_taken": 2.75
},
"search_parameters": {
    "engine": "google_lens",
    "url": "https://i.imgur.com/HBrB8p0.png"
},
"visual_matches": [
{
    "position": 1,
    "title": "Danny DeVito - Wikipédia",
    "link": "https://en.wikipedia.org/wiki/Danny_DeVito",
    "source": "Wikipedia",
    "source_icon": "https://serpapi.com/searches/6777d9c3c3b5a0ac7f1a42bc/i",
    "thumbnail": "https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcR1_",
    "thumbnail_width": 245,
    "thumbnail_height": 206,
    "image": "https://upload.wikimedia.org/wikipedia/commons/2/21/Danny_DeVito.jpg",
    "image_width": 2216,
    "image_height": 1864
},
{
    "position": 2,
    "title": "Reveal all about Jackie Jackson - YouTube",
    "link": "https://www.youtube.com/watch?v=DjekY9jYAK",
    "source": "YouTube",
    "source_icon": "https://serpapi.com/searches/6777d9c3c3b5a0ac7f1a42bc/i",
    "thumbnail": "https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcTac_",
    "thumbnail_width": 168,
    "thumbnail_height": 299,
    "image": "https://i.ytimg.com/vi/URMSH0g0_48/hq720.jpg?sqp=-oaymwEhCK4F",
    "image_width": 386,
    "image_height": 686
},
{
    "position": 3,
    "title": "Wiccan x Hulkling on X: \"Danny DeVito y Joe Pesci recha...",
    "link": "https://twitter.com/disneyfansontw1/status/136389447982510080",
    "source": "X",
    "source_icon": "https://serpapi.com/searches/6777d9c3c3b5a0ac7f1a42bc/i",
    "thumbnail": "https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcQZ_",
    "thumbnail_width": 255,
    "thumbnail_height": 198,
    "image": "https://pbs.twimg.com/media/Eu2Gy8hXAAU_48Z.jpg",
    "image_width": 400,
    "image_height": 310
},
...
],
"related_content": [
{
    "query": "Danny DeVito",
    "link": "https://lens.google.com/search?sca_esv=b9d59735341c7a85&hl=en&country=jp",
    "thumbnail": "https://serpapi.com/searches/6777d9c3c3b5a0ac7f1a42bc/i",
    "serpapi_link": "https://serpapi.com/search.json?device=desktop&engine=google_lens&hl=en&country=jp&url=https://s3.zoomer.ge/zoomer-images/thumbs/0170510_apple-macbook-pro-13-inch-2022-mmeh3lla-m2-chip-8gb256gb-ssd-space-grey-apple-m25nm-apple-8-core-gpu_550.jpeg"
}
]
}

```

Example with `country: jp (Japan)`

Searches made with `country` parameter return results with more localized data.
For example, `country=jp` will mostly return results with ¥ (Japanese Yen).

All Products Visual matches Exact matches About this image

Related searches

- MacBook Pro 13-inch
- MacBook Pro
- Apple MacBook Pro
- Yahoo! JAPAN MacBook Pro Retinaディスプレイ 13.3 MNEJ3JA [スペースグレイ]
- Amazon.co.jp: 【整備済み品】Apple MacBook Pro M2 2022 (13インチ, 8GB RAM, 256GB SSD) - Apple M2 8コアと10コアGPU
- Amazon.jp: 【整備済み品】Apple MacBook Pro M2 2022 (13インチ, 8GB RAM, 256GB SSD) - Apple M2 8コアと10コアGPU
- バックマーケット MacBook Pro 13 インチ (2022) - Apple M2 8コアと10コアGPU

See exact matches >

* Check website for latest pricing and availability

🔗 GET

```

1 | https://serpapi.com/search.json?
  engine=google_lens&hl=en&country=jp&url=https://s3.zoomer.ge/zoomer-
  images/thumbs/0170510_apple-macbook-pro-13-inch-2022-
  mmeh3lla-m2-chip-8gb256gb-ssd-space-grey-apple-m25nm-apple-
  8-core-gpu_550.jpeg

```

🔗 Code to integrate

Ruby

```

1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   engine: "google_lens",
5 |   hl: "en",
6 |   country: "jp",
7 |   url: "https://s3.zoomer.ge/zoomer-
8 | images/thumbs/0170510_apple-macbook-pro-13-inch-2022-
9 | mmeh3lla-m2-chip-8gb256gb-ssd-space-grey-apple-m25nm-apple-
10 | 8-core-gpu_550.jpeg",
11 |   api_key:
12 | "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
)
results = client.search
visual_matches = results[:visual_matches]

```

🔗 JSON Example



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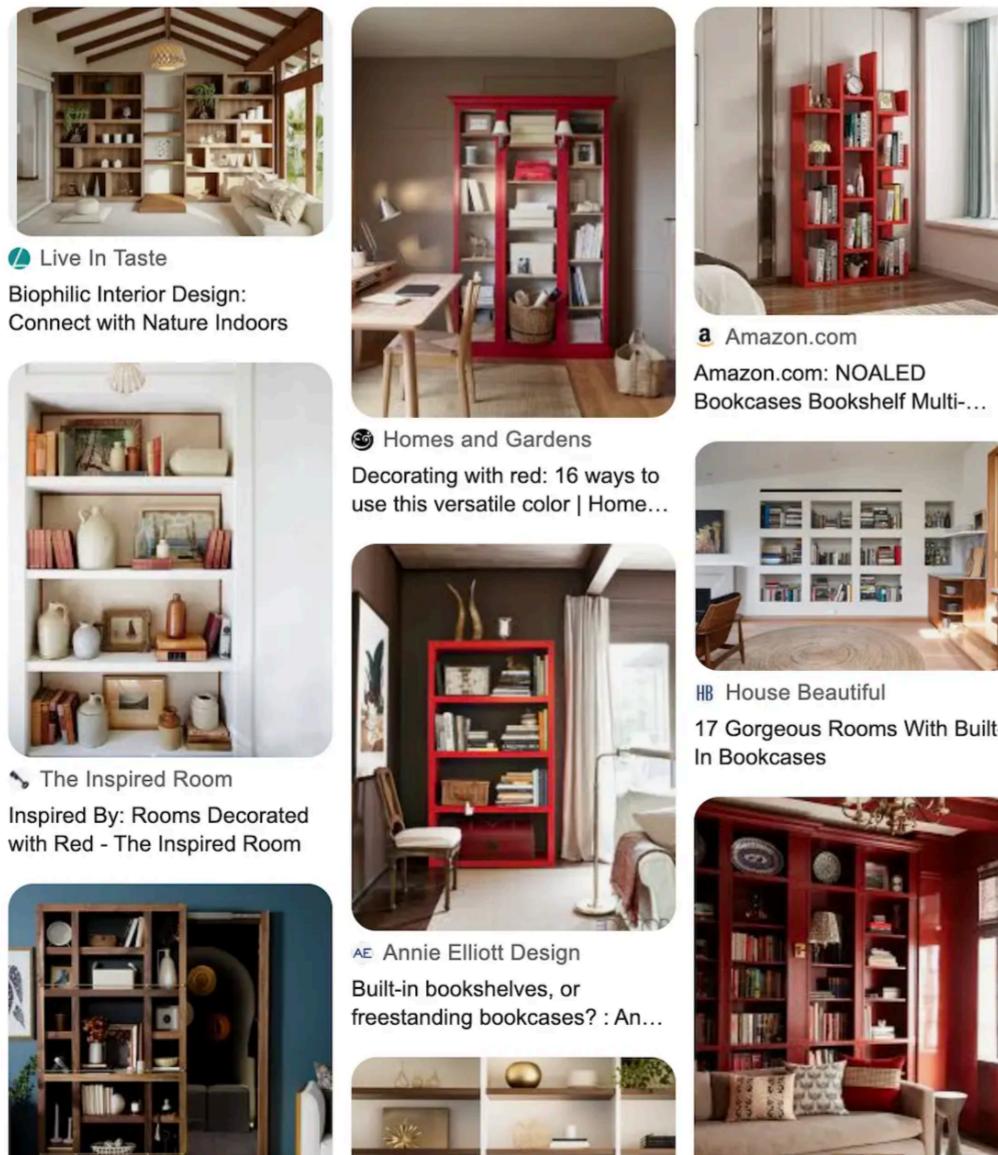


```
{
  "position": 1,
  "title": "13インチMacBook Pro [ ] 8コアCPUと10コアGPUを したApple",
  "link": "https://www.apple.com/jp/shop/product/G16S6J/A/Refurbished-13-",
  "source": "Apple",
  "source_icon": "https://serpapi.com/searches/6777d881c3b5a0ac802e7c1c/i",
  "thumbnail": "https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQ91",
  "thumbnail_width": 225,
  "thumbnail_height": 225,
  "image": "https://store.storeimages.cdn-apple.com/8567/as-images.apple.",
  "image_width": 1144,
  "image_height": 1144
},
{
  "position": 2,
  "title": "MacBook Pro Retinaディスプレイ 13.3 MNEJ3J/A [スペースグレイ] : 45",
  "link": "https://store.shopping.yahoo.co.jp/light-hikari/4549995335798",
  "source": "Yahoo! JAPAN",
  "source_icon": "https://serpapi.com/searches/6777d881c3b5a0ac802e7c1c/i",
  "price": {
    "value": "¥170,280*",
    "extracted_value": 170280,
    "currency": "¥"
  },
  "in_stock": true,
  "thumbnail": "https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcSGC",
  "thumbnail_width": 225,
  "thumbnail_height": 225,
  "image": "https://item-shopping.c.yimg.jp/i/n/light-hikari_454999533579",
  "image_width": 300,
  "image_height": 300
},
{
  "position": 3,
  "title": "Amazon.co.jp: み Apple MacBook Pro M2 2022 (13インチ",
  "link": "https://www.amazon.co.jp/Apple-MacBook-13インチ-8コアCPU-10コアG",
  "source": "Amazon.jp",
  "source_icon": "https://serpapi.com/searches/6777d881c3b5a0ac802e7c1c/i",
  "price": {
    "value": "¥169,000*",
    "extracted_value": 169000,
    "currency": "¥"
  },
  "condition": "Used",
  "thumbnail": "https://encrypted-tbn3.gstatic.com/images?q=tbn:ANd9GcQBV",
  "thumbnail_width": 225,
  "thumbnail_height": 225,
  "image": "https://m.media-amazon.com/images/I/61vkJ9V6-dL.jpg",
  "image_width": 2560,
  "image_height": 2560
},
...
],
...
}
]
```

Example with Red

The parameter can be used along with the image search to refine the search results.

Visual matches



↔ GET

```
1 | https://serpapi.com/search.json?
  engine=google_lens&url=https://www.decorilla.com/online-decorating/wp-content/uploads/2022/01/Biophilic-interior-design-by-Wanda-P.jpg&q=Red
```

↔ Code to integrate

Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   engine: "google_lens",
5 |   url: "https://www.decorilla.com/online-decorating/wp-content/uploads/2022/01/Biophilic-interior-design-by-Wanda-P.jpg",
6 |   q: "Red",
7 |   api_key:
8 |     "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
9 | )
10 |
11 | results = client.search
12 | visual_matches = results[:visual_matches]
```

{} JSON Example



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- [Google Maps Reviews API](#)

- [Google News API](#)

- [Google News Light API](#)

- [Google Patents API](#)

- [Google Play Store API](#)

- [Google Related Questions API](#)

- [Google Reverse Image API](#)

- [Google Scholar API](#)

- [Google Shopping API](#)

- [Google Shopping Light API](#)

- [Google Light Fast API](#)

- [Google Short Videos API](#)

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- [Google Trends API](#)

- [Google Videos API](#)

- [Google Videos Light API](#)

- [Amazon Search API](#)

- [Apple App Store API](#)

- [Baidu Search API](#)

- [Bing Images API](#)

- [Bing Copilot API](#)

- [Bing Search API](#)

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- [eBay Search API](#)

- [Facebook Profile API](#)

- [Naver Search API](#)

- [The Home Depot Search API](#)

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- [Yahoo! Search API](#)

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```
{
  "position": 1,
  "title": "Biophilic Interior Design: Connect with Nature Indoors",
  "link": "https://liveintaste.com/what-is-biophilic-interior-design/",
  "source": "Live In Taste",
  "source_icon": "https://serpapi.com/searches/682432e505e13765bb228654/i",
  "thumbnail": "https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcT25",
  "thumbnail_width": 194,
  "thumbnail_height": 259,
  "image": "https://i0.wp.com/liveintaste.com/wp-content/uploads/2024/05",
  "image_width": 480,
  "image_height": 640
},
{
  "position": 2,
  "title": "Decorating with red: 16 ways to use this versatile color | Home & Garden",
  "link": "https://www.homesandgardens.com/interior-design/decorating-with-red",
  "source": "Homes and Gardens",
  "source_icon": "https://serpapi.com/searches/682432e505e13765bb228654/i",
  "thumbnail": "https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcTLC",
  "thumbnail_width": 259,
  "thumbnail_height": 194,
  "image": "https://cdn.mos.cms.futurecdn.net/y64McL2RYaUAb3FbewrdEY.jpg",
  "image_width": 2666,
  "image_height": 2000
},
{
  "position": 3,
  "title": "Amazon.com: NOALED Bookcases Bookshelf Multi-Function Bookshelf Cabinet Storage Unit with Open Shelves for Living Room, Kitchen, Office, Bedroom, Entryway, White, 22.5 x 12.5 x 72.5 inches (WxDxH) (NOALED-Bookcases-Bookshelf-Multi-Functi",
  "link": "https://www.amazon.com/NOALED-Bookcases-Bookshelf-Multi-Functi",
  "source": "Amazon.com",
  "source_icon": "https://serpapi.com/searches/682432e505e13765bb228654/i",
  "thumbnail": "https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcRXK",
  "thumbnail_width": 225,
  "thumbnail_height": 224,
  "image": "https://m.media-amazon.com/images/I/61--qwgAeJS._AC_UF894,1000_.jpg",
  "image_width": 895,
  "image_height": 894
},
...
],
...
}
}
```

Example with `ai_overview`

Some searches may include AI Overview content accessible through a separate request. In these cases we return `page_token` for the associated request and `serpapi_link` for the corresponding SerpApi search using our [Google AI Overview API](#).

The rendered HTML will show "Searching..." — this is expected behaviour and can be ignored.

`page_token` and `serpapi_link` will expire within 4 minutes of the search and should be used immediately..

AI Mode Products Visual matches All About this image

◆ Searching...

↔ GET

```
1 | https://serpapi.com/search.json?
engine=google_lens&url=https://i.imgur.com/HBrB8p0.png&q=who+is+him
```

↔ Code to integrate

| Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   engine: "google_lens",
5 |   url: "https://i.imgur.com/HBrB8p0.png",
6 |   q: "who is him?",
7 |   api_key:
8 | "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
9 |
10| results = client.search
11| ai_overview = results[:ai_overview]
```

↔ JSON Example



API DASHBOARD

- [Your Account](#)
- [Your API Metrics](#)
- [Your Searches](#)
- [Your Playground](#)

API DOCUMENTATION

- [Google Search API](#)
- [Google Light Search API](#)
- [Google Ads Transparency API](#)
- [Google AI Mode API](#)
- [Google AI Overview API](#)
- [Google Autocomplete API](#)
- [Google Events API](#)
- [Google Forums API](#)
- [Google Finance API](#)
- [Google Flights API](#)
- [Google Hotels API](#)
- [Google Images API](#)
- [Google Images Light API](#)
- [Google Immersive Product API](#)
- [Google Jobs API](#)
- [Google Lens API](#)
- [Exact Matches](#)
- [Image Sources API](#)
- [Products](#)
- [Visual Matches](#)
- [Google Local API](#)
- [Google Local Services API](#)
- [Google Maps API](#)
- [Google Maps Reviews API](#)
- [Google News API](#)
- [Google News Light API](#)
- [Google Patents API](#)
- [Google Play Store API](#)
- [Google Related Questions API](#)
- [Google Reverse Image API](#)
- [Google Scholar API](#)
- [Google Shopping API](#)
- [Google Shopping Light API](#)
- [Google Light Fast API](#)
- [Google Short Videos API](#)
- [Google Travel Explore API](#)
- [Google Trends API](#)
- [Google Videos API](#)
- [Google Videos Light API](#)
- [Amazon Search API](#)
- [Apple App Store API](#)
- [Baidu Search API](#)
- [Bing Images API](#)
- [Bing Copilot API](#)
- [Bing Search API](#)
- [DuckDuckGo Search API](#)
- [DuckDuckGo Light API](#)
- [eBay Search API](#)
- [Facebook Profile API](#)
- [Naver Search API](#)
- [The Home Depot Search API](#)
- [Tripadvisor Search API](#)
- [Walmart Search API](#)
- [Yahoo! Search API](#)
- [Yandex Search API](#)
- [Yelp Search API](#)
- [YouTube Search API](#)
- [Extra APIs](#)
- [Status and Error Codes](#)



```

"page_token": "2XC3j3icxZbdkqpGEMfv8xipijcnxw9E1z1VKpnQAVEHdFV9sZSwBEBUT",
"serpapi_link": "https://serpapi.com/search.json?engine=google_ai_overview",
},
"visual_matches": [
{
"position": 1,
"title": "Danny DeVito - Wikipedia",
"link": "https://en.wikipedia.org/wiki/Danny_DeVito",
"source": "Wikipedia",
"source_icon": "https://serpapi.com/searches/68dd016c0d0b29032e40d9f2/i",
"thumbnail": "https://encrypted-tbn3.gstatic.com/images?q=tbn:ANd9GcQn1",
"thumbnail_width": 245,
"thumbnail_height": 206,
"image": "https://upload.wikimedia.org/wikipedia/commons/thumb/2/21/Dar",
"image_width": 297,
"image_height": 250
},
{
"position": 2,
"title": "Danny DeVito",
"link": "https://www2.gvsu.edu/priskh/lifedanny.html",
"source": "Grand Valley State University",
"source_icon": "https://serpapi.com/searches/68dd016c0d0b29032e40d9f2/i",
"thumbnail": "https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcTrk",
"thumbnail_width": 183,
"thumbnail_height": 275,
"image": "https://farm5.staticflickr.com/4110/4843205008_9d1baf0739_o.j",
"image_width": 3168,
"image_height": 4752
},
{
"position": 3,
"title": "Danny DeVito - Biography - IMDb",
"link": "https://www.imdb.com/name/nm0000362/bio/",
"source": "IMDb",
"source_icon": "https://serpapi.com/searches/68dd016c0d0b29032e40d9f2/i",
"thumbnail": "https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcTrk",
"thumbnail_width": 266,
"thumbnail_height": 190,
"image": "https://m.media-amazon.com/images/M/MV5BMTE5MjM5MzM1BMl5Bc",
"image_width": 400,
"image_height": 286
},
...
],
...
}
]
}

```

JSON structure overview

```

{
...
"ai_overview": {
  "page_token": "String - Token for the AI Overview block",
  "serpapi_link": "String - URL to the corresponding SerpApi search",
},
"visual_matches": [
{
  "position": "Integer - Position of the image",
  "title": "String - Title of the image",
  "link": "String - Source URL of the website containing the image",
  "source": "String - Displayed URL of the website containing the image",
  "source_icon": "String - Icon URL of the source website containing the image",
  "rating": "Float - Rating of the item in the image",
  "reviews": "Integer - Number of reviews of the item in the image",
  "price": {
    "value": "String - Price of the item in the image",
    "extracted_value": "Float - Extracted price of the item in the image",
    "currency": "String - Price currency of the item in the image"
  },
  "in_stock": "Boolean - Availability of the item in the image",
  "condition": "String - Condition of the item in the image",
  "thumbnail": "String - URL to the image thumbnail",
  "thumbnail_width": "Integer - width of the image thumbnail",
  "thumbnail_height": "Integer - height of the image thumbnail",
  "image": "String - URL to the full image",
  "image_width": "Integer - width of the full image",
  "image_height": "Integer - height of the full image",
},
...
],
"related_content": [
{
  "query": "String - Related image query",
  "link": "String - URL to the Google search",
  "thumbnail": "String - URL to the image thumbnail",
  "serpapi_link": "String - URL to the SerpApi search"
},
...
]
}
}

```