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Google AI Overview Results API

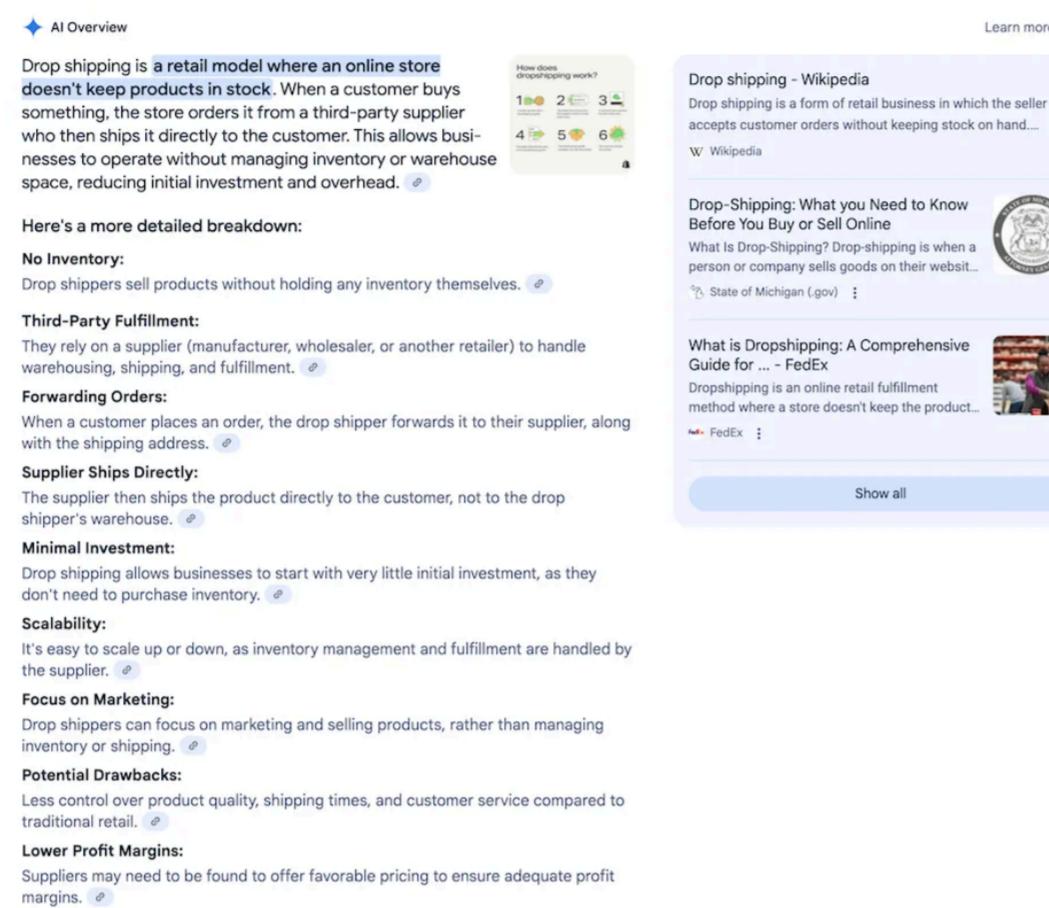
For some searches, Google search results includes an AI Overview block. SerpApi is able to scrape, extract and make sense of this information. Currently, the AI Overview block is only seen for English searches (`hl=en`) with a limited range of countries (`gl`).

Google sometimes requires an additional request to retrieve AI Overview results. See the [extra request example](#) and our [Google AI Overview API](#) to understand how to handle these cases.

API Examples

Typical result

Typical result containing headings, paragraphs, lists (with and without title) and a thumbnail.



</> GET

1 | <https://serpapi.com/search.json?q=drop+shipping>

</> Code to integrate

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "drop shipping",
5 |   api_key:
6 |   "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 | )
8 |
9 | results = client.search
10 | ai_overview = results[:ai_overview]
```

{ } JSON Example

| Ruby

↗

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G Google Light Search API**G** Google Ads Transparency API**G** Google AI Mode API**G** Google AI Overview API

/

```

"text_blocks": [
  {
    "type": "paragraph",
    "snippet": "Drop shipping is a retail model where an online store doe",
    "snippet_highlighted_words": [
      "a retail model where an online store doesn't keep products in stock"
    ],
    "reference_indexes": [
      0,
      1,
      3
    ]
  },
  {
    "type": "heading",
    "snippet": "Here's a more detailed breakdown:"
  },
  {
    "type": "list",
    "list": [
      {
        "title": "No Inventory:",
        "snippet": "Drop shippers sell products without holding any inventory",
        "reference_indexes": [
          1,
          3
        ]
      }
    ],
    "title": "Third-Party Fulfillment:",
    "snippet": "They rely on a supplier (manufacturer, wholesaler, or distributor) to handle the physical storage and shipping of products",
    "reference_indexes": [
      2,
      3
    ]
  },
  {
    "title": "Forwarding Orders:",
    "snippet": "When a customer places an order, the drop shipper forwards it to the supplier for fulfillment",
    "reference_indexes": [
      2,
      3
    ]
  },
  ...
],
"thumbnail": "https://serpapi.com/searches/66c53c7915afff0a2a48fc6c/image",
"references": [
  {
    "title": "Drop shipping - Wikipedia",
    "link": "https://en.wikipedia.org/wiki/Drop_shipping",
    "snippet": "Drop shipping is a form of retail business in which the seller does not hold any inventory of the products they sell",
    "source": "Wikipedia",
    "index": 0
  },
  {
    "title": "Drop-Shipping: What you Need to Know Before You Buy or Sell",
    "link": "https://www.michigan.gov/consumerprotection/protect-yourself/dropshipping",
    "snippet": "What Is Drop-Shipping? Drop-shipping is when a person or company sells products on behalf of another company that does not have its own inventory",
    "source": "State of Michigan (.gov)",
    "index": 1
  },
  {
    "title": "What is Dropshipping: A Comprehensive Guide for ... - FedEx",
    "link": "https://www.fedex.com/en-us/small-business/articles-insights/dropshipping",
    "snippet": "Dropshipping is an online retail fulfillment method where a business does not keep the products it sells in inventory",
    "source": "FedEx",
    "index": 2
  },
  ...
]
},
...
]
}

```

Example with a list containing thumbnails

The screenshot shows a search results page for "successful quotes". It features a list of quotes from various historical figures, each accompanied by a small portrait and a snippet of the quote. The quotes include: Albert Einstein ("Strive not to be a success, but rather to be of value"), Nelson Mandela ("It always seems impossible until it's done"), Herman Melville ("It is better to fail in originality than to succeed in imitation"), Howard Schultz ("Success is best when it's shared"), Frank Ocean ("Work hard in silence, let your success be your noise"), Vince Lombardi Jr. ("The only place where success comes before work is in the dictionary"), Colin Powell ("There are no secrets to success. It is the result of preparation, hard work, and learning from failure"), Winston Churchill ("Success is walking from failure to failure with no loss of enthusiasm"), and Thomas Jefferson ("I find that the harder I work, the more luck I seem to have"). There are also links to external sources like Canva, Team Building, Forbes India, and Forbes.

Generative AI is experimental.

**GET**1 | <https://serpapi.com/search.json?q=successful+quotes>**Code to integrate**

```

1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "successful quotes",
5 |   api_key:
6 |   "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 | )
8 |
9 | results = client.search
  ai_overview = results[:ai_overview]

```

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```
"text_blocks": [
    {
        "type": "heading",
        "snippet": "Here are some quotes about success:",
        "reference_indexes": [
            1
        ]
    },
    {
        "type": "list",
        "list": [
            {
                "title": "Albert Einstein",
                "thumbnail": "https://serpapi.com/searches/66c5457015afff0a2878cf",
                "snippet": "\"Strive not to be a success, but rather to be of value\"",
                "reference_indexes": [
                    1
                ]
            },
            {
                "title": "Nelson Mandela",
                "thumbnail": "https://serpapi.com/searches/66c5457015afff0a2878cf",
                "snippet": "\"It always seems impossible until it's done\"",
                "reference_indexes": [
                    1
                ]
            },
            {
                "title": "Herman Melville",
                "thumbnail": "https://serpapi.com/searches/66c5457015afff0a2878cf",
                "snippet": "\"It is better to fail in originality than to succeed in imitation\"",
                "reference_indexes": [
                    1,
                    6
                ]
            },
            ...
        ]
    }
],
"references": [
    {
        "title": "50 inspiring quotes about success",
        "link": "https://www.canva.com/learn/quotes-about-success/#:~:text=Inspiring%20quotes%20about%20success%20from%20famous%20people%20and%20historical%20figures",
        "snippet": "I find that the harder I work, the more luck I seem to have.",
        "source": "Canva",
        "index": 0
    },
    {
        "title": "125 Motivational Success Quotes for Business - Team Building",
        "link": "https://teambuilding.com/blog/success-quotes",
        "snippet": "Sep 27, 2022 – What are some good success quotes for work?",
        "source": "Team Building",
        "index": 1
    },
    {
        "title": "Life Quotes: 100+ Motivational Quotes To Inspire Your Positive Outlook",
        "link": "https://www.forbesindia.com/article/explainers/motivational-life-quotes",
        "snippet": "May 31, 2024 – The only place where success comes before effort is in your mind.",
        "source": "Forbes India",
        "index": 2
    },
    ...
]
```

Example with nested lists

AI Overview Learn more

Drop shipping is a business model where a company sells products online without keeping them in stock. When a customer places an order, the company forwards the order and payment to a supplier or manufacturer, who then ships the product directly to the customer.



Here are some steps to start a dropshipping business:

1. Choose a niche
2. Find a supplier: When choosing a supplier, you can consider things like:
 - Profit margin: Whether the wholesale price is high enough to make a profit
 - Handling fees: How these might affect your profit margin
 - Shipping: Whether the supplier uses a service that provides tracking numbers
 - Billing: Whether the supplier charges your credit card as soon as you submit an order
3. Build an online store
4. Market your store: You can use social media platforms like Facebook, Instagram, and TikTok
5. Accept orders: Forward orders to the supplier along with payment
6. Analyze and improve: You can look for ways to improve your sales strategy

Some say that dropshipping can be a low-risk business model with lower running costs than other models. This can make it easier to become profitable faster, but the average dropshipper only makes between 10% and 30% compared to 50% to 70% for traditional e-commerce retailers.

What Is Dropshipping and How Does It Work? (2024) - Shopify
May 22, 2024 — Dropshipping is a retail method where an online store doesn't keep its products in stock. Instead, when a...

Shopify

Drop shipping - Wikipedia
Amazon, the online shopping giant, found early success in a dropshipping business model where they could offer over a...

Wikipedia

Drop-Shipping: What you Need to Know Before You Buy or ...
Drop-shipping is when a person, or company, sells goods on their website that they do not keep in stock. When an order is...

State of Michigan

Show all

</> GE

1 | <https://serpapi.com/search.json?q=drop+shipping>

</> Code to integrate

Ruby

```
1 require "serpapi"
2
3 client = SerpApi::Client.new(
4   q: "drop shipping",
5   api_key:
6     "a85853e3401522bd0dbb7b0d6b4901dc8a58",
7 )
8
9 results = client.search
```

{ } JSON Example

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```

    "text_blocks": [
      {
        "type": "paragraph",
        "snippet": "Drop shipping is a business model where a company sells products online without keeping them in stock. Instead, they act as intermediaries, placing orders with suppliers and fulfilling them directly to the customer.", "reference_indexes": [0, 1, 2]
      },
      {
        "type": "heading",
        "snippet": "Here are some steps to start a dropshipping business:", "reference_indexes": [3]
      },
      {
        "type": "list",
        "list": [
          {
            "snippet": "Choose a niche", "reference_indexes": [3]
          }
        ]
      },
      {
        "snippet": "Find a supplier: When choosing a supplier, you can consider factors like quality, price, and delivery time.", "reference_indexes": [3, 6]
      },
      {
        "list": [
          {
            "snippet": "Profit margin: Whether the wholesale price is higher than the selling price.", "reference_indexes": [6]
          }
        ]
      },
      {
        "snippet": "Handling fees: How these might affect your profit margins.", "reference_indexes": [6]
      },
      {
        "snippet": "Shipping: Whether the supplier uses a service that offers free shipping or charges a fee.", "reference_indexes": [6]
      },
      {
        "snippet": "Billing: Whether the supplier charges your credit card or bank account.", "reference_indexes": [6]
      },
      {
        "snippet": "Build an online store", "reference_indexes": [3]
      },
      ...
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    "type": "paragraph",
    "snippet": "Some say that dropshipping can be a low-risk business model because it requires minimal initial investment and can be scaled quickly.", "reference_indexes": [16, 17]
  ],
  "references": [
    {
      "title": "What Is Dropshipping and How Does It Work? (2024) - Shopify", "link": "https://www.shopify.com/blog/what-is-dropshipping#:~:text=Dropshipping is a retail method where a company sells products online without keeping them in stock.", "snippet": "May 22, 2024 - Dropshipping is a retail method where a company sells products online without keeping them in stock.", "source": "Shopify", "index": 0
    },
    {
      "title": "Drop-Shipping: What you Need to Know Before You Buy or Sell - Michigan", "link": "https://www.michigan.gov/consumerprotection/protect-yourself/dropshipping", "snippet": "Drop-shipping is when a person, or company, sells goods or services from another company's website or store.", "source": "State of Michigan", "index": 1
    },
    {
      "title": "Is Dropshipping Legal? A Guide to the Legal Risks (2024) - Shopify", "link": "https://www.shopify.com/blog/is-dropshipping-legal#:~:text=Dropshipping is legal in most countries.", "snippet": "Jun 17, 2024 - Yes, dropshipping is legal. It is a widely used business model.", "source": "Shopify", "index": 2
    },
    ...
  ],
  ...
]
  
```

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❖ AI Overview

Immune-related adverse events (irAEs) are toxicities that can occur when the immune system is activated by immune checkpoint inhibitors (ICIs) in cancer patients. IrAEs can affect multiple organ systems and can range from mild to severe: [🔗](#)

- **Common irAEs:** Gastrointestinal, endocrine, and dermatologic toxicities [🔗](#)
- **Severe irAEs:** Neurotoxicity, cardiotoxicity, and pulmonary toxicity [🔗](#)
- **Cutaneous irAEs:** Maculopapular rash, psoriasisform rash, bullous pemphigoid, vitiligo, pruritus, eczema, and Stevens-Johnson syndrome [🔗](#)

IrAE

Description

IrAE	Description
Gastrointestinal	Diarrhea, gastrointestinal bleeding, and enterocolitis
Pulmonary	Pneumonitis
Hepatic	Hepatitis
Endocrine	Thyroid dysfunction
Dermatologic	Rash, vitiligo, and alopecia

❖ GET

[https://serpapi.com/search.json?
q=immune+related+adverse+events](https://serpapi.com/search.json?q=immune+related+adverse+events)

❖ Code to integrate

Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "immune related adverse events",
5 |   api_key:
6 | "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 | )
8 |
9 | results = client.search
ai_overview = results[:ai_overview]
```

❖ JSON Example



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```

    "text_blocks": [
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      {
        "type": "table",
        "table": [
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            "IrAE",
            "Description"
          ],
          [
            "Gastrointestinal",
            "Diarrhea, gastrointestinal bleeding, and enterocolitis"
          ],
          [
            "Pulmonary",
            "Pneumonitis"
          ],
          [
            "Hepatic",
            "Hepatitis"
          ],
          [
            "Endocrine",
            "Thyroid dysfunction"
          ],
          [
            "Dermatologic",
            "Rash, vitiligo, and alopecia"
          ]
        ],
        "detailed": [
          [
            {
              "snippet": "IrAE"
            },
            {
              "snippet": "Description"
            }
          ],
          [
            {
              "snippet": "Gastrointestinal"
            },
            {
              "snippet": "Diarrhea, gastrointestinal bleeding, and enterocolitis"
            }
          ],
          [
            {
              "snippet": "Pulmonary"
            },
            {
              "snippet": "Pneumonitis"
            }
          ],
          [
            {
              "snippet": "Hepatic"
            },
            {
              "snippet": "Hepatitis"
            }
          ],
          [
            {
              "snippet": "Endocrine"
            },
            {
              "snippet": "Thyroid dysfunction"
            }
          ],
          [
            {
              "snippet": "Dermatologic"
            },
            {
              "snippet": "Rash, vitiligo, and alopecia"
            }
          ]
        ],
        "formatted": [
          {
            "ir_ae": "Gastrointestinal",
            "description": "Diarrhea, gastrointestinal bleeding, and enterocolitis"
          },
          {
            "ir_ae": "Pulmonary",
            "description": "Pneumonitis"
          },
          {
            "ir_ae": "Hepatic",
            "description": "Hepatitis"
          },
          {
            "ir_ae": "Endocrine",
            "description": "Thyroid dysfunction"
          },
          {
            "ir_ae": "Dermatologic",
            "description": "Rash, vitiligo, and alopecia"
          }
        ],
        ...
      },
      ...
      ...
    }
  
```

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◆
Generative AI is experimental.
⋮

Assuming you want to solve the equation $x^2 = 0$, the solution is $\mathbf{x = 0}$

To solve the equation $x^2 = 0$, you need to find the value of x that, when multiplied by itself, equals zero. The only number that satisfies this condition is zero.

$$\begin{aligned}x^2 &= 0 \\ \sqrt{x^2} &= \sqrt{0} \\ x &= 0\end{aligned}$$



↔ GET

```
1 | https://serpapi.com/search.json?
engine=google_ai_overview&page_token=CpFBUnicxZTdcqpIEMev9x329nCTql
yz7VPs30gEmIMamztRfbVTDQ0zPd_0dH_nXerkJ_v7td3-
3e45varU0tas0iujaqzpRWLpjw8aplaj1vHX8P-
ha2cfCfr_2lPQKAkwwxDZ5nB5dbb0f3JprT7s9Dm6ne_vRXM-hOna1W3H-
qAv-
WvE2wiFRmoITK6LgLUWMjx700irldUgMLdxImv3EgmEPKNiPdmxt2IFZau4ZtXYLf-
sdpDq5elyde91Q4lnuQcp2xpq330h0d1pMaDzSHrp3fmU_Nzw7H0BBiChKh-
4SXl9FKlK0WTyPiNm6vUTucIXdSfk09XIVkE8NJ0bgHsx7MXka1HNZcyGMTa05YNc-
unuQzGxmVsT00of0id-
oi8vU3xe9kHQffKKpQo0qWn9DDhMwDiYQF2LqrzqNcl6-
M_z6wEqGFH60zoUckMxmdmsSnRagIYiYGYSQW1gFojsMIgtfjGpxup01UPsMPBUNgEsI-
dkA0kOE0-
b1mDPJbk2D8SHwFMJ0CbuTrLQ1_IazytOSUjjsnTKc0zXfnHh-
DXqpS2imKGbFApH0PVQHiPxRFmLMZ8VkeM8uF1Vn2wQfkeNnq0eAlI6eYC79FyfAFxi-
k7hh8b3mcLc8Usu-mcU0hKF6GsKWeMrU5jQZ3Yu-Z4SFxZ-pvDXG9-
FRn6yD40vh9Erho9dcL-
i56Si5Ke66KCm4efGw37sbbFhBb6RydAH19Yi3N3Y7vraWro3aq0_07jCi5L9kFHji-
bPrm4nE-7k4rvSRs9-1jFmb6Lqw8jbMsNdzWSkek3W5ri6M-
SIaTvnPsjeuV3j4UtcEsuZddQ4Z7KXM2d4axe3aWw6Zlz4mB6d6sb0Qvtutipw3lhZ-
gdEpaR1
```

Ruby

↔ Code to integrate

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   engine: "google_ai_overview",
5 |   page_token:
6 | "CpFBUnicxZTdcqpIEMev9x329nCTqKjgR6qorWGckDHijYfaJ0RuKAA6KSCIK6N2-
7 | yz7VPs30gEmIMamztRfbVTDQ0zPd_0dH_nXerkJ_v7td3-
8 | 3e45varU0tas0iujaqzpRWLpjw8aplaj1vHX8P-
9 | ha2cfCfr_2lPQKAkwwxDZ5nB5dbb0f3JprT7s9Dm6ne_vRXM-hOna1W3H-
10 | qAv-
WvE2wiFRmoITK6LgLUWMjx700irldUgMLdxImv3EgmEPKNiPdmxt2IFZau4ZtXYLf-
sdpDq5elyde91Q4lnuQcp2xpq330h0d1pMaDzSHrp3fmU_Nzw7H0BBiChKh-
4SXl9FKlK0WTyPiNm6vUTucIXdSfk09XIVkE8NJ0bgHsx7MXka1HNZcyGMTa05YNc-
unuQzGxmVsT00of0id-
oi8vU3xe9kHQffKKpQo0qWn9DDhMwDiYQF2LqrzqNcl6-
M_z6wEqGFH60zoUckMxmdmsSnRagIYiYGYSQW1gFojsMIgtfjGpxup01UPsMPBUNgEsI-
dkA0kOE0-
b1mDPJbk2D8SHwFMJ0CbuTrLQ1_IazytOSUjjsnTKc0zXfnHh-
DXqpS2imKGbFApH0PVQHiPxRFmLMZ8VkeM8uF1Vn2wQfkeNnq0eAlI6eYC79FyfAFxi-
k7hh8b3mcLc8Usu-mcU0hKF6GsKWeMrU5jQZ3Yu-Z4SFxZ-pvDXG9-
FRn6yD40vh9Erho9dcL-
i56Si5Ke66KCm4efGw37sbbFhBb6RydAH19Yi3N3Y7vraWro3aq0_07jCi5L9kFHji-
bPrm4nE-7k4rvSRs9-1jFmb6Lqw8jbMsNdzWSkek3W5ri6M-
SIaTvnPsjeuV3j4UtcEsuZddQ4Z7KXM2d4axe3aWw6Zlz4mB6d6sb0Qvtutipw3lhZ-
gdEpaR1",
    api_key:
    "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
)
```

```
results = client.search
ai_overview = results[:ai_overview]
```

↔ JSON Example

```
{
  ...
  "ai_overview": {
    "text_blocks": [
      {
        "type": "paragraph",
        "snippet": "Assuming you want to solve the equation  $x^{2}=0$ , the solution is  $x = 0$ .  
To solve the equation  $x^2 = 0$ , you need to find the value of  $x$  that, when multiplied by itself, equals zero. The only number that satisfies this condition is zero."
      },
      {
        "type": "paragraph",
        "snippet": "To solve the equation  $x^2 = 0$ , you need to find the value of  $x$  that, when multiplied by itself, equals zero. The only number that satisfies this condition is zero."
      }
    ]
  }
}
```

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The root mean square (rms) velocity of hydrogen will double at a temperature of **819°C** if the pressure remains unchanged: [🔗](#)

Step

- 1 Let v_1 be the rms velocity at standard temperature and pressure (S.T.P.)
- 2 Let v_2 be the rms velocity at unknown temperature T_2
- 3 $v \propto \sqrt{T}$
- 4 $v_2^1/v_2^2 = T_1/T_2$
- 5 $T_2 = (T_1)(v_2/v_1)^2$
- 6 $T_2 = (273)(2)^2$
- 7 $T_2 = 1092K$
- 8 $T_2 = (1092 - 273) = 819°C$

Explanation[GET](#)

```
1 | https://serpapi.com/search.json?
q=at+what+temperature+pressure+remaining+unchanged
```

[Code to integrate](#)

Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "at what temperature pressure remaining unchanged",
5 |   api_key:
6 | "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 | )
8 |
9 | results = client.search
ai_overview = results[:ai_overview]
```

[JSON Example](#)

```
{
  ...
  "ai_overview": {
    "text_blocks": [
      {
        "type": "paragraph",
        "snippet": "The root mean square (rms) velocity of hydrogen will dou",
        "snippet_highlighted_words": [
          "819°C"
        ]
      },
      {
        "type": "table",
        "table": [
          [
            "Step",
            "Explanation"
          ],
          [
            "1",
            "Let v_{1} be the rms velocity at standard temperature and pressu"
          ],
          [
            "2",
            "Let v_{2} be the rms velocity at unknown temperature T_{2}"]
        ],
        ...
      ],
      "detailed": [
        [
          {
            "snippet": "Step"
          },
          {
            "snippet": "Explanation"
          }
        ],
        [
          {
            "snippet": "1"
          },
          {
            "snippet": "Let v_{1} be the rms velocity at standard temperatu"
          },
          "snippet_latex": [
            "v_{1}"
          ]
        ],
        [
          {
            "snippet": "2"
          },
          {
            "snippet": "Let v_{2} be the rms velocity at unknown temperatur"
          },
          "snippet_latex": [
            "v_{2}",
            "T_{2}"
          ]
        ],
        ...
      ],
      "formatted": [
        {
          "step": "1",
          "explanation": "Let v_{1} be the rms velocity at standard tempere"
        },
        {
          "step": "2",
          "explanation": "Let v_{2} be the rms velocity at unknown tempere"
        },
        ...
      ]
    ]
  }
}
```

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[AI Overview](#)

The root mean square (RMS) velocity of a gas doubles when the temperature of the gas quadruples. This is because the RMS velocity is directly proportional to the square root of the gas's temperature. [🔗](#)

[Explanation](#) [🔗](#)

- The RMS velocity is the square root of the average of the squares of the speeds of each molecule in a gas.
- The RMS velocity is a key concept in understanding how gas molecules behave.
- The RMS velocity of a gas is directly proportional to the square root of the gas's temperature in Kelvin (T).
- This relationship can be expressed mathematically as $v_{rms} \propto \sqrt{T}$.
- To double the RMS velocity, the temperature must quadruple.

[GET](#)

```
1 | https://serpapi.com/search.json?
q=why+rms+velocity+of+a+gas+doubles
```

[Code to integrate](#)

Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "why rms velocity of a gas doubles",
5 |   api_key:
6 | "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 | )
8 |
9 | results = client.search
ai_overview = results[:ai_overview]
```

[JSON Example](#)

```
{
  ...
  "ai_overview": {
    "text_blocks": [
      {
        "type": "paragraph",
        "snippet": "The root mean square (RMS) velocity of a gas doubles when the RMS velocity is directly proportional to the square root of the temperature. This is because the RMS velocity is directly proportional to the square root of the gas's temperature in Kelvin (T).",
        "snippet_highlighted_words": [
          "the RMS velocity is directly proportional to the square root of the temperature"
        ]
      },
      {
        "type": "paragraph",
        "snippet": "Explanation"
      },
      {
        "type": "list",
        "list": [
          {
            "snippet": "The RMS velocity is the square root of the average of the squares of the speeds of each molecule in a gas."
          },
          {
            "snippet": "The RMS velocity is a key concept in understanding how gas molecules behave."
          },
          {
            "snippet": "The RMS velocity of a gas is directly proportional to the square root of the gas's temperature in Kelvin (T).",
            "snippet_latex": [
              "T"
            ]
          },
          {
            "snippet": "This relationship can be expressed mathematically as v_{rms} \propto \sqrt{T}.",
            "snippet_latex": [
              "v_{rms} \propto \sqrt{T}"
            ]
          },
          {
            "snippet": "To double the RMS velocity, the temperature must quadruple."
          }
        ],
        ...
      },
      ...
    ]
  }
}
```

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The Android operating system (OS) works in several ways, including:

Multi-user Linux system

Each app is a different user, with its own Linux user ID and virtual machine (VM). This isolates apps from each other and keeps the system secure.

Open-source

Android is built on an open-source Linux kernel, which allows developers to access and modify the source code.

User interface

Android's default user interface (UI) uses direct manipulation inputs like swiping, tapping, and pinching. Users can customize the UI with themes, wallpapers, widgets, and launchers.

Battery usage

Android saves battery life by suspending apps that aren't in use.

Multitasking

Android supports multitasking, allowing users to run multiple apps at once and switch between them.

Google Play Store

Users can access the Google Play Store to download apps, games, movies, music, and books.

Google Assistant

Android devices come with Google Assistant, a virtual assistant powered by AI.

Digital Wellbeing

Digital Wellbeing provides tools to help users understand how they use their phone, such as a dashboard that shows screen time, notifications, and more.

Camera features

Android devices have camera features like Google Lens, which can translate text, identify plants and animals, and more.

You can also watch this video to learn more about Android:

**GET**

```
1 | https://serpapi.com/search.json?q=how+does+android+work
```

Code to integrate

Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "how does android work",
5 |   api_key:
6 | "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 | )
8 |
9 | results = client.search
ai_overview = results[:ai_overview]
```

JSON Example

```
{
  ...
  "ai_overview": {
    "text_blocks": [
      ...
      {
        "type": "paragraph",
        "snippet": "You can also watch this video to learn more about Android",
        "video": {
          "link": "https://www.youtube.com/watch?v=Si2UR2gCq9M&t=92",
          "thumbnail": "https://i.ytimg.com/vi/Si2UR2gCq9M/mqdefault.jpg?sqp=source%3DGoogle+Open+Source",
          "source": "Google Open Source",
          "date": "Feb 9, 2023"
        }
      }
      ...
    ],
    ...
  }
}
```

Example with expandable sections

AI Overview

Dropshipping is a retail model where an online store doesn't keep products in stock, but instead forwards orders to a supplier who then ships the products directly to the customer. This model is popular with business owners because it outsources inventory management and order fulfillment, and can be profitable with lower running costs than other business models.

Starting a Dropshipping Business

Steps for launching a dropshipping venture

Here are some steps to start a dropshipping business:

1. Choose a business concept
2. Select products to sell
3. Choose suppliers
4. Build an online store
5. Register your business
6. Market your business and products

Dropshipping Suppliers

Examples of companies that offer dropshipping services

Protecting Yourself as a Buyer

Tips for avoiding dropshipping scams

Generative AI is experimental.

GET

```
1 | https://serpapi.com/search.json?q=drop+shipping
```

Code to integrate

Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "drop shipping",
5 |   api_key:
6 | "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 | )
8 |
9 | results = client.search
ai_overview = results[:ai_overview]
```

JSON Example

🔗

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```

    "text_blocks": [
      {
        "type": "paragraph",
        "snippet": "Dropshipping is a retail model where an online store does not keep products in stock. Instead, it sources products from suppliers and ships them directly to customers. This model allows for lower overhead costs compared to traditional brick-and-mortar retailing. Dropshippers often use platforms like Shopify or eBay to manage their operations. The process involves finding suppliers, setting up payment terms, and managing shipping logistics. It's a popular business model for entrepreneurs looking to start a business with minimal initial investment."}
      ],
      "reference_indexes": [0, 4, 7, 11]
    },
    {
      "type": "expandable",
      "title": "Starting a Dropshipping Business",
      "subtitle": "Steps for launching a dropshipping venture",
      "text_blocks": [
        {
          "type": "paragraph",
          "snippet": "Here are some steps to start a dropshipping business:"}
        ],
        {
          "type": "list",
          "list": [
            {
              "snippet": "Choose a business concept"
            },
            {
              "snippet": "Select products to sell"
            },
            {
              "snippet": "Choose suppliers"
            },
            {
              "snippet": "Build an online store"
            },
            {
              "snippet": "Register your business"
            },
            {
              "snippet": "Market your business and products"
            }
          ]
        }
      ],
      "reference_indexes": [5]
    },
    {
      "type": "expandable",
      "title": "Dropshipping Suppliers",
      "subtitle": "Examples of companies that offer dropshipping services",
      "text_blocks": [
        {
          "type": "paragraph",
          "snippet": "Some dropshipping suppliers include:"}
        ],
        {
          "type": "list",
          "list": [
            {
              "snippet": "Spocket"
            },
            {
              "snippet": "AliExpress Dropshipping"
            },
            {
              "snippet": "Modalyst"
            },
            {
              "snippet": "SaleHoo"
            },
            {
              "snippet": "Doba"
            },
            {
              "snippet": "Wholesale2B"
            },
            {
              "snippet": "Worldwide Brands",
              "reference_indexes": [8]
            }
          ]
        }
      ],
      "reference_indexes": [8]
    },
    ...
  ],
  "thumbnail": "https://serpapi.com/searches/66c53cd315aff0a2878caf0/image",
  "references": [
    {
      "title": "What Is Dropshipping and How Does It Work? (2024) - Shopify",
      "link": "https://www.shopify.com/blog/what-is-dropshipping#:~:text=Dropshipping%20is%20a%20retail%20method%20where%20an%20online%20store%20does%20not%20keep%20products%20in%20stock%20and%20instead%20sources%20products%20from%20suppliers%20and%20ships%20them%20directly%20to%20customers%20.",
      "snippet": "May 22, 2024 – Dropshipping is a retail method where an online store does not keep products in stock and instead sources products from suppliers and ships them directly to customers. This model allows for lower overhead costs compared to traditional brick-and-mortar retailing. Dropshippers often use platforms like Shopify or eBay to manage their operations. The process involves finding suppliers, setting up payment terms, and managing shipping logistics. It's a popular business model for entrepreneurs looking to start a business with minimal initial investment.",
      "source": "Shopify",
      "index": 0
    },
    {
      "title": "Drop shipping - Wikipedia",
      "link": "https://en.wikipedia.org/wiki/Drop_shipping#:~:text=Amazon%20is%20one%20of%20the%20largest%20dropshipping%20platforms%20in%20the%20world%20and%20has%20been%20successful%20in%20the%20industry%20since%20the%20early%202000s%20.",
      "snippet": "Amazon, the online shopping giant, found early success in dropshipping. The company began selling products from third-party sellers in the late 1990s and has since become one of the largest dropshipping platforms in the world. Other major players in the industry include Wish, AliExpress, and eBay. Dropshipping has become a popular business model for entrepreneurs looking to start a business with minimal initial investment. It involves finding suppliers, setting up payment terms, and managing shipping logistics. The process can be streamlined using various tools and platforms, such as Shopify or WooCommerce, which provide integrated solutions for e-commerce businesses. Dropshipping has also become a popular way for individuals to earn extra income by reselling products they purchase from suppliers at a profit. The success of dropshipping has led to the emergence of many new platforms and tools designed to make the process easier and more efficient. Overall, dropshipping has become a significant part of the modern e-commerce landscape, providing a low-cost entry point for entrepreneurs and individuals looking to start a business online.", "source": "Wikipedia", "index": 1
    },
    {
      "title": "What Is dropshipping? How does it work in 2024? - Sell on Amazon",
      "link": "https://sell.amazon.com/learn/what-is-dropshipping#:~:text=Dropshipping%20is%20a%20business%20model%20where%20a%20seller%20buys%20products%20from%20suppliers%20and%20sells%20them%20to%20customers%20without%20keeping%20any%20inventory%20on%20hand%20or%20in%20a%20warehouse%20.",
      "snippet": "For Amazon sellers, using a dropshipping service is generally a cost-effective way to sell products without having to invest in inventory or warehousing. This can be particularly useful for small businesses or individuals who want to start an e-commerce business without a large initial investment. However, it's important to note that dropshipping may not be suitable for all types of products or businesses. Some products may require specific handling or storage requirements that cannot be easily accommodated through a dropshipping service. Additionally, dropshipping may not be the best option for businesses that require a high level of control over their supply chain or product quality. In general, dropshipping is a popular business model for entrepreneurs looking to start a business with minimal initial investment and low overhead costs.", "source": "Sell on Amazon", "index": 2
    },
    ...
  ],
  "reference_indexes": [2]
}

```

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 - Questions And Answers
 - Recipes Results
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 - Refine Search Filters
 - Refine This Search
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 - Related Questions
 - Related Searches
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Example of paragraph with `snippet_links`**AI Overview**

Ruby is an open-source, dynamically typed, interpreted programming language that prioritizes simplicity and productivity. It's known for its elegant and readable syntax, making it relatively easy to learn and use. Ruby is often used for web development, particularly with the popular [Ruby on Rails](#) framework, but also finds applications in data analysis and other areas.

Here's a more detailed look:**Object-Oriented:**

Ruby is a true object-oriented language, meaning everything is treated as an object, which promotes code organization and reusability.

Interpreted:

Ruby is an interpreted language, meaning it's executed line by line without needing to be compiled into machine code beforehand.

GET

```
1 | https://serpapi.com/search.json?q=explain+ruby+language
```

Code to integrate

Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "explain ruby language",
5 |   api_key:
6 |   "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 | )
8 |
9 | results = client.search
ai_overview = results[:ai_overview]
```

JSON Example

```
{
  ...
  "ai_overview": {
    "text_blocks": [
      {
        "type": "paragraph",
        "snippet": "Ruby is an open-source, dynamically typed, interpreted pr",
        "snippet_highlighted_words": [
          "an open-source, dynamically typed, interpreted programming languag
        ],
        "snippet_links": [
          {
            "text": "Ruby on Rails",
            "link": "https://www.google.com/search?sc_a_esp=45c8bf4228d081b3&t
          },
          ...
        ],
        "reference_indexes": [
          0,
          4,
          7,
          11
        ]
      },
      ...
    ],
    ...
  }
}
```

Example of list with `snippet_links`**Key Features:****Object-Oriented:**

Everything in Ruby is treated as an object, with features like single inheritance, mixins, and metaclasses.

Dynamic Typing:

You don't need to declare the data type of a variable, making it more flexible.

Interpreted:

Ruby code is executed by an interpreter, rather than being compiled into machine code.

Elegant Syntax:

Ruby's syntax is designed to be readable and easy to understand, often described as "English-like".

Open Source:

Ruby is free to use and distribute.

Focus on Productivity:

Ruby emphasizes developer productivity with its concise syntax and powerful features.

Common Uses:

- **Web Development:** Ruby on Rails, a popular web framework, has made Ruby a dominant force in web application development.

GET

```
1 | https://serpapi.com/search.json?q=explain+ruby+language
```

Code to integrate

Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "explain ruby language",
5 |   api_key:
6 |   "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 | )
8 |
9 | results = client.search
ai_overview = results[:ai_overview]
```

JSON Example

↗

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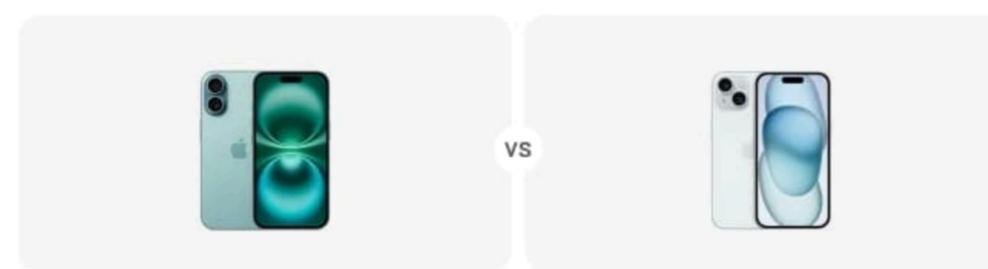


/

```

"text_blocks": [
  ...
  {
    "type": "heading",
    "snippet": "Key Features:"
  },
  {
    "type": "list",
    "list": [
      {
        "title": "Object-Oriented:",
        "link": "https://www.google.com/search?scq_esv=abfa54d360d79d5a&snippe...",
        "snippet": "Everything in Ruby is treated as an object, with feat...",
        "snippet_links": [
          {
            "text": "metaclasses",
            "link": "https://www.google.com/search?scq_esv=abfa54d360d79d5a&snippe...",
            ...
          }
        ],
        "reference_indexes": [
          1
        ]
      },
      {
        "title": "Dynamic Typing:",
        "link": "https://www.google.com/search?scq_esv=abfa54d360d79d5a&snippe...",
        "snippet": "You don't need to declare the data type of a variable",
        "reference_indexes": [
          1,
          16
        ]
      },
      ...
    ],
    ...
  },
  ...
]
  
```

Example with products comparison



Apple iPhone 16 >

\$0 · \$22mo × 36

4.7 ★★★★★ (10K)

AI Overview

The iPhone 16 has a more vibrant pink color than the iPhone 15. The iPhone 16 also features an action button, camera control, and fast charging. The iPhone 15 features a Dynamic Island and USB-C charging.

Camera

The iPhone 16 and iPhone 15 have the same front and rear camera resolution, lens types, and digital zoom.

Front camera resolution: 12 MP

Front camera resolution: 12 MP

Rear camera resolution: 48 MP

Rear camera resolution: 48 MP

Lens type: Ultra wide angle, telephoto

Lens type: Ultra wide angle, telephoto

Design

The iPhone 16 and iPhone 15 have the same height, width, and depth.

Height: 5.81 inches

Height: 5.81 inches

Width: 2.82 inches

Width: 2.82 inches

Depth: 0.31 inches

Depth: 0.31 inches

Software

The iPhone 16 and iPhone 15 both feature Siri and Apple Pay.

Operating system: iOS 18

Operating system: iOS 17

QuickType keyboard support: Yes

QuickType keyboard support: Yes

Security devices: Face recognition

Security devices: Face recognition

GET

https://serpapi.com/search.json?q=iphone+16+vs+15

Code to integrate

Ruby

```

1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "iphone 16 vs 15",
5 |   api_key:
6 |   "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 | )
8 |
9 | results = client.search
ai_overview = results[:ai_overview]
  
```

JSON Example



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 - Questions And Answers
 - Recipes Results
 - Refine By
 - Refine Search Filters
 - Refine This Search
 - Related Brands
 - Related Categories
 - Related Questions
 - Related Searches
 - Scholarly Articles
 - Short Videos
 - Showtimes Results
 - Spell Check
 - Sports Results
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 - Top Insights
 - Top Sights
 - Top Stories
 - Twitter Results
 - Visual Stories
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- Google Ads Transparency API
- Google AI Mode API
- Google AI Overview API

```

"products": [
  {
    "thumbnail": "https://serpapi.com/searches/68496f27fe1c6b10a13f4f91/i",
    "title": "Apple iPhone 16",
    "rating": "4.7",
    "reviews": "10K",
    "price": "$0",
    "extracted_price": 0,
    "installments": "• $22mo × 36"
  },
  {
    "thumbnail": "https://serpapi.com/searches/68496f27fe1c6b10a13f4f91/i",
    "title": "Apple iPhone 15",
    "rating": "4.7",
    "reviews": "28K",
    "price": "$0",
    "extracted_price": 0,
    "installments": "• $29mo × 24"
  },
  "text_blocks": [
    {
      "type": "paragraph",
      "snippet": "The iPhone 16 has a more vibrant pink color than the iPhone 15, which is available in white, black, and blue. Both phones feature a similar design with a flat edge-to-edge display and a single camera system at the back."}
  ],
  "reference_indexes": [
    0,
    1,
    4,
    14,
    13,
    16,
    17
  ],
  {
    "type": "expandable",
    "title": "Camera",
    "text_blocks": [
      {
        "type": "paragraph",
        "snippet": "The iPhone 16 and iPhone 15 have the same front and rear cameras."}
    ],
    "reference_indexes": [
      5,
      6,
      12,
      13
    ]
  },
  {
    "type": "expandable",
    "title": "Design",
    "text_blocks": [
      {
        "type": "paragraph",
        "snippet": "The iPhone 16 features an advanced dual-camera system with a larger sensor and improved optics compared to the iPhone 15."}
    ],
    "reference_indexes": [
      5,
      6
    ]
  },
  {
    "type": "comparison",
    "product_labels": [
      "Apple iPhone 16",
      "Apple iPhone 15"
    ],
    "comparison": [
      {
        "feature": "Front camera resolution",
        "values": [
          "12 MP",
          "12 MP"
        ]
      },
      {
        "feature": "Rear camera resolution",
        "values": [
          "48 MP",
          "48 MP"
        ]
      },
      {
        "feature": "Lens type",
        "values": [
          "Ultra wide angle, telephoto",
          "Ultra wide angle, telephoto"
        ]
      }
    ],
    ...
  },
  {
    "type": "expandable",
    "title": "Design",
    "text_blocks": [
      {
        "type": "paragraph",
        "snippet": "The iPhone 16 and iPhone 15 have the same height, width, and depth."}
    ],
    "reference_indexes": [
      5,
      6
    ]
  },
  {
    "type": "expandable",
    "title": "Performance",
    "text_blocks": [
      {
        "type": "paragraph",
        "snippet": "The iPhone 16 features a color-infused glass back in white, black, and blue."}
    ],
    "reference_indexes": [
      5,
      6
    ]
  },
  {
    "type": "comparison",
    "product_labels": [
      "Apple iPhone 16",
      "Apple iPhone 15"
    ],
    "comparison": [
      {
        "feature": "Height",
        "values": [
          "5.81 inches",
          "5.81 inches"
        ]
      }
    ],
    ...
  }
]

```

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2.82 entries

```
[
  {
    "feature": "Depth",
    "values": [
      "0.31 inches",
      "0.31 inches"
    ]
  },
  ...
],
"references": [
  {
    "title": "Pink Apple iPhone 16 Plus vs iPhone 15 Plus Unboxing ... -",
    "link": "https://www.instagram.com/superscientific/reel/DAJ71gcSAKn/#",
    "snippet": "Sep 20, 2024 - The iPhone 16 definitely has the more vibr",
    "source": "Instagram · superscientific",
    "index": 0
  },
  {
    "title": "Pink Apple iPhone 16 Plus vs iPhone 15 Plus Unboxing ... -",
    "link": "https://www.instagram.com/superscientific/reel/DAJ71gcSAKn/#",
    "snippet": "Sep 20, 2024 - Which smartphone has the better Pink? The",
    "source": "Instagram",
    "index": 1
  },
  {
    "title": "Iphone 16 vs 15 plus, which one to buy? : r/iphone15 - Redd",
    "link": "https://www.reddit.com/r/iphone15/comments/1gn3qng/iphone_16",
    "snippet": "Nov 9, 2024 - The 16 was much more expensive. Besides, I",
    "source": "Reddit · r/iphone15",
    "index": 2
  },
  ...
],
...
]
```

Example with an extra request required

Google can return AI Overview content through a separate request instead of directly in a response. 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 resulting JSON structure is the same as the above examples.

The rendered HTML will show "Can't generate an AI overview right now. Try again later." — this is expected behaviour and can be ignored.

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

GET

```
1 | https://serpapi.com/search.json?
q=how+does+art+work+in+android
```

Code to integrate

Ruby

```
1 | require "serpapi"
2 |
3 | client = SerpApi::Client.new(
4 |   q: "how does art work in android",
5 |   api_key:
6 | "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 |
8 |
9 | results = client.search
ai_overview = results[:ai_overview]
```

JSON Example

```
{
  ...
  "ai_overview": {
    "page_token": "rWmjgXictZPdkqI4FMcv90nWvWBUT00e7SpqKIBqHL8ifuENhRADgnwFj",
    "serpapi_link": "https://serpapi.com/search.json?engine=google_ai_overvie"
  },
  ...
}
```

Example with error message

i Can't generate an AI overview right now. Try again later.

GET

```
1 | https://serpapi.com/search.json?q=drop+shipping
```

Code to integrate

Ruby

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- [Product Sites](#)
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- [Refine Search Filters](#)
- [Refine This Search](#)
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- [Related Categories](#)
- [Related Questions](#)
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- [Spell Check](#)
- [Sports Results](#)
- [Things To Know](#)
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```
client = SerpApiClient()
4 q: "drop shipping",
5 api_key:
6 "a85853e3401522bd0dbb7b0d6b4901dc8a5849baae4354be6cea1dd229296958"
7 )
8
9 results = client.search
ai_overview = results[:ai_overview]
```

 [JSON Example](#)

```
{
  ...
  "ai_overview": {
    "error": "Can't generate an AI overview right now. Try again later."
  },
  ...
}
```



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```
{
  ...
  "ai_overview": {
    // When separate request is required for the AI Overview content
    "page_token": "String - Token for the AI Overview block",
    "serpapi_link": "String - URL to the corresponding SerpApi search",
    // When the AI Overview block includes products
    "products": [
      {
        "thumbnail": "String - URL to the product thumbnail image",
        "title": "String - Title of the product",
        "rating": "String - Product rating",
        "reviews": "String - Number of reviews for the product",
        "price": "String - Price of the product",
        "extracted_price": "Number - Extracted price value from the product",
        "installments": "String - Installment information for the product"
      },
      ...
    ],
    // When the AI Overview block is embeded in the search results
    "text_blocks": [
      {
        "type": "String - Type of the text block. Can be 'heading', 'paragraph', 'list', 'expandable', or 'comparison'",
        "snippet": "String - Snippet of the text block",
        "snippet_latex": "Array of strings - LaTeX equations in the snippet",
        "snippet_highlighted_words": "Array of strings - Highlighted words in the snippet",
        "snippet_links": {
          "text": "String - Text content of inline link",
          "link": "String - URL of inline link"
        },
        "reference_indexes": "Array of integers - Indexes of the references in the root 'references' field",
        "thumbnail": "String - URL to the thumbnail image",
        "video": {
          "link": "String - URL to the video",
          "thumbnail": "String - URL to the thumbnail image",
          "source": "String - Source of the video",
          "date": "String - Date of the video"
        },
        // Only for 'list' type
        "list": [
          {
            "title": "String - Title of the list item",
            "link": "String - Link URL of the list item title",
            "snippet": "String - Snippet of the list item",
            "snippet_latex": "Array of strings - LaTeX equations in the snippet",
            "reference_indexes": "Array of integers - Indexes of the references in the root 'references' field",
            "thumbnail": "String - URL to the thumbnail image",
            // Nested lists
            "list": [
              {
                "snippet": "String - Snippet of the nested list item",
                "reference_indexes": "Array of integers - Indexes of the references in the root 'references' field",
              },
              ...
            ],
            ...
          ],
          ...
        ],
        // Only for `table` type
        "table": [
          [
            "String - Table cell snippet",
            ...
          ],
          ...
        ],
        ...
      ],
      ...
    ],
    ...
  ],
    ...
  ],
    ...
}
  ...
  "error": "String - Error message if the AI Overview results are not available",
  ...
}
```

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Local Ads

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Local Pack

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News Results

Nutrition Information

Organic Results

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